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(別紙)

1 発電所の運転状況【自動停止号機数：10基】

○東京電力(株)福島第一原子力発電所(福島県双葉郡大熊町及び双葉町)

(1) 運転状況

1号機(46万kW)(自動停止)

2号機(78万4千kW)(自動停止)

3号機(78万4千kW)(自動停止)

4号機(78万4千kW)(定検により停止中)

5号機(78万4千kW)(定検により停止中、3月20日14:30冷温停止)

6号機(110万kW)(定検により停止中、3月20日19:27冷温停止)

(2) モニタリングの状況

別添参照

(3) 主なプラントパラメーター(4月15日6:00現在)

	1号機	2号機	3号機	4号機	5号機	6号機
原子炉圧力*1 [MPa]	0.529(A) 1.054(B)	0.083(A) 0.078(D)	0.082(A) 0.016(C)	—	0.104	0.110
原子炉格納容器圧力 (D/W) [kPa]	185	90	104.3	—	—	—
原子炉水位*2 [mm]	-1550(A) -1550(B)	-1450(A) 不明(B)	-1800(A) -2250(B)	—	1701	2315
原子炉格納容器内 S/C水温 [°C]	—	—	—	—	—	—
原子炉格納容器内 S/C圧力 [kPa]	165	計器不良	166.4	—	—	—
使用済燃料プール 水温度 [°C]	計器不良	66.0	計器不良	計器不良	35.8	24.5
備考	4/15 03:00 現在の値	4/15 00:00 現在の値	4/15 00:00 現在の値	4/15 現在	4/15 06:00 現在の値	4/15 06:00 現在の値

*1: 絶対圧に換算

*2: 燃料頂部からの数値

(4) 各プラントの状況

< 1号機関係 >

- ・原子力災害対策特別措置法第15条（非常用炉心冷却装置注水不能）通報（3月11日16:36）
- ・ベント開始（3月12日10:17）
- ・1号機の原子炉圧力容器内に消火系ラインを用いて海水注入開始（3月12日20:20）→一時中断（3月14日1:10）
- ・1号機で爆発音。（3月12日15:36）
- ・消火系に加え、給水系を使うことにより炉心への注水量を増量（ $2\text{m}^3/\text{h}$ → $18\text{m}^3/\text{h}$ ）（3月23日2:33）。その後、給水系のみに切替（約 $11\text{m}^3/\text{h}$ ）（3月23日9:00）
- ・中央制御室の照明復帰（3月24日11:30）
- ・原子炉圧力容器へ淡水注入開始。（3月25日15:37）
- ・タービン建屋地下の溜まり水を測定した結果、主な核種として ^{131}I （ヨウ素）が $2.1 \times 10^6 \text{Bq}/\text{cm}^3$ 、 ^{137}Cs （セシウム）が $1.8 \times 10^6 \text{Bq}/\text{cm}^3$ 、検出された。
- ・消防ポンプによる淡水の原子炉圧力容器への注入を仮設電動ポンプに切り替え（3月29日8:32）
- ・タービン建屋地下の溜まり水を、3月24日17時頃から復水器へ移送開始。復水器の水位が満水に近いことが確認されたため、復水器への排水を停止（3月29日7:30）。タービン建屋地下の溜まり水を復水器へ移送する準備のため、復水貯蔵タンクの水を、サプレッションプール水サージタンク（A）へ移送開始（3月31日12:00）し、移送先をサプレッションプール水タンクへ（B）に切り替えた後（3月31日15:25）、移送を再開し、終了した（4月2日15:26）
- ・使用済燃料プールについて、コンクリートポンプ車が約90t放水（淡水）（3月31日13:03～16:04）。コンクリートポンプ車による放水位置の確認のため、試験放水（4月2日17:16～17:19）
- ・タービン建屋の一部の照明が点灯（4月2日）
- ・原子炉圧力容器への淡水の注水に用いている電動ポンプの電源を仮設電源から外部電源に切り替えるため、一時的に消防ポンプに切り替えて原子炉へ淡水の注入を実施（4月3日10:42～11:52）
- ・原子炉圧力容器への淡水注入を外部電源に切り替え（4月3日12:02）
- ・タービン建屋地下の溜まり水を復水器へ移送する準備のため、復水器の水を復水貯蔵タンクへ移送開始（4月3日13:55）
- ・原子炉格納容器内での水素燃焼の可能性を下げることを目的として、原子炉格納容器への窒素封入操作開始（4月6日22:30）
- ・原子炉格納容器への窒素封入開始を確認（4月7日1:31）
- ・原子炉格納容器への窒素封入を高純度窒素発生装置に切替（4月9日4:10）
- ・復水器から復水貯蔵タンクへの移送完了（4月10日09:30）

- ・地震発生により外部電源が喪失するとともに原子炉圧力容器への淡水注入及び原子炉格納容器への窒素封入が停止（4月11日17:16頃）
- ・外部電源復旧（4月11日17:56）
- ・原子炉圧力容器への淡水注水再開（4月11日18:04）
- ・原子炉格納容器への窒素封入を開始（4月11日23:34）
- ・白煙の吐出確認できず（4月15日6:30現在）
- ・原子炉圧力容器へ淡水注入中（4月15日8:00現在）

<2号機関係>

- ・原子力災害対策特別措置法第15条（非常用炉心冷却装置注水不能）通報（3月11日16:36）
- ・ベント開始（3月13日11:00）
- ・3号機の建屋の爆発に伴い、原子炉建屋ブローアウトパネル開放（3月14日11:00過ぎ）
- ・原子炉圧力容器の水位が低下傾向（3月14日13:18）。原子力災害対策特別措置法第15条事象（原子炉冷却機能喪失）である旨、受信（3月14日13:49）
- ・原子炉圧力容器内に消火系ラインを用いて海水注入作業開始（3月14日16:34）
- ・原子炉圧力容器の水位が低下傾向（3月14日22:50）
- ・ベント開始（3月15日0:02）
- ・2号機で爆発音するとともに、サブプレッションプール（圧力抑制室）の圧力低下（3月15日6:10）。同室に異常が発生したおそれ（3月15日6:20頃）
- ・外部送電線から予備電源変電設備までの受電を完了し、そこから負荷側へのケーブル敷設を実施（3月19日13:30）
- ・使用済燃料プールに海水を40t注入（冷却系配管に消防車のポンプを接続）（3月20日15:05～17:20）
- ・パワーセンター受電（3月20日15:46）
- ・白煙が発生（3月21日18:22）
- ・白煙はほとんど見えない程度に減少（3月22日7:11現在）
- ・使用済燃料プールに海水を18t注入（3月22日16:07～17:01）
- ・使用済燃料プールに、使用済燃料プール冷却系を用いて海水を注入（3月25日10:30～12:19）
- ・原子炉圧力容器への淡水注入開始（3月26日10:10）
- ・中央制御室の照明復帰（3月26日16:46）
- ・消防ポンプによる淡水の原子炉圧力容器への注入を仮設電動ポンプに切り替え（3月27日18:31）
- ・3月27日に東京電力(株)が発表した福島第一原子力発電所2号機タービ

- ン建屋地下階溜まり水の測定結果について、 ^{134}I (ヨウ素) の測定値に誤りがあるとの判断を踏まえた再度の採取及び分析・評価の結果、 ^{134}I (ヨウ素) を含むガンマ核種の濃度については、検出限界値未満であることの報告 (3月28日0:07)
- ・消防ポンプによる海水の使用済燃料プールへの注入を仮設電動ポンプによる淡水に切り替え注入 (3月29日16:30~18:25)
 - ・30日9:25より使用済燃料プールへの注入をしていたところ、仮設電動ポンプの不調が同日9:45に確認されたため、消防ポンプによる切り替えを行ったが、ホースの亀裂が確認 (3月30日12:47、13:10) されたため、注入を中断。淡水注水を再開 (3月30日19:05~23:50)
 - ・使用済燃料プールに、使用済燃料冷却系を用いて仮設電動ポンプにより淡水を約70t注入 (4月1日14:56~17:05)
 - ・タービン建屋地下の溜まり水を復水器へ移送する準備のため、復水貯蔵タンクの水をサプレッションプール水サージタンクへ移送 (3月29日16:45~4月1日11:50)
 - ・取水口付近にある電源ケーブルを収めているピット内に、1,000mSv/hを超える水が溜まっていること及びピット側面のコンクリート部分に長さ約20cmの亀裂があり、当該部分より、水が海に流出していることを確認 (4月2日9:30頃)。止水処置のため、コンクリートを注入 (4月2日16:25、19:02)
 - ・タービン建屋地下の溜まり水を復水器へ移送する準備のため、復水器の水を復水貯蔵タンクへ移送開始 (4月2日17:10)
 - ・トレンチ立坑及びタービン建屋地下1階の水位を監視するためのカメラを設置 (4月2日)
 - ・タービン建屋の一部の照明が点灯 (4月2日)
 - ・原子炉圧力容器への淡水の注水に用いている電動ポンプの電源を仮設電源から外部電源に切り替えるため、一時的に消防ポンプに切り替えて原子炉へ淡水の注入を実施 (4月3日10:22~12:06)
 - ・原子炉圧力容器への淡水注入を外部電源に切り替え (4月3日12:12)
 - ・2号機バースクリーン近傍にあるピット内に溜まっている水の海水への流出を防止する措置として、取水電源トレンチの天端を破碎し、おがくず (3kg/袋) 20袋、高分子吸収材 (100g/袋) 80袋、裁断処理した新聞紙 (大きいゴミ袋) 3袋を投入 (4月3日13:47~14:30)
 - ・トレーサー (乳白色の入浴剤) 約13kgを海水配管トレンチ立坑から投入 (4月4日7:08~7:11)
 - ・使用済燃料プールに、使用済燃料冷却系を用いて仮設電動ポンプによる淡水 (約70t) を注入 (4月4日11:05~13:37)
 - ・2号機バースクリーン近傍のピット周辺に2箇所穴を開け、トレーサーを注入し、亀裂部から海に流出していることを確認 (4月5日14:15)。

ピット周辺に開けた穴に水流出防止のための凝固剤（水ガラス）注入開始（4月5日15:07）。水の流出が止まったことを確認（4月6日5:38頃）
また、タービン建屋の水位については、上昇してないことを確認。さらに、流出していた箇所について、ゴム板と治具（つかえ棒）により止水の対策を実施（4月6日13:15完了）

- ・復水器の水を復水貯蔵タンクに移送するポンプを1台増設（計2台 30m³/h）（4月5日15:40頃）
- ・使用済燃料プール冷却系から使用済燃料プールに淡水注水（約36t）（4月7日13:39～14:34）
- ・復水器から復水貯蔵タンクへの移送完了（4月9日13:10）
- ・使用済燃料プール冷却系から使用済燃料プールに淡水注水（約60t）（4月10日10:37～12:38）
- ・地震発生により外部電源が喪失するとともに原子炉压力容器への淡水注入が停止（4月11日17:16頃）
- ・外部電源復旧（4月11日17:56）
- ・原子炉压力容器への淡水注水再開（4月11日18:04）
- ・タービン建屋トレンチの滞留水を水中ポンプにより、復水器のホットウェルへ移送を開始（4月12日19:35）。漏えい確認等のため、一時停止（4月13日11:00）。その後、漏えいが無いことが確認されたことから、4月13日15:02に移送を再開し、4月13日17:04に滞留水の移送を停止。移送実績は約660t。
- ・使用済燃料プール冷却系から使用済燃料プールに淡水注入（約60t）（4月13日13:15～14:55）
- ・引き続き白煙の吐出確認（4月15日6:30現在）
- ・原子炉压力容器へ淡水注入中（4月15日8:00現在）

<3号機関係>

- ・原子力災害対策特別措置法第15条（非常用炉心冷却装置注水不能）通報（3月13日5:10）
- ・ベント開始（3月13日8:41）
- ・原子炉压力容器内に消火系ラインから真水注入開始（3月13日11:55）
- ・原子炉压力容器内に消火系ラインから海水注入開始（3月13日13:12）
- ・3号機及び1号機の注入をくみ上げ箇所の海水が少なくなったため停止（3月14日1:10）
- ・3号機の海水注入を再開（3月14日3:20）
- ・ベント開始（3月14日5:20）
- ・格納容器圧力が異常上昇（3月14日7:44）。原子力災害対策特別措置法第15条事象である旨、受信（3月14日7:52）
- ・1号機と同様に原子炉建屋付近で爆発（3月14日11:01）

- ・白い湯気のような煙が発生 (3月16日8:30頃)
- ・格納容器が破損しているおそれがあるため、中央制御室(共用)から作業員退避(3月16日10:45)。その後、作業員は中央制御室に復帰し、注水作業再開(3月16日11:30)
- ・自衛隊ヘリにより3号機への海水の投下を4回実施(3月17日9:48、9:52、9:58、10:01)
- ・警察庁機動隊が放水のため現場到着(3月17日16:10)
- ・自衛隊消防車により放水(3月17日19:35)
- ・警察庁機動隊による放水(3月17日19:05~19:13)
- ・自衛隊消防車5台が放水(3月17日19:35、19:45、19:53、20:00、20:07)
- ・自衛隊消防車6台(6t放水/台)が放水(3月18日14時前~14:38)
- ・米軍消防車1台が放水(3月18日14:45終了)
- ・東京消防庁ハイパーレスキュー隊が放水(3月20日3:40終了)
- ・格納容器内圧力が上昇(3月20日11:00、320kPa)。圧力下げのための準備を進めていたが、直ちに放出を必要とする状況ではないと判断し、圧力監視を継続(3月21日12:15、120kPa)
- ・ケーブル引き込みの現地調査(3月20日11:00~16:00)
- ・東京消防庁ハイパーレスキュー隊が3号機の使用済燃料プールに放水(3月20日21:30~3月21日3:58)
- ・灰色がかった煙が発生(3月21日15:55頃)
- ・煙が収まっていることを確認(3月21日17:55)
- ・灰色がかった煙は白みがかった煙に変化し終息に向かっていると思われる(3月22日7:11現在)
- ・東京消防庁及び大阪市消防局が放水(約180t)(3月22日15:10~16:00)
- ・中央制御室の照明復帰(3月22日22:43)
- ・使用済燃料プールに使用済燃料プール冷却系から海水35t注入(3月23日11:03~13:20)。海水約120t注入(3月24日5:35頃~16:05頃)
- ・原子炉建屋からやや黒色がかった煙が発生(3月23日16:20頃)。3月23日23:30頃及び3月24日4:50頃に確認したところ止んでいる模様。
- ・タービン建屋1階及び地下1階において、ケーブル敷設作業を行っていた作業員が踏み入れた水について調査した結果、水表面の線量率は約400mSv/h、採取水のガンマ線核種分析の結果、試料の濃度は各核種合計で約 $3.9 \times 10^6 \text{Bq/cm}^3$ であった。
- ・東京消防庁の支援を受けた川崎市消防局が放水(3月25日13:28~16:00)
- ・原子炉圧力容器へ淡水注入開始(3月25日18:02)
- ・コンクリートポンプ車(50t/h)が海水約100t放水(3月27日12:34~14:36)
- ・タービン建屋地下の溜まり水を復水器へ移送する準備のため、復水貯蔵タンクの水をサプレッションプール水サージタンクへ移送(3月28日

17:40～3月31日8:40頃)

- ・消防ポンプによる淡水の原子炉圧力容器への注入を仮設電動ポンプに切り替え (3月28日20:30)
- ・コンクリートポンプ車(50t/h)が淡水約100t放水(3月29日14:17～18:18)
- ・コンクリートポンプ車(50t/h)が淡水約105t放水(3月31日16:30～19:33)
- ・コンクリートポンプ車(50t/h)が淡水約75t放水(4月2日9:52～12:54)
- ・タービン建屋の一部の照明が点灯(4月2日)
- ・トレンチ立坑の水位を監視するためのカメラを設置(4月2日)
- ・原子炉圧力容器への淡水の注水に用いている電動ポンプの電源を仮設電源から外部電源に切り替えるため、一時的に消防ポンプに切り替えて原子炉へ淡水の注入を実施(4月3日10:03～12:16)
- ・原子炉圧力容器への淡水注入を外部電源に切り替え(4月3日12:18)
- ・コンクリートポンプ車(50t/h)が淡水約70t放水(4月4日17:03～19:19)
- ・コンクリートポンプ車(50t/h)が淡水約70t放水(4月7日06:53～08:53)
- ・コンクリートポンプ車(50t/h)が淡水約75t放水(4月8日17:06～20:00)
- ・コンクリートポンプ車(50t/h)が淡水約80t放水(4月10日17:15～19:15)
- ・地震発生による1、2号機の外部電源喪失に伴い原子炉圧力容器への淡水注入が停止(4月11日17:16頃)
- ・1、2号機の外部電源の復旧(4月11日17:56)により、原子炉圧力容器への淡水注水再開(4月11日18:04)
- ・コンクリートポンプ車(50t/h)が淡水約35t放水(4月12日16:26～17:16)。
- ・コンクリートポンプ車(50t/h)が淡水約25t放水(4月14日15:56～16:32)。
- ・引き続き白煙の吐出確認(4月15日6:30現在)
- ・原子炉圧力容器へ淡水注入中。(4月15日8:00現在)

<4号機関係>

- ・原子炉圧力容器のシュラウド工事中のため、原子炉圧力容器内に燃料はなし。
- ・使用済燃料プール水温度が上昇(3月14日4:08時点84℃)
- ・オペレーションエリアの壁が一部破損していることを確認(3月15日6:14)
- ・火災発生。(3月15日9:38)事業者によると、自然に火が消えていることを確認(3月15日11:00頃)
- ・火災が発生(3月16日5:45頃)。事業者は現場での火災は確認できず(3月16日6:15頃)
- ・自衛隊が使用済燃料プールへ放水(3月20日9:43)
- ・ケーブル引き込みの現地調査(3月20日11:00～16:00)
- ・自衛隊が使用済燃料プールへ放水(3月20日18:30頃～19:46)
- ・自衛隊消防車13台が使用済燃料プールに放水(3月21日6:37～8:41)

- ・パワーセンターまでのケーブル敷設工事完了 (3月21日 15:00頃)
- ・パワーセンター受電 (3月22日 10:35)
- ・コンクリートポンプ車 (50t/h) が海水約 150 t 放水 (3月22日 17:17～20:32)
- ・コンクリートポンプ車 (50t/h) が海水約 130 t 放水 (3月23日 10:00～13:02)
- ・コンクリートポンプ車 (50t/h) が海水約 150 t 放水 (3月24日 14:36～17:30)
- ・コンクリートポンプ車 (50t/h) が海水約 150 t 放水 (3月25日 19:05～22:07)
- ・使用済燃料プールに、使用済燃料プール冷却系を用いて海水を注入 (3月25日 6:05～10:20)
- ・コンクリートポンプ車 (50t/h) が海水約 125t 放水 (3月27日 16:55～19:25)
- ・中央制御室の照明復帰 (3月29日 11:50)
- ・コンクリートポンプ車 (50t/h) が淡水約 140t 放水 (3月30日 14:04～18:33)
- ・コンクリートポンプ車 (50t/h) が淡水約 180t 放水 (4月1日 8:28～14:14)
- ・タービン建屋の一部の照明が点灯 (4月2日)
- ・4月2日より、集中環境施設プロセス主建屋の建屋内にたまった水を4号機のタービン建屋内に移送していたところ、4月3日より3号機のトレンチの立坑の水位が上昇したため、経路は不明であるものの念のため移送を中断 (4月4日 9:22)
- ・コンクリートポンプ車 (50t/h) が淡水約 180t 放水 (4月3日 17:14～22:16)
- ・コンクリートポンプ車 (50t/h) が淡水約 20t 放水 (4月5日 17:35～18:22)
- ・コンクリートポンプ車 (50t/h) が淡水約 38 t 放水 (4月7日 18:23～19:40)
- ・コンクリートポンプ車 (50t/h) が淡水約 90 t 放水 (4月9日 17:07～19:24)
- ・使用済燃料プール内に保管されている燃料の状況把握のため、使用済燃料プール水のサンプリング作業を実施 (4月12日 12:00～13:04)。採取したプール水について、放射線物質の核種分析を行った (4月13日)。その結果、 ^{131}I (ヨウ素) が $2.2 \times 10^2 \text{Bq/cm}^3$ 、 ^{134}Cs (セシウム) が $8.8 \times 10^1 \text{Bq/cm}^3$ 、 ^{137}Cs (セシウム) が $9.3 \times 10^1 \text{Bq/cm}^3$ 、検出された (4月14日)。
- ・地震発生 (4月11日 17:16頃)
- ・コンクリートポンプ車 (50t/h) が淡水約 195t 放水 (4月13日 0:30～6:57)
- ・白煙の吐出確認 (4月15日 6:30 現在)

<5号機, 6号機関係>

- ・6号機の非常用ディーゼル発電機 (D/G) 1台目 (B) は運転により電力供給。復水補給水系 (MUWC) を用いて原子炉圧力容器及び使用済燃料プールへ注水。
- ・6号機の非常用ディーゼル発電機 (D/G) 2台目 (A) 起動 (3月19日

4:22)

- ・ 5号機の残留熱除去系 (RHR) ポンプ (C) (3月19日5:00) 及び6号機の残留熱除去系 (RHR) ポンプ (B) (3月19日22:14) が起動し、除熱機能回復。使用済燃料プールを優先的に冷却 (電源: 6号の非常用ディーゼル発電機) (3月19日5:00)
- ・ 5号機、冷温停止 (3月20日14:30)
- ・ 6号機、冷温停止 (3月20日19:27)
- ・ 5号機及び6号機、起動用変圧器まで受電 (3月20日19:52)
- ・ 5号機、電源を非常用ディーゼル発電機から外部電源に切り替え (3月21日11:36)
- ・ 6号機、電源を非常用ディーゼル発電機から外部電源に切り替え (3月22日19:17)
- ・ 5号機の仮設の残留熱除去海水系 (RHRS) ポンプが、仮設から本設の電源への切り替えの際、自動停止 (3月23日17:24)
- ・ 5号機の仮設の残留熱除去海水系 (RHRS) ポンプの修理が完了 (3月24日16:14) し、冷却を再開 (3月24日16:35)
- ・ 6号機の仮設の残留熱除去海水系 (RHRS) ポンプが、仮設から本設の電源へ切り替え (3月25日15:38、15:42)
- ・ 5号機及び6号機サブドレンピットにある低レベルの施設内で集水・管理された地下水(約1,500t)を放水口経由で海へ放出開始(4月4日21:00)
- ・ 5号機及び6号機サブドレンピットにある低レベルの施設内で集水・管理された地下水を放水口経由で海へ放出(5号機 4月4日21:00~4月8日12:14(約950t), 6号機 4月4日21:00~4月9日18:52(約373t))
- ・ 地震発生 (4月11日17:16頃)

<使用済燃料共用プール>

- ・ 3月18日6:00過ぎ、プールはほぼ満水であることを確認
- ・ 共用プールに注水 (3月21日10:37~15:30)
- ・ 電源供給を開始 (3月24日15:37) し、冷却を開始 (3月24日18:05)
- ・ 4月14日7:20時点でのプール水温度は28°C程度

<その他>

- ・ 南放水口付近の海水核種分析の結果、 ^{131}I (ヨウ素) が $7.4 \times 10^1 \text{Bq/cm}^3$ (周辺監視区域外の水中濃度限度の1850.5倍) 検出された (3月26日14:30) (3月29日に計測した結果、水中濃度限度の3,355.0倍となった。(3月29日13:55) 一方、1F放水口北側の海水核種分析の結果、 ^{131}I (ヨウ素) が $4.6 \times 10^1 \text{Bq/cm}^3$ (同1,262.5倍) 検出された。(3月29日14:10))
- ・ 1~3号機タービン建屋外のトレンチ (配管を布設しているトンネル状の地下構造物) の立坑に水が溜まっていることを確認。水表面の線量は、1号機が0.4mSv/h、2号機が1,000mSv/h以上、3号機はがれきがあり測

定できず(3月27日15:30頃)。1号機立坑内の溜留水を仮設ポンプにて集中環境施設プロセス主建屋の貯槽に移送し、立坑内の水位が上端から約-0.14mから約-1.14mに減少(3月31日9:20~11:25)。

- ・福島第一原子力発電所の敷地内(5地点)の土壌から、3月21日及び3月22日に採取した試料の中に、 ^{238}Pu (プルトニウム)、 ^{239}Pu (プルトニウム)、 ^{240}Pu (プルトニウム)を検出(3月28日23:45東京電力発表)。検出されたプルトニウムの濃度は、過去の大気圏内核実験において国内で観測されたフォールアウト(放射性降下物)と同様、通常的环境レベルで人体に問題となるものではない。
- ・3号機建屋外において、残留熱除去海水系配管のフランジを取り外した際、協力企業作業員3名が、配管に溜まった水を被ったが、水を拭き取った結果、身体への放射性物質の付着はなかった(3月29日12:03)
- ・3月28日、集中環境施設プロセス主建屋で水溜まりを確認し、放射能分析の結果、3月29日管理区域内で総量約 $1.2 \times 10^1 \text{Bq/cm}^3$ 、非管理区域で総量 $2.2 \times 10^1 \text{Bq/cm}^3$ の放射能を検出した。
- ・南放水口付近の海水核種分析の結果、 ^{131}I (ヨウ素)が $1.8 \times 10^2 \text{Bq/cm}^3$ (周辺監視区域外の水中濃度限度の4385.0倍)検出された。(3月30日13:55)
- ・原子炉等の冷却に使用する淡水を積んだ米軍のはしけ船(1号船)1隻が海上自衛隊の艦船にえい航され、福島第一原子力発電所専用港に接岸(3月31日15:42)。はしけ船(1号船)からろ過水タンクへ淡水を移送開始(4月1日15:58)。その後、ホースの不具合により中断(4月1日16:25)したが、4月2日に注水を再開(4月2日10:20~16:40)
- ・発電所敷地境界付近に設置している本設モニタリングポスト(No.1~8)が復旧(3月31日)。測定値については1日1回の予定。
- ・共用プールの山側の約 500m^2 の範囲に、地面の放射性物質の飛散を防ぐ飛散防止剤を試験的に散布(4月1日15:00~16:05)
- ・2隻目の原子炉等の冷却に使用する淡水を積んだ米軍のはしけ船(2号船)が海上自衛隊の艦船にえい航され、福島第一原子力発電所専用港に接岸(4月2日9:10)
- ・米軍のはしけ船(2号船)からはしけ船(1号船)へ淡水を移送(3日09:52~11:15)
- ・集中環境施設プロセス主建屋内の低レベル滞留水については、放水口南側海域から1台目のポンプによる放出を開始(4月4日19:03)し、更に全10台のポンプによる放出を実施(4月4日19:07)し、4月10日17時40分に水中ポンプによる海洋への放出作業を停止し、残水の確認を実施中(総放出量は約9,070t)
- ・福島第一原子力発電所の敷地内の土壌から、3月25日(4地点)及び3月28日(3地点)に採取した試料(合計7検体)の中に、 ^{238}Pu (プルトニウム)、 ^{239}Pu (プルトニウム)、 ^{240}Pu (プルトニウム)を検出(4月6日

18:30 東京電力発表)。検出されたプルトニウムの濃度は、前回（3月28日公表）と同様に過去の大気圏内核実験において国内で観測されたフォールアウト（放射性降下物）と同程度であり、通常的环境レベルで人体に問題となるものではない。

- ・専用港内からの汚染水の流出を防止するため、発電所南側防波堤周辺で大型土のうを用いた止水工事を実施（4月5日15:00～16:30）
- ・共用プール山側の約600㎡の範囲に、地面の放射性物質の飛散を防ぐ飛散防止剤を試験的に散布（4月5日13:00～16:30、4月6日12:30～14:30）
- ・雑固体廃棄物減容処理建屋内の低レベル滞留水については、放水口南側海域から5台のポンプによる放水を実施（4月6日17:20～4月7日18:20）
- ・タービン建屋内の溜まり水の集中廃棄物処理施設への排水準備のため、2～4号機のタービン建屋の外壁に孔あけを実施（4月7日）
- ・共用プール山側の約680㎡の範囲に、地面の放射性物質の飛散を防ぐ飛散防止剤を試験的に散布（4月8日11:00～14:00）
- ・4月7日11:32に発生した宮城県沖の地震により、中断していた集中環境施設における排水作業を再開（4月8日14:30）
- ・共用プール山側の約550㎡の範囲に、地面の放射性物質の飛散を防ぐ飛散防止剤を試験的に散布（4月10日13:00～14:00）
- ・リモートコントロール重機による、がれきの撤去を実施（4月10日）
- ・1～4号機について、原子炉建屋の状況を把握するため、無線ヘリによる動画撮影を実施（4月10日15:59～16:28）
- ・南側防波堤に汚染水拡散防止のためのシルトフェンスを二重に設置完了（4月11日10:45）
- ・共用プール山側の約1,200㎡の範囲に、地面の放射性物質の飛散を防ぐ飛散防止剤を試験的に散布（4月11日12:00～13:00）
- ・1～4号機放水口サンプリング建屋より発火を確認（4月12日6:38頃）。初期消火活動の結果、炎と煙がないことを確認（同日7:00前）。その後、鎮火確認（同日9:12）
- ・共用プール山側の約700㎡の範囲に、地面の放射性物質の飛散を防ぐ飛散防止剤を試験的に散布開始（4月12日12:00～13:00）。
- ・2号機バースクリーンの海側に仮設の止水板（鋼板7枚中1枚）を設置（4月12日12:00～13:00）。
- ・2号機バースクリーンの海側に仮設の止水板（鋼板7枚中2枚）を設置（4月13日8:30頃～10:00頃）。
- ・3、4号機スクリーン前面に汚染水拡散防止のためのシルトフェンスを設置完了（4月13日13:50）
- ・共用プール山側の約400㎡の範囲に、地面の放射性物質の飛散を防ぐ飛散防止剤を試験的に散布（4月13日11:00～11:30）。
- ・リモートコントロール重機による瓦礫の撤去（コンテナ6個分）を実施

(4月13日11:00~16:10)。

- ・ 1, 2号機スクリーン前面及びカーテンウォールに汚染水拡散防止のためシルトフェンスを設置(4月14日12:20)。
- ・ 3~4号機について、原子炉建屋の状況を把握するため、無線ヘリによる動画撮影を実施(4月14日10:17~12:25)。
- ・ 共用プール山側の約1600m²の範囲に、地面の放射性物質の飛散を防ぐ飛散防止剤を試験的に散布(4月14日12:00~13:30)。
- ・ 福島第一原子力発電所の敷地内の定例的に試料の採取を行うこととなっている3地点の土壌から、3月31日及び4月4日に採取した試料(合計6検体)のうち、3検体から²³⁸Pu(プルトニウム)、²³⁹Pu(プルトニウム)、²⁴⁰Pu(プルトニウム)を検出(4月14日18:30東京電力発表)。検出されたプルトニウムの濃度は、過去の大気圏内核実験において国内で観測されたフォールアウト(放射性降下物)と同程度であり、通常的环境レベルで人体に問題となるものではない。

○東京電力(株)福島第二原子力発電所(福島県双葉郡楢葉町及び富岡町)

(1) 運転状況

- 1号機(110万kW)(自動停止、3月14日17:00冷温停止)
- 2号機(110万kW)(自動停止、3月14日18:00冷温停止)
- 3号機(110万kW)(自動停止、3月12日12:15冷温停止)
- 4号機(110万kW)(自動停止、3月15日7:15冷温停止)

(2) モニタリングポスト等の指示値

別添参照

(3) 主なプラントパラメーター(4月15日6:00現在)

	単位	1号機	2号機	3号機	4号機
原子炉圧力* ¹	MPa	0.15	0.13	0.10	0.17
原子炉水温	°C	25.2	24.7	33.0	29.0
原子炉水位* ²	mm	9296	10346	7796	8785
原子炉格納容器内 サプレッションプール水温	°C	24	24	26	30
原子炉格納容器内 サプレッションプール圧力	kPa (abs)	104	105	110	109
備考		冷温停止中	冷温停止中	冷温停止中	冷温停止中

* 1 : 絶対圧に換算

* 2 : 燃料頂部からの数値

(4) 各プラントの状況

<1号機関係>

- ・3月30日17:56頃、1号機において、タービン建屋の1階の電源盤から煙が上がっていたが、電気の供給を切ったところ、煙の発生が止まった。消防署により、19:15当該事象は電源盤の異常であり、火災ではないと判断された。
- ・1号機の原子炉を冷却する残留熱除去系(B)の電源が、外部電源に加え非常用電源からも受電可能となり、全号機において、残留熱除去系(B)のバックアップ電源(非常用電源)を確保(3月30日14:30)

(5) その他異常等に関する報告

- ・1号機にて原子力災害対策特別措置法第10条通報(3月11日18:08)
- ・1、2、4号機にて同法第10条通報(3月11日18:33)
- ・1号機にて原子力災害対策特別措置法第15条事象(圧力抑制機能喪失)発生(3月12日5:22)
- ・2号機にて原子力災害対策特別措置法第15条事象(圧力抑制機能喪失)発生(3月12日5:32)
- ・4号機にて原子力災害対策特別措置法第15条事象(圧力抑制機能喪失)発生(3月12日6:07)

○東北電力(株)女川原子力発電所(宮城県牡鹿郡女川町、石巻市)

(1) 運転状況

- 1号機(52万4千kW)(自動停止、3月12日0:58冷温停止)
- 2号機(82万5千kW)(自動停止、地震時点で冷温停止)
- 3号機(82万5千kW)(自動停止、3月12日1:17冷温停止)

(2) モニタリングポスト等の指示値

MP2付近(敷地最北敷地境界):

約0.32 μ Sv/h(4月14日16:00)(約0.32 μ Sv/h(4月13日16:00))

(3) その他異常に関する報告

- ・タービン建屋地下1階の発煙は消火確認(3月11日22:55)
- ・原子力災害対策特別措置法第10条通報(3月13日13:09)

2 産業保安

○電気(4月14日21:30)

- ・東北電力(4月14日16:00現在)

停電戸数: 約15万戸

停電地域: 岩手県 一部地域で停電(約2万9千戸)

宮城県 一部地域で停電(約9万1千戸)

福島県 一部地域で停電(約3万5千戸)

(4月11日17:16頃、福島県内陸部で発生した地震により新た

に発生した停電戸数は、4月11日22:00現在、福島県内で約8万5千戸。）

[参考情報] 停電戸数の状況の分類 (4月13日16:00現在)

- ① 津波等で東北電力の設備、インフラ、家屋等が流出した地域：約8万7千戸
- ② 瓦礫撤去・立入制限解除等の後、復旧作業に着手する地域：約5万2千戸
- ③ 家屋、インフラは健全なものの、水没・損傷した東北電力の設備の復旧が必要な地域：約7千戸
- ④ 東北電力の設備は復旧したが、家主の不在等により送電を留保している戸数：約1万5千戸

・東京電力

停電は3月19日1:00までに復旧済 (延べ停電戸数 約405万戸)

・北海道電力

停電は3月12日14:00までに復旧済 (延べ停電戸数 約3千戸)

・中部電力

停電は3月12日17:11に復旧済 (延べ停電戸数 約4百戸)

・電源開発 (4月9日5:10現在)

北本連系線 送電再開

(4月7日23:32頃発生した宮城県沖を震源とする地震によるもの。)

[参考情報] 現在停止中の発電所 (原子力発電所を除く)

・東京電力 (4月14日16:00現在) ※地震により停止中の発電所

広野火力発電所 2, 4号機

常陸那珂火力発電所 1号機

鹿島火力発電所 6号機

・東北電力 (4月14日16:00現在)

仙台火力発電所 4号機

新仙台火力発電所 1, 2号機

原町火力発電所 1, 2号機

○都市ガス (4月14日21:00現在)

・供給停止戸数[※]約4万戸 (延べ供給停止戸数[※] 約48万戸)

[※]延べ供給停止戸数には、家屋倒壊等が確認された戸数を含む。

(1) 一般ガス (4月14日21:00現在)

死亡事故：地震との関係も含め原因詳細調査中。

・盛岡ガス (盛岡市) 死者1名、負傷者10名

3月14日8:00 デパートの地下での爆発

- ・東部ガス（いわき市）死者1名
3月12日11:30 一般住宅での漏えいガスに着火

北海道、山形県、秋田県においては、供給停止の報告はない。
各社の供給停止状況は以下の通り。

- ・仙台市営ガス 31,515戸供給停止
(4月7日23:32頃発生した宮城県沖を震源とする地震による供給停止戸数を
含む。)
- ・常磐共同ガス（いわき市）729戸供給停止
- ・石巻ガス（石巻市）5,341戸供給停止

(2) 簡易ガス（4月14日21:00現在）

各社の供給停止状況は以下の通り。

- ・釜石瓦斯（上閉伊郡大槌町）390戸供給停止
- ・カメイ（東松島市）66戸供給停止
- ・三重商会（大船渡市）12戸供給停止
- ・ガス&ライフ（東松島市）165戸供給停止
- ・泉金物産（上閉伊郡大槌町）68戸供給停止

○熱供給（4月14日21:00現在）

- ・小名浜配湯（いわき市小名浜）供給停止

○LPGガス（4月14日21:00現在）

死亡事故：地震との関係も含め原因詳細調査中

- ・福島県いわき市 死者1名
3月13日午前中 共同住宅でガス爆発
- ・いわき市鹿島の一般住宅でLPGガス漏れが発生、元栓を閉めて漏えい防止
を図っているところ。

(4月11日17:16頃、福島県内陸部で発生した地震によるもの（福島県浜通
りの地震発生による状況について（第二報）で公表済み。))

○コンビナート（4月14日21:00現在）

- ・コスモ石油千葉製油所（千葉県市原市）
LPG貯槽の支柱が折れ、破損。ガス漏れ火災。重傷者1名、軽傷5名。3月
21日午前鎮火。
- ・JX日鉱日石エネルギー(株)仙台製油所（宮城県仙台市）
出荷設備エリアで爆発、火災が発生。3月15日午後鎮火。
- ・福島県いわき市の第一三共プロファーマ(株)小名浜工場でガス漏れ、火災が
発生（既に鎮火。けが人なし）

(4月11日17:16頃、福島県内陸部で発生した地震によるもの（福島県浜通り

の地震発生による状況について（第二報）で公表済み。))

3 原子力安全・保安院等の対応

【3月11日】

- 14:46 地震発生と同時に原子力安全・保安院に災害対策本部設置
- 15:42 福島第一原子力発電所にて原子力災害対策特別措置法第10条通報
- 16:36 福島第一原子力発電所1、2号機にて事業者が同法第15条事象（非常用炉心冷却装置注水不能）発生判断（16:45 通報）
- 18:08 福島第二原子力発電所1号機にて原子力災害対策特別措置法第10条通報
- 18:33 福島第二原子力発電所1、2、4号機にて原子力災害対策特別措置法第10条通報
- 19:03 緊急事態宣言（政府原子力災害対策本部及び同現地対策本部設置）
- 20:50 福島県対策本部は、福島第一原子力発電所1号機の半径2kmの住人に避難指示を出した。（2km以内の住人は1,864人）
- 21:23 内閣総理大臣より、福島県知事、大熊町長及び双葉町長に対し、東京電力(株)福島第一原子力発電所で発生した事故に関し、原子力災害対策特別措置法第15条第3項の規定に基づく指示を出した。
- ・福島第一原子力発電所から半径3km圏内の住民に対する避難指示。
 - ・福島第一原子力発電所から半径10km圏内の住民に対する屋内退避指示。
- 24:00 池田経済産業副大臣現地対策本部到着

【3月12日】

- 0:49 福島第一原子力発電所1号機にて事業者が同法第15条事象（格納容器圧力異常上昇）発生判断（01:20 通報）
- 5:22 福島第二原子力発電所1号機にて事業者が原子力災害対策特別措置法第15条事象（圧力抑制機能喪失）発生判断（6:27 通報）
- 5:32 福島第二原子力発電所2号機にて事業者が原子力災害対策特別措置法第15条事象（圧力抑制機能喪失）発生判断（6:27 通報）
- 5:44 総理指示により福島第一原子力発電所の10km圏内に避難指示
- 6:07 福島第二原子力発電所4号機にて原子力災害対策特別措置法第15条事象（圧力抑制機能喪失）発生
- 6:50 原子炉等規制法第64条第3項の規定に基づき、福島第一原子力発電所第1号機及び第2号機に設置された原子炉格納容器内の圧力を抑制することを命じた。
- 7:45 内閣総理大臣より、福島県知事、広野町長、楡葉町長、富岡町長

及び大熊町長に対し、東京電力(株)福島第二原子力発電所で発生した事故に関し、原子力災害対策特別措置法第15条第3項の規定に基づく指示を出した。

・福島第二原子力発電所から半径3km圏内の住民に対する避難指示。

・福島第二原子力発電所から半径10km圏内の住民に対する屋内退避指示。

17:00 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象(敷地境界放射線量異常上昇)である旨、受信

17:39 内閣総理大臣が福島第二原子力発電所の避難区域

・福島第二原子力発電所から半径10km圏内の住民に対する避難を指示。

18:25 内閣総理大臣が福島第一原子力発電所の避難区域

・福島第一原子力発電所から半径20km圏内の住民に対する避難を指示。

19:55 福島第一原子力発電所1号機の海水注入について総理指示

20:05 総理指示を踏まえ、原子炉等規制法第64条第3項の規定に基づき、福島第一原子力発電所第1号機の海水注入等を命じた。

20:20 福島第一原子力発電所1号機の海水注入を開始

【3月13日】

5:38 福島第一原子力発電所3号機にて原子力災害対策特別措置法第15条事象(全注水機能喪失)である旨、受信。

当該サイトについて、東京電力において現在、電源及び注水機能の回復と、ベントのための作業を実施中。

9:01 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象(敷地境界放射線量異常上昇)である旨、受信

9:08 福島第一原子力発電所3号機の圧力抑制及び真水注入を開始

9:20 福島第一原子力発電所3号機の耐圧ベント弁開放

9:30 福島県知事、大熊町長、双葉町長、富岡町長、浪江町長に対し、原子力災害対策特別措置法に基づき、放射能除染スクリーニングの内容について指示

13:09 女川原子力発電所にて原子力災害対策特別措置法第10条通報

13:12 福島第一原子力発電所3号機の注入を真水から海水に切り替え

14:36 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象(敷地境界放射線量異常上昇)である旨、受信

【3月14日】

1:10 福島第一原子力発電所1号機及び3号機の注入をくみ上げ箇所の海水が少なくなったため停止。

3:20 福島第一原子力発電所3号機の海水注入を再開

- 4 : 4 0 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信
- 5 : 3 8 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信
- 7 : 5 2 福島第一原子力発電所 3 号機にて原子力災害対策特別措置法第 1 5 条事象（格納容器圧力異常上昇）である旨、受信
- 1 3 : 2 5 福島第一原子力発電所 2 号機にて原子力災害対策特別措置法第 1 5 条事象（原子炉冷却機能喪失）である旨、受信
- 2 2 : 1 3 福島第二原子力発電所にて原子力災害対策特別措置法第 1 0 条通報
- 2 2 : 3 5 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信

【3月15日】

- 0 : 0 0 国際原子力機関（IAEA）専門家派遣の受け入れを決定
IAEA 天野事務局長による原子力発電所の被害に関する専門家派遣の意向を受け、原子力安全・保安院は IAEA による知見ある専門家の派遣を受け入れることとした。なお、実際の受け入れ日程等については、今後調整を行う
- 0 : 0 0 米国原子力規制委員会（NRC）専門家派遣の受け入れを決定
- 7 : 2 1 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信
- 7 : 2 4 （独）日本原子力研究開発機構東海研究開発センター核燃料サイクル工学研究所にて原子力災害対策特別措置法第 1 0 条通報
- 7 : 4 4 （独）日本原子力研究開発機構原子力科学研究所にて原子力災害対策特別措置法第 1 0 条通報
- 8 : 5 4 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信
- 1 0 : 3 0 経済産業大臣が原子炉等規制法に基づき、4 号機の消火及び再臨界の防止、2 号機の原子炉内への早期注水及びドライウエルのベントの実施について指示
- 1 0 : 5 9 今後の事態の長期化を考慮し、現地対策本部の機能を福島県庁内へ移転することを決定。
- 1 1 : 0 0 内閣総理大臣が福島第一原子力発電所の避難区域
・炉内の状況を考慮して、新たに福島第一原子力発電所から半径 2 0 k m 圏～ 3 0 k m 圏内の住民に対する屋内退避を指示
- 1 6 : 3 0 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信
- 2 2 : 0 0 経済産業大臣が原子炉等規制法に基づき、4 号機の使用済燃料プールへの注水の実施を指示

23:46 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象（敷地境界放射線量異常上昇）である旨、受信

【3月18日】

13:00 文部科学省にて、福島第一、第二原子力発電所の緊急時における全国的モニタリング調査の強化を決定

15:55 原子炉等規制法第62条の3に基づき、東京電力(株)福島第一原子力発電所第1・2・3・4号機における事故故障等（原子炉建屋内の放射性物質の非管理区域への漏えい）の報告を受理

16:48 原子炉等規制法第62条の3に基づき、日本原子力発電(株)東海第二発電所における事故故障等（非常用ディーゼル発電機2C海水ポンプ用電動機の故障）の報告を受理

【3月19日】

7:44 6号機の非常用ディーゼル発電機2台目（A）起動
5号機の残留熱除去系（RHR）ポンプ（C）が起動し、使用済燃料プールの冷却を開始（電源：6号機の非常用ディーゼル発電機）の旨を受信

8:58 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象（敷地境界放射線量異常上昇）である旨、受信

【3月20日】

23:30 原子力災害対策現地本部から、放射能除染スクリーニングレベルの基準を以下のとおり変更する旨、県知事及び関係市町村長（富岡町、双葉町、大熊町、浪江町、川内村、楢葉町、南相馬市、田村市、葛尾村、広野町、いわき市、飯館村）宛に指示

【3月21日】

7:45 原子力災害対策現地本部から「安定ヨウ素剤の服用について」として、安定ヨウ素剤の服用は、本部の指示を受け、医療関係者の立ち会いのもとで服用するものであり、個人の判断で服用しない旨の指示を、県知事及び関係市町村長（富岡町、双葉町、大熊町、浪江町、川内村、楢葉町、南相馬市、田村市、葛尾村、広野町、いわき市、飯館村）宛に発出

16:45 原子力災害対策現地本部長から「屋内退避圏内での暖房器具の使用に係る換気について」として、一酸化炭素中毒等の防止の観点及び被ばく低減の観点から、屋内において換気を必要とする暖房器具を使用する場合の対応について屋内退避圏内の住民に周知する旨の指示を福島県知事及び市町村長（いわき市、田村市、南相馬市、広野町、川内村、浪江町、葛尾村、飯館村）宛に発出。

17:50 原子力災害対策本部長から、ハウレンソウ及びカキナ、原乳について当分の間、出荷を控えるよう、関係事業者等に要請することの指示を福島県、茨城県、栃木県及び群馬県の各知事宛に発出。

【3月22日】

16:00 原子力安全委員会緊急技術助言組織から、3月22日付け東京電力の「海水分析結果について」に関する原子力安全・保安院からの助言依頼について、回答（助言）を受理。

【3月25日】

原子力安全・保安院は、東京電力株式会社に対し、3月24日に発生した福島第一原子力発電所3号機タービン建屋における作業員の被ばくに関し、再発防止の観点から、直ちに放射線管理を見直し、改善するよう、口頭で指示。

【3月28日】

原子力安全・保安院は、東京電力株式会社に対し、3月27日に東京電力(株)が発表した福島第一原子力発電所2号機タービン建屋地下階溜まり水の測定に係る評価の誤りについて、再発防止を図るよう、口頭で指示。

13:50 原子力安全・保安院は、原子力安全委員会臨時会議助言（福島第一発電所2号機タービン建屋地下1階の滞留水について）を受け、東京電力株式会社に対し、海水モニタリングポイントの追加や地下水モニタリングの実施について、口頭で指示。

原子力安全・保安院は、東京電力(株)に対し、タービン建屋の屋外で確認された水に係る報告が遅れたことに対し、重要な情報については、社内の情報伝達をスムーズにするとともに、適時適切に報告が行われるように指導。

【3月29日】

11:16 原子炉等規制法第62条の3及び電気関係報告規則第3条に基づき、東北電力(株)女川原子力発電所における事故故障等（津波による2号機原子炉補機冷却水ポンプ(B)等の故障及び1号機補助ボイラー重油タンクの倒壊）についての報告を受理。

原子力災害被災者支援の体制強化のため、経済産業大臣をチーム長とする「原子力被災者生活支援チーム」の設置、関係市町村への訪問等を実施。

原子力災害現地対策本部は、20-30km圏内の地域住民等に向けた、ニュースレター第1号を公表。

【3月30日】

各電気事業者等に対し、平成23年福島第一・第二原子力発電所事故を踏まえた他の発電所の緊急安全対策の実施に係る指示文書を発出し、手交。

【3月31日】

原子力安全・保安院は、東京電力(株)に対し、3月31日の福島第二原子力発電所への街宣車の進入について、核物質防護等に係

る対策に万全を期すよう口頭で指示。

原子力安全・保安院は、東京電力(株)に対し、作業員の放射線管理に万全を期すように注意喚起。

原子力災害現地対策本部は、20-30km圏内の地域住民等に向けた、ニュースレター第2号を公表。

【4月1日】

原子力安全・保安院は、東京電力(株)に対し、核種分析結果の誤りについて以下の3点について適切な対応をとるように嚴重注意。

- ・核種分析の過去の評価結果について、どの核種について評価の誤りがあるかを明らかにし、すみやかに再評価を行うこと。
- ・評価の誤りが発生した原因を調査するとともに、再発防止の徹底を行うこと。
- ・評価結果の誤り等については判明した段階で、早急に連絡を行うこと。

【4月2日】

福島第一原子力発電所2号機取水口付近からの放射性物質を含む液体の海への流出について、サンプリングした液体の核種分析を実施すること、2号機周辺に今回漏えいが発見され施設と同様の箇所がないか確認すること及び当該施設周辺においてより多くの場所で水を採取しモニタリングを強化することを口頭により指示。

【4月4日】

緊急やむ得ない措置として、海洋放出を実施するに当たっての助言を原子力安全委員会に求め、東京電力(株)に対し、現在実施している海洋モニタリングを着実に実施するとともに、さらに強化(測定ポイントの増加、実施頻度の増大)することにより、海洋放出による放射性物質の拡散による影響を調査・確認し、情報公開に努めること、併せて、海洋への放出を可能な限り低減するための方策を強化することを指示。

【4月5日】

福島第一原子力発電所から環境に影響を与える可能性のある放射性物質の放出に伴う措置に係る地方公共団体への事前の通報連絡について、指示文書を発出。

【4月6日】

1号機原子炉格納容器への窒素封入を実施するに当たって、原子力安全・保安院から東京電力に対して以下の3点について指示(4月6日12:40)。
①プラントパラメーターを適切に管理し、その変化に応じて安全を確保するための措置が適切に講じられるように

すること。②当該作業に従事する作業員の安全を確保する体制等を確立し実施すること。③窒素封入により当該原子炉格納容器内の気体が外部に漏出する可能性が否定できないことから、モニタリングを確実に実施し、更に強化することにより、窒素封入に伴う放射性物質の放出及び拡散による影響を調査及び確認し、情報公開に努めること。

【4月7日】

原子力災害現地対策本部は、20～30km圏内の地域住民等に向けた、ニュースレター第3号を公表（4月7日）

【4月9日】

原子力安全・保安院は、4月7日23時32分頃に発生した宮城県沖地震により、東北電力(株)東通原子力発電所1号機において全ての非常用ディーゼル発電機が動作可能でない状態に陥った事象を受け、各電気事業者等へ「非常用発電設備の保安規定上の取扱いについて」の指示文書を発出。

【4月10日】

原子炉等規制法第67条第1項に基づき、福島第一原子力発電所に滞留している高い放射線量が検出された排水の集中廃棄物処理建屋への移送に関して、その必要性、安全性に係る評価、恒久的な排水保管及び処理施設についての方針等に係る報告の徴収について指示文書を発出。

【4月13日】

- ・原子力安全・保安院は、東京電力(株)に対し、原子炉等規制法第67条第1項に基づき、福島第一原子力発電所建屋の耐震安全性評価の実施結果及び有効な耐震補強工事等の対策の検討結果について報告を指示。
- ・原子力安全・保安院は、東京電力(株)に対し、平成23年度東北地方太平洋沖地震により発生した津波に関して、詳細な分析及び検討を指示。
- ・原子力安全・保安院は、東北電力(株)に対し、女川原子力発電所1号機から3号機において、4月7日23:32頃発生した2011年宮城県沖の地震時に取得した地震観測データの分析及び耐震安全上重要な設備の地震影響評価について報告を指示。

【4月14日】

- ・4月13日にサンプリングを行った1、2号機のサブドレン（施設内で集水・管理された地下水）について、前回に比べ放射線濃度が1桁上昇していたことから、原子力安全・保安院は監視の強化を図るよう、口頭で指示。

<被ばくの可能性（4月15日8:00現在）>

1. 住民の被ばく

- (1) 二本松市福島県男女共生センターにおいて、双葉厚生病院からの避難者約60名を含む133名の測定を行い、13,000cpm以上の23名に除染を実施した。
- (2) この他、福島県が用意した民間バスで、双葉厚生病院から川俣町済生会川俣病院へ移動した35名については、県対策本部は被ばくしていないと判断。
- (3) バスにより避難した双葉町の住民約100名について、100名のうち、9名について測定した結果、以下の通りだった。県外(宮城県)に分かれて避難したが、その後合流して二本松市福島男女共生センターへ移動。

カウント数	人数
18,000cpm	1名
30,000~36,000cpm	1名
40,000cpm	1名
40,000cpm 弱*	1名
ごく小さい値	5名

※（1回目の測定では100,000cpmを超え、その後靴を脱いで測定した結果計測されたもの）

- (4) 3月12日から3月15日にかけて、大熊町のオフサイトセンターにおいて、スクリーニングを開始。現在までに162名が検査済み。初め除染の基準値を6,000cpmとし、110名が6,000cpm未満、41名が6,000cpm以上の値を示した。後に基準値を13,000cpmと引き上げた際には、8名が13,000cpm未満、3名が13,000cpm以上の値を示した。
検査を受けた162名のうち、5名が除染処置を施した後、病院へ搬送された。
- (5) 福島県において、避難した10km圏内の入院患者と病院関係者の避難を実施。関係者のスクリーニングを行った結果、3名について除染後も高い数値が検出されたため、第2次被ばく医療機関へ搬送。この搬送に関係した消防職員60名のスクリーニングで3名について、バックグラウンドの2倍以上程度の放射線が検出されたため、60名に対し除染を行った。
- (6) 福島県は3月13日からスクリーニングを開始。避難所や保健所等11ヶ所（常設）で実施中。4月12日までに147,222人に対し実施。そのうち、100,000cpm以上の値を示した者は102人であったが、100,000cpm以上の数値を示した者についても脱衣等をし、再計測したところ、100,000cpm以下に減少し、健康に影響を及ぼす事例はみられなかった。

2. 従業員等の被ばく

福島第一原子力発電所で作業していた従業員で100mSvを超過した作業員は、

計 28 名。

なお、当該作業員 3 名のうち、2 名については、両足の皮膚に放射性物質の付着を確認し、ベータ線熱傷の可能性があると判断されたことから、3 月 24 日に福島県立医科大学附属病院へ搬送し、その後、3 月 25 日に作業員 3 名とも千葉県にある放射線医学総合研究所に到着。検査の結果、2 人の足の被ばく量は 2～3Sv と推定され、足及び内部被ばく共に治療が必要となるレベルではなかったが、3 名とも、入院して経過を見ることとなった。3 月 28 日正午頃 3 名の方がすべて退院した。当該作業員 3 名は 4 月 11 日に放射線医学総合研究所で再受診し、3 名とも健康状態に問題はなかった。なお、両足に局所被ばくのあった 2 名の皮膚に熱傷の症状や紅斑などは認められていない。

また、4 月 1 日 11:35 頃、米軍のはしけ船のホース手直し作業のために岸から船に乗り込む際、作業員 1 名が海に落下した。すぐに周囲の作業員に救助され、けが及び外部汚染はなかったが、念のため、ホールボディカウンタによる測定を行った結果、4 月 12 日に内部取り込みなしと評価された。

3. その他

- (1) 福島第一原発で作業していた自衛隊員 4 名が爆発により負傷。うち、1 名は放医研に搬送され、検査の結果、外傷のみで、被ばくによる健康被害はないと判断され、3 月 17 日に退院。防衛省において、その他自衛官の被ばくは確認されず。
- (2) 警察官について、警察庁において 2 名の除染の実施を確認。異常の報告はなし。
- (3) 3 月 24 日、川俣町保健センター等において、1～15 歳までの 66 名の小児に対する甲状腺の検査を実施。問題となるレベルではなかった。
- (4) 3 月 26 日～3 月 27 日、いわき市保健所において、0～15 歳までの 137 名の小児に対する甲状腺の検査を実施。問題となるレベルではなかった。
- (5) 3 月 28 日～3 月 30 日、川俣町公民館及び飯舘村役場において、0～15 歳までの 946 名の小児に対する甲状腺の検査を実施。問題となるレベルではなかった。

<放射能除染スクリーニングレベルに関する指示>

- (1) 3 月 20 日、原子力災害対策現地本部から、放射能除染スクリーニングレベルの基準を以下のとおり変更する旨、県知事及び関係市町村長（富岡町、双葉町、大熊町、浪江町、川内村、楡葉町、南相馬市、田村市、葛尾村、広野町、いわき市、飯舘村）宛に指示。

旧：γ線サーベイメーターにより 40 ベクレル/c m² または 6,000cpm

新：1 マイクロシーベルト/時（10cm 離れた場所での線量率）またはこれに相当する 100,000cpm

<避難時における安定ヨウ素剤投与の指示>

- (1) 3月16日、原子力災害対策現地本部から、「避難区域（半径20km）からの避難時における安定ヨウ素剤投与の指示」を県知事及び市町村（富岡町、双葉町、大熊町、浪江町、川内村、楢葉町、南相馬市、田村市、葛尾村、広野町、いわき市、飯館村）宛に発出。
- (2) 3月21日、原子力災害対策現地本部から「安定ヨウ素剤の服用について」として、安定ヨウ素剤の服用は、本部の指示を受け、医療関係者の立ち会いのもとで服用するものであり、個人の判断で服用しない旨の指示を、県知事及び関係市町村長（富岡町、双葉町、大熊町、浪江町、川内村、楢葉町、南相馬市、田村市、葛尾村、広野町、いわき市、飯館村）宛に発出。

<負傷者等の状況（4月15日8:00現在）>

1. 3月11日の地震による福島第一原子力発電所の負傷者
 - ・社員2名（軽傷、既に仕事復帰）
 - ・社員2名（地震、津波の際に割れたガラスで切り傷、既に仕事復帰）
 - ・社員1名（避難の際に擦り傷、既に仕事復帰）
 - ・協力会社1名（両足骨折で入院中）
 - ・死亡2名（地震発生後から東京電力（株）の社員2名が行方不明となり、捜査を継続してきたが、3月30日午後、4号機タービン建屋地下一階において当該社員2名が発見され、4月2日までに死亡が確認された。）
2. 3月12日の福島第一原子力発電所1号機の爆発による負傷者
 - ・1号機付近で爆発と発煙が発生した際に4名（社員2名、協力会社2名）が1号タービン建屋付近（管理区域外）で負傷。川内診療所で診療。社員2名は既に仕事復帰。協力会社の2名は自宅療養中。
3. 3月14日の福島第一原子力発電所3号機の爆発による負傷者
 - ・社員4名（既に仕事復帰）
 - ・協力会社3名（既に仕事復帰）
 - ・自衛隊4名（うち1名は内部被ばくの可能性を考慮し、「(独)放射線医学総合研究所」へ搬送。診察の結果内部被ばくはなし。3月17日退院）
4. その他の被害
 - ・3月11日の地震発生の際に、福島第二原子力発電所において、協力会社の1名（クレーンオペレータ）が死亡。（タワークレーンが折れ、オペレータールームがつぶれ、頭に当たった模様。）
 - ・3月11日に協力会社の1名を病院へ搬送（後日脳梗塞と判明）
 - ・3月12日に急病人1名発生（脳卒中、救急車搬送、入院中）
 - ・3月12日に管理区域外にて社員1名が左胸の痛みを訴えて救急車を要請（意

識あり、現在、自宅療養中。)

- ・3月12日に社員1名が左腕裂傷、病院へ搬送し手当（既に仕事復帰）
- ・3月13日に社員2名が中央制御室での全面マスク着用中に不調を訴え、福島第二の産業医の受診を受けるべく搬送（1名は既に仕事復帰、残り1名は自宅療養中）
- ・3月22日、23日に共用プールで仮設電源盤の作業中に協力会社の2名が負傷し、産業医のいる福島第二原子力発電所へ搬送。（1名は既に仕事復帰、残り1名は自宅療養中）
- ・4月7日午後、福島第一原子力発電所構内北側の土捨て場において、土のう作りをしていた作業員1名が体調不良になったため、Jビレッジに搬送し、身体サーベイにより汚染なしを確認した後、救急車でいわき市立共立病院に搬送された。4月8日、「脱水、一過性意識消失」と診断。
- ・4月9日午前9時19分、水処理建屋において全面マスク着用でケーブル処理作業を行っていた協力企業社員1名の気分が悪くなり、建屋の外にある蓋のずれたマンホールに足を踏み入れて負傷したため、病院へ搬送しました。診断の結果、「右膝挫傷」「右膝内側側副靭帯損傷疑い」と診断。なお、身体サーベイの結果、汚染はないことが確認された。
- ・4月10日午前11時10分頃、2号機ヤードにおいて排水ホースの敷設作業を行っていた協力企業社員1名の気分が悪くなったため、Jビレッジに搬送後、同日午後2時27分に救急車で総合磐城共立病院へ搬送。なお、身体への放射性物質の付着はないことが確認された。

<住民避難の状況（4月15日8:00現在）>

3月15日11:00、内閣総理大臣の指示により、福島第一原子力発電所半径20kmから30km圏内の住民に対して、屋内退避を指示。その旨を福島県及び関係自治体へ連絡。

福島第一原子力発電所20km圏外及び福島第二原子力発電所10km圏外への避難は、措置済。

- ・福島第一原子力発電所20kmから30km圏内の屋内退避について、徹底中。
- ・福島県と連携して、屋内退避圏内の住民の生活支援等を実施。
- ・3月28日、官房長官から福島第一原子力発電所から半径20km圏内の立ち入り規制の継続について発言。同日、原子力災害現地対策本部から関係市町村に対して、20km圏内の避難地域への立入禁止について通知。

<飲食物への指示>

原子力災害対策本部長より、福島県、茨城県、栃木県、千葉県の知事に対して、以下の品目について、当分の間、出荷等を控えるよう指示。

また、原子力災害対策本部は、出荷制限等の発動・解除の考え方については、

原子力安全委員会の助言も踏まえ、以下のように整理した。

- ・出荷制限・解除の対象区域は、汚染区域の拡がりや集荷実態等を踏まえ、市町村単位など県を分割した区域ごとに行うことも可能とする
- ・暫定規制値を超えた品目の出荷制限については、汚染の地域的拡がりを勘案しつつ総合的に判断
- ・出荷制限の解除は、福島第一原子力発電所の状況を勘案しつつ、約1週間ごとと検査を行い、3回連続で暫定規制値を下回った品目・区域に対して実施
- ・ただし、原子力発電所から放射性物質の放出が継続している間は、解除後も引き続き約1週間ごとに検査を実施

(1) 出荷制限・摂取制限品目 (4月15日8:00現在)

都道府県	出荷制限品目	摂取制限品目
福島県	非結球性葉菜類、結球性葉菜類、アブラナ科の花蕾類（ハウレンソウ、キャベツ、ブロッコリー、カリフラワー、小松菜、茎立菜、信夫冬菜、アブラナ、ちぢれ菜、山東菜、紅葉苔、カキナなど）、カブ、原乳（喜多方市、磐梯町、猪苗代町、三島町、会津美里町、下郷町及び南会津町を除く）、しいたけ（伊達市、相馬市、南相馬市、田村市、いわき市、新地町、川俣町、浪江町、双葉町、大熊町、富岡町、檜葉町、広野町、飯舘村、葛尾村及び川内村において露地で原木を用いて栽培されたものに限る。）	非結球性葉菜類、結球性葉菜類及びアブラナ科の花蕾類（ハウレンソウ、キャベツ、ブロッコリー、カリフラワー、小松菜、茎立菜、信夫冬菜、アブラナ、アブラナ、ちぢれ菜、山東菜、紅葉苔、カキナなど）、しいたけ（飯舘村において露地で原木を用いて栽培されたものに限る。）
茨城県	ハウレンソウ、カキナ、パセリ	
栃木県	ハウレンソウ	
千葉県	・香取市及び多古町において産出されたハウレンソウ ・旭市において採取されたハウレンソウ、チンゲンサイ、シュンギク、サンチュ、セルリー及びパセリ	

(2) 水道水の飲用制限の要請 (4月15日 8:00 現在)

制限範囲	水道事業 (対象自治体)
利用するすべての住民	なし
乳児 ・ 対応を継続している水道事業	飯舘村飯舘簡易水道事業 (福島県飯舘村)
・ 対応を継続している水道用水供給事業	なし

<屋内退避圏内での暖房器具の使用に係る換気についての指示>

3月21日、原子力災害対策現地本部長から「屋内退避圏内での暖房器具の使用に係る換気について」として、一酸化炭素中毒等の防止の観点及び被ばく低減の観点から、屋内において換気を必要とする暖房器具を使用する場合の対応について屋内退避圏内の住民に周知する旨の指示を福島県知事及び市町村長 (いわき市、田村市、南相馬市、広野町、川内村、浪江町、葛尾村、飯舘村) 宛に発出。

<消防機関の活動状況>

- ・ 3月22日 11:00~14:00 頃 : 新潟市消防局及び浜松市消防局が大型除染システムの東京電力による設営を指導。
- ・ 3月23日 8:30~9:30、13:30~14:30 : 新潟市消防局及び浜松市消防局が大型除染システムの東京電力による運用を指導。

(本発表資料のお問い合わせ)

原子力安全・保安院

原子力安全広報課 : 渡邊、小山田

電話 : 03-3501-1505

03-3501-5890

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	DEBORAH SEYMOUR	404-997-4476	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	DEBORAH.SEYMOUR@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE OFFICE CELL FOR DAYTIME AND HOME PHONE AT NIGHT						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	DALE POWERS	(817) 860-8195	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DALE.POWERS@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	JOSEPHINE PICCONE	(301) 415-8429	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOSEPHINE.PICCONE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell as primary contact.						
NRR EO	ROBERT NELSON	(301) 415-7298	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	NRC Email	ROBERT.NELSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: After hours, use duty cell first then home telephone						
IRD Manager	JEFFERY GRANT	(301) 415-6693	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	JEFFERY.GRANT@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Office Cell first, then Personal Cell. Home second after hours.						
ILTAB Duty Officer	JIM WHITNEY	(301) 415-5253	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)	Verified			
	NRC Email	JAMES.WHITNEY@nrc.gov				
	Secure Cell Phone	(====> See Duty Roster Binder)				
Temp Note: Use duty pager.						
NMSS EO	ERIC BENNER	(301) 492-3294	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ERIC.BENNER@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: call blackberry first						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	DEBORAH SEYMOUR	404-997-4476	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	DEBORAH.SEYMOUR@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE OFFICE CELL FOR DAYTIME AND HOME PHONE AT NIGHT						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	DALE POWERS	(817) 860-8195	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DALE.POWERS@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	JOSEPHINE PICCONE	(301) 415-8429	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOSEPHINE.PICCONE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell as primary contact.						
NRR EO	ROBERT NELSON	(301) 415-7298	(b)(6)	(b)(6)	(b)(6) Alternate	(b)(6)
	NRC Email	ROBERT.NELSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: After hours, use duty cell first then home telephone						
IRD Manager	JEFFERY GRANT	(301) 415-6693	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
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NRC Email JEFFERY.GRANT@nrc.gov

Personal Cell Phone (b)(6) Verified

Temp Note: Office Cell first, then Personal Cell. Home second after hours.

ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
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Blackberry (b)(6)
 NRC Email MATTHEW.HAHN@nrc.gov

Temp Note: Use pager first and duty cell second

NMSS EO	ERIC BENNER	(301) 492-3294	(b)(6)	(b)(6)		
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Blackberry (b)(6)
 NRC Email ERIC.BENNER@nrc.gov

Personal Cell Phone (b)(6) Verified

Temp Note: call blackberry first

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
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NRC Email ANGELA.MCINTOSH@nrc.gov

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
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Blackberry (b)(6)
 NRC Email JOHN.THORP@nrc.gov

Personal Cell Phone (b)(6)

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	DEBORAH SEYMOUR	404-997-4476	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	DEBORAH.SEYMOUR@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE OFFICE CELL FOR DAYTIME AND HOME PHONE AT NIGHT						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	DALE POWERS	(817) 860-8195	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DALE.POWERS@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	ROBERT NELSON	(301) 415-7298	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	NRC Email	ROBERT.NELSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: After hours, use duty cell first then home telephone						
IRD Manager	JEFFERY GRANT	(301) 415-6693	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	JEFFERY.GRANT@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Office Cell first, then Personal Cell. Home second after hours.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	ERIC BENNER	(301) 492-3294	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ERIC.BENNER@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: call blackberry first						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	DEBORAH SEYMOUR	404-997-4476	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	DEBORAH.SEYMOUR@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE OFFICE CELL FOR DAYTIME AND HOME PHONE AT NIGHT						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	DALE POWERS	(817) 860-8195	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DALE.POWERS@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	ROBERT NELSON	(301) 415-7298	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	NRC Email	ROBERT.NELSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: After hours, use duty cell first then home telephone						
IRD Manager	JEFFERY GRANT	(301) 415-6693	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	JEFFERY.GRANT@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			

Temp Note: Office Cell first, then Personal Cell. Home second after hours.

ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				

Temp Note: Use pager first and duty cell second

NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Use personal cell and then blackberry

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	DEBORAH SEYMOUR	404-997-4476	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	DEBORAH.SEYMOUR@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE OFFICE CELL FOR DAYTIME AND HOME PHONE AT NIGHT						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	DALE POWERS	(817) 860-8195	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DALE.POWERS@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	ROBERT NELSON	(301) 415-7298	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	NRC Email	ROBERT.NELSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: After hours, use duty cell first then home telephone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	DALE POWERS	(817) 860-8195	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DALE.POWERS@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	ROBERT NELSON	(301) 415-7298	(b)(6)	(b)(6)	(b)(6) Alternate	(b)(6)
	NRC Email	ROBERT.NELSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: After hours, use duty cell first then home telephone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	DALE POWERS	(817) 860-8195	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DALE.POWERS@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Use Blackberry at all times.

ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				

Temp Note: Use pager first and duty cell second

NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Use personal cell and then blackberry

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	MICHAEL HAY	(817) 276-6527	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	MICHAEL.HAY@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6)	
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WAYNE SCHMIDT	(610) 337-5315	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WAYNE.SCHMIDT@nrc.gov				
Temp Note: USE DUTY CELL FIRST						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	MICHAEL HAY	(817) 276-6527	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	MICHAEL.HAY@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
Temp Note: Call duty cell first and then home						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	MICHAEL HAY	(817) 276-6527	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	MICHAEL.HAY@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
Temp Note: Call duty cell first and then home						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(770) 949-4561		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	DAVID PROULX	817-276-6561	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	DAVID.PROULX@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: DUTY CELL 1ST; THEN Blackberry						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Use Blackberry at all times.

ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				

Temp Note: Use pager first and duty cell second

NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Use personal cell and then blackberry

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WILLIAM COOK	(610) 337-5074	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WILLIAM.COOK@nrc.gov				
Temp Note: Use Duty Cell First						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	DAVID PROULX	817-276-6561	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	DAVID.PROULX@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: DUTY CELL 1ST; THEN Blackberry						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WILLIAM COOK	(610) 337-5074	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WILLIAM.COOK@nrc.gov				
Temp Note: Use Duty Cell First						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	MICHAEL HAY	(817) 276-6527	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	MICHAEL.HAY@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary-personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
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NRC Email WILLIAM.GOTT@nrc.gov

Personal Cell Phone (b)(6)

Temp Note: Use Blackberry at all times.

ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
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Blackberry (b)(6)

NRC Email MATTHEW.HAHN@nrc.gov

Temp Note: Use pager first and duty cell second

NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
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Blackberry (b)(6)

NRC Email EARL.EASTON@nrc.gov

Personal Cell Phone (b)(6)

Temp Note: Use personal cell and then blackberry

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
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NRC Email ANGELA.MCINTOSH@nrc.gov

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
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Blackberry (b)(6)

NRC Email JOHN.THORP@nrc.gov

Personal Cell Phone (b)(6)

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	WILLIAM COOK	(610) 337-5074	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	WILLIAM.COOK@nrc.gov				
Temp Note: Use Duty Cell First						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	MICHAEL HAY	(817) 276-6527	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	MICHAEL.HAY@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary-personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
		NRC Email	WILLIAM.GOTT@nrc.gov			
		Personal Cell Phone	(b)(6)			
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
		Blackberry	(b)(6)	Use 2nd		
		NRC Email	LAURA.PEARSON@nrc.gov			
		Personal Cell Phone	(b)(6)	Use 1st:	(b)(6)	
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
		Blackberry	(b)(6)			
		NRC Email	EARL.EASTON@nrc.gov			
		Personal Cell Phone	(b)(6)			
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
		NRC Email	ANGELA.MCINTOSH@nrc.gov			
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
		Blackberry	(b)(6)			
		NRC Email	JOHN.THORP@nrc.gov			
		Personal Cell Phone	(b)(6)			
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
RIDO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
v						
Temp Note: Call duty cell first and then home						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	MICHAEL HAY	(817) 276-6527	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	MICHAEL.HAY@nrc.gov				
Temp Note: Use Duty cell as primary at all times						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st;	(b)(6)	(b)(6)	
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
Temp Note: Call duty cell first and then home						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	LINDA HOWELL	(817) 860-8213	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	LINDA.HOWELL@nrc.gov				
	Personal Cell Phone	(b)(6)		Nextel cell phone		
	Secure Mobile					
	Secure Data	(301) 792-5807				
Temp Note: office cell first then home						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	WILLIAM RULAND	(301) 415-3283	(b)(6)	(b)(6)	(b)(6)	(Alternate)
	2nd Office Phone	(301) 415-2014				
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.RULAND@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Blackberry first.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st	(b)(6)	(b)(6)	
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
RIDO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
Temp Note: Call duty cell first and then home						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	LINDA HOWELL	(817) 860-8213	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	LINDA.HOWELL@nrc.gov				
	Personal Cell Phone	(b)(6)		Nextel cell phone		
	Secure Mobile					
	Secure Data	(301) 792-5807				
Temp Note: office cell first then home						
FSME EO	KEVIN O'SULLIVAN	(301) 415-8112	(b)(6)	(b)(6)		
	NRC Email	KEVIN.OSULLIVAN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Primary -personal cell phone-then FSME Blackberry						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st: (b)(6)	(b)(6)		
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
RIDO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
Temp Note: Call duty cell first and then home						
R2DO	JONATHAN BARTLEY	(404) 997-4607	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	JONATHAN.BARTLEY@nrc.gov				
Temp Note: Use Office Cell as primary						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	LINDA HOWELL	(817) 860-8213	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	LINDA.HOWELL@nrc.gov				
	Personal Cell Phone	(b)(6)		Nextel cell phone		
	Secure Mobile	(b)(6)				
	Secure Data	(301) 792-5807				
Temp Note: office cell first then home						
FSME EO	ADELAIDE GIANELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANELLI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st;	(b)(6)	(b)(6)	
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
Temp Note: Call duty cell first and then home						
R2DO	KATHLEEN O'DONOHUE	(404) 997-4469			(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	KATHLEEN.O'DONO HUE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Blackberry first then Personal Cell						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nr c.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	LINDA HOWELL	(817) 860-8213	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	LINDA.HOWELL@nrc. gov				
	Personal Cell Phone	(b)(6)		Nextel cell phone		
	Secure Mobile					
	Secure Data	(301) 792-5807				
Temp Note: office cell first then home						
FSME EO	ADELAIDE GIANTELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6)	(
	Blackberry	(b)(6)				Alternate)
	NRC Email	ALLEN.HOWE@nrc.gov				
v						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
		Personal Cell Phone	(b)(6)			
Temp Note: Call duty cell, then home.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st:	(b)(6)		
			(b)(6)			
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	EARL EASTON	301-492-3307	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	EARL.EASTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell and then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
Temp Note: Call duty cell first and then home						
R2DO	KATHLEEN O'DONOHUE	(404) 997-4469			(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	KATHLEEN.O'DONO HUE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Blackberry first then Personal Cell						
R3DO	MONTE PHILLIPS	(630) 829-9806		(b)(6)		
	NRC Email	MONTE.PHILLIPS@nr c.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell phone						
R4DO	LINDA HOWELL	(817) 860-8213	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	LINDA.HOWELL@nrc. gov				
	Personal Cell Phone	(b)(6)		Nextel cell phone		
	Secure Mobile	(b)(6)				
	Secure Data	(301) 792-5807				
Temp Note: office cell first then home						
FSME EO	ADELAIDE GIANTELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6)	(Alternate)
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.gov				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st;	(b)(6)	(b)(6)	
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	KING STABLEIN	(301) 492-3199	(b)(6)	(b)(6)		
	NRC Email	KING.STABLEIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: During business hours, use Office Phone first - After hours, use Home Phone first						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAUL KROHN	(610) 337-5120	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	PAUL.KROHN@nrc.gov				
Temp Note: Call duty cell first and then home						
R2DO	KATHLEEN O'DONOHUE	(404) 997-4469			(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	KATHLEEN.O'DONO HUE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Blackberry first then Personal Cell						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.gov				
Temp Note: Call duty cell first.						
R4DO	LINDA HOWELL	(817) 860-8213	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	LINDA.HOWELL@nrc.gov				
	Personal Cell Phone	(b)(6)		Nextel cell phone		
	Secure Mobile					
	Secure Data	(301) 792-5807				
Temp Note: office cell first then home						
FSME EO	ADELAIDE GIANTELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6)	(b)(6) Alternate)
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.gov				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st:	(b)(6)	(b)(6)	
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	KING STABLEIN	(301) 492-3199	(b)(6)	(b)(6)		
	NRC Email	KING.STABLEIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: During business hours, use Office Phone first - After hours, use Home Phone first						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	KATHLEEN O'DONOHUE	(404) 997-4469			(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	KATHLEEN.O'DONO HUE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Blackberry first then Personal Cell						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.g ov				
Temp Note: Call duty cell first.						
R4DO	LINDA HOWELL	(817) 860-8213	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	LINDA.HOWELL@nrc. gov				
	Personal Cell Phone	(b)(6)		Nextel cell phone		
	Secure Mobile					
	Secure Data	(301) 792-5807				
Temp Note: office cell first then home						
FSME EO	ADELAIDE GIANTELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6) (
					Alternate)	
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.go v				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
		Personal Cell Phone	(b)(6)			
Temp Note: Call duty cell, then home.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st;	(b)(6)		
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	KING STABLEIN	(301) 492-3199	(b)(6)	(b)(6)		
	NRC Email	KING.STABLEIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: During business hours, use Office Phone first - After hours, use Home Phone first						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	KATHLEEN O'DONOHUE	(404) 997-4469			(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	KATHLEEN.O'DONO HUE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Personal Cell first then Blackberry						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.g ov				
Temp Note: Call duty cell first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER @nrc.gov				
Temp Note:						
FSME EO	ADELAIDE GIANTELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6)	(Alternate)
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.go v				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st;	(b)(6)		
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	KING STABLEIN	(301) 492-3199	(b)(6)	(b)(6)		
	NRC Email	KING.STABLEIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: During business hours, use Office Phone first - After hours, use Home Phone first						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	KATHLEEN O'DONOHUE	(404) 997-4469			(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	KATHLEEN.O'DONO HUE@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Personal Cell first then Blackberry						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.g ov				
Temp Note: Call duty cell first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER@ nrc.gov				
Temp Note:						
FSME EO	ADELAIDE GIANTELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6)	(Alternate)
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.go v				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note:						
NMSS EO	KING STABLEIN	(301) 492-3199	(b)(6)	(b)(6)		
	NRC Email	KING.STABLEIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: During business hours, use Office Phone first - After hours, use Home Phone first						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc. gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.g ov				
Temp Note: Call duty cell first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER @nrc.gov				
Temp Note:						
FSME EO	ADELAIDE GIANELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6)	(Alternate)
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.go v				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note:						
NMSS EO	KING STABLEIN	(301) 492-3199	(b)(6)	(b)(6)		
	NRC Email	KING.STABLEIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: During business hours, use Office Phone first - After hours, use Home Phone first						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc. gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.g ov				
Temp Note: Call duty cell first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER @nrc.gov				
Temp Note:						
FSME EO	ADELAIDE GIANTELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6)	(Alternate)
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.go v				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note:						
NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE PERSONAL CELL FIRST THEN HOME						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc. gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.g ov				
Temp Note: Call duty cell first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER @nrc.gov				
Temp Note:						
FSME EO	ADELAIDE GIANELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	ALLEN HOWE	(301) 415-1351	(b)(6)	(b)(6)	(b)(6)	(b)(6)
					Alternate)	
	Blackberry	(b)(6)				
	NRC Email	ALLEN.HOWE@nrc.go v				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell, then home.						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Office Cell Phone	(b)(6)	verified			
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note:						
NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE PERSONAL CELL FIRST THEN HOME						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc. gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.g ov				
Temp Note: Call duty cell first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER @nrc.gov				
Temp Note:						
FSME EO	ADELAIDE GIANELLI	(301) 415-3521	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call BB first						
NRR EO	JOSEPH GIITTER	(301) 415-0208	(b)(6)	(b)(6)	(b)(6)	(
					Alternate)	
	2nd Office Phone	(301) 415-1453				Secretary
	Blackberry	(b)(6)				
	NRC Email	JOSEPH.GIITTER@nrc .gov				
	Personal Cell Phone	(b)(6)				Verified
Temp Note: Use Cell Phone First						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				

Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial

ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note:

NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: USE PERSONAL CELL FIRST THEN HOME

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc. gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	STEVE ORTH	(630) 810-4373	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	STEVEN.ORTH@nrc.g ov				
Temp Note: Call duty cell first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER @nrc.gov				
Temp Note:						
FSME EO	ADELAIDE GIANTELLI	(301) 415-3521	(b)(6)	(b)(6)		
	NRC Email	ADELAIDE.GIANTEL LI@nrc.gov				
	Personal Cell Phone	(b)(6)				
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nr c.gov				
	Personal Cell Phone	(b)(6)				
Temp Note:						
NRR EO	JOSEPH GIITTER	(301) 415-0208	(b)(6)	(b)(6)	(b)(6)	
					Alternate)	
	2nd Office Phone	(301) 415-1453		Secretary		
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	JOSEPH.GITTER@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Use Cell Phone First						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note:						
NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE PERSONAL CELL FIRST THEN HOME						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	PAMELA HENDERSON	(610) 337-5114		(b)(6)		
	NRC Email	PAMELA.HENDERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First, Personal Cell Second.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc. gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ROBERT DALEY	630-829-9749	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ROBERT.DALEY@nrc. gov				
Temp Note: Call Blackberry first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER @nrc.gov				
Temp Note:						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nr c.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	JOSEPH GIITTER	(301) 415-0208	(b)(6)	(b)(6)	(b)(6) (
					Alternate)	
	2nd Office Phone	(301) 415-1453				Secretary
	Blackberry	(b)(6)				
	NRC Email	JOSEPH.GIITTER@nrc .gov				
	Personal Cell Phone	(b)(6)				Verified
Temp Note: Use Cell Phone First						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
		Office Cell Phone	(b)(6)	verified		
		Blackberry				
		NRC Email	JANE.MARSHALL@nrc.gov			

Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial

ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note:

NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: USE PERSONAL CELL FIRST THEN HOME

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ROBERT DALEY	630-829-9749	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ROBERT.DALEY@nrc.gov				
Temp Note: Call Blackberry first.						
R4DO	GEOFFREY MILLER	(817) 860-8141	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GEOFFREY.MILLER@nrc.gov				
Temp Note:						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	JOSEPH GIITTER	(301) 415-0208	(b)(6)	(b)(6)	(b)(6) Alternate	
	2nd Office Phone	(301) 415-1453				Secretary
	Blackberry	(b)(6)				
	NRC Email	JOSEPH.GIITTER@nrc.gov				
	Personal Cell Phone	(b)(6)				Verified
Temp Note: Use Cell Phone First						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
		Office Cell Phone	(b)(6)	verified		
		Blackberry				
		NRC Email	JANE.MARSHALL@nrc.gov			

Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial

ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note:

NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: USE PERSONAL CELL FIRST THEN HOME

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ROBERT DALEY	630-829-9749	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ROBERT.DALEY@nrc.gov				
Temp Note: Call Blackberry first.						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	JOSEPH GIITTER	(301) 415-0208	(b)(6)	(b)(6)	(b)(6)	
	2nd Office Phone	(301) 415-1453				Secretary
	Blackberry	(b)(6)				
	NRC Email	JOSEPH.GIITTER@nrc.gov				
	Personal Cell Phone	(b)(6)				Verified
Temp Note: Use Cell Phone First						
IRD Manager	JANE MARSHALL	(301) 415-7854				JEM99@JUNO.COM

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
		Office Cell Phone	(b)(6)	verified		
		Blackberry				
		NRC Email	JANE.MARSHALL@nrc.gov			

Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial

ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note:

NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: USE PERSONAL CELL FIRST THEN HOME

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ROBERT DALEY	630-829-9749	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ROBERT.DALEY@nrc.gov				
Temp Note: Call Blackberry first.						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note:						
NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE PERSONAL CELL FIRST THEN HOME						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				

Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial

ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note:

NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: USE PERSONAL CELL FIRST THEN HOME

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6) verified				

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	DENNIS ALLSTON	(301) 415-8130	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	DENNIS.ALLSTON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note:						
NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE PERSONAL CELL FIRST THEN HOME						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	ERIC THOMAS	(301) 415-6772	(b)(6)	(b)(6)		(b)(6)
	NRC Email	ERIC.THOMAS@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Call personal cell phone first						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6) verified				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nr c.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)	(b)(6)	
	Pager	(b)(6)				
						Secondary pager. Use duty pager 1st
	NRC Email	DARYL.JOHNSON@nr c.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call home number if pager isn't responding.. Until further notice-- use pager number (b)(6)						
NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.g ov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE PERSONAL CELL FIRST THEN HOME						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	ERIC THOMAS	(301) 415-6772	(b)(6)	(b)(6)		(b)(6)
	NRC Email	ERIC.THOMAS@nrc.g ov				
	Personal Cell Phone	(b)(6)				Verified
Temp Note: Call personal cell phone first						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ANN MARIE STONE	(630) 829-9729	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ANNMARIE.STONE@nrc.gov				
Temp Note: Use Blackberry first						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nr c.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)	(b)(6)	
	Pager	(b)(6)			Secondary pager. Use duty pager 1st	
	NRC Email	DARYL.JOHNSON@nr c.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call home number if pager isn't responding.. Until further notice-- use pager number (b)(6)						
NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.g ov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE PERSONAL CELL FIRST THEN HOME						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH @nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.go v				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ROBERT DALEY	630-829-9749	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ROBERT.DALEY@nrc.gov				
Temp Note: Call Blackberry first.						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6) verified				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nr				
		c.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)	(b)(6)	
	Pager	(b)(6)				
						Secondary pager. Use duty pager 1st
	NRC Email	DARYL.JOHNSON@nr				
		c.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call home number if pager isn't responding.. Until further notice-- use pager number (b)(6)						
NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.g				
		ov				
	Personal Cell Phone	(b)(6)				
Temp Note: USE PERSONAL CELL FIRST THEN HOME						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH				
		@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.go				
		v				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	BRIAN BONSER	(404) 997-4653	(b)(6)		(b)(6)	(b)(6)
	Pager	(b)(6)				
	NRC Email	BRIAN.BONSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call personal cell phone first.						
R3DO	ROBERT DALEY	630-829-9749	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ROBERT.DALEY@nrc.gov				
Temp Note: Call Blackberry first.						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	SCOTT MORRIS	(301) 415-7083				
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			

Temp Note: Use blackberry first.

ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)	(b)(6)	
	Pager	(b)(6)	Secondary pager. Use duty pager 1st			
	NRC Email	DARYL.JOHNSON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call home number if pager isn't responding.. Until further notice-- use pager number (b)(6)

NMSS EO	ABY MOHSENI	(301) 492-3182	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	ABY.MOHSENI@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: USE PERSONAL CELL FIRST THEN HOME

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	MARVIN SYKES	(404) 997-4629	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	MARVIN.SYKES@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Office cell first, then personal cell, home phone						
R3DO	ROBERT DALEY	630-829-9749	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	ROBERT.DALEY@nrc.gov				
Temp Note: Call Blackberry first.						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	SCOTT MORRIS	(301) 415-7083				
	Blackberry	(b)(6)				

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			

Temp Note: Use blackberry first.

ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)	(b)(6)	
	Pager	(b)(6)	Secondary pager. Use duty pager 1st			
	NRC Email	DARYL.JOHNSON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call home number if pager isn't responding.. Until further notice-- use pager number (b)(6)

NMSS EO	TIM MCCARTIN	(301) 492-3167	(b)(6)	(b)(6)		
	NRC Email	TIMOTHY.MCCARTIN@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call duty cell first, then office (day) or personal cell (night)

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN CARUSO	(610) 337-5389		(b)(6)		(b)(6)
	NRC Email	JOHN.CARUSO@nrc.g				
		ov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell phone first then personal cell.						
R2DO	MARVIN SYKES	(404) 997-4629	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	MARVIN.SYKES@nrc.				
		gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Office cell first, then personal cell, home phone						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSO				
		N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.go				
		v				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nr				
		c.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) ((b)(6)
					Alternate)	
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.go				
		v				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	SCOTT MORRIS	(301) 415-7083				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)			***HOME NUMBER*** changed for Avaya export	
Temp Note: Use blackberry first.						
ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)		(b)(6)
	Pager	(b)(6)			Secondary pager. Use duty pager 1st	
	NRC Email	DARYL.JOHNSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call home number if pager isn't responding.. Until further notice- use pager number (b)(6)						
NMSS EO	TIM MCCARTIN	(301) 492-3167	(b)(6)	(b)(6)		
	NRC Email	TIMOTHY.MCCARTIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell first, then office (day) or personal cell (night)						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
RIDO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	MARVIN SYKES	(404) 997-4629	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	MARVIN.SYKES@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Office cell first, then personal cell, home phone						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	NEIL OKEEFE	(817) 860-8137	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	NEIL.OKEEFE@nrc.gov				
Temp Note: Call BB first.						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	SCOTT MORRIS	(301) 415-7083				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			
Temp Note: Use blackberry first.						
ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)	(b)(6)	
	Pager	(b)(6)	Secondary pager. Use duty pager 1st			
	NRC Email	DARYL.JOHNSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call home number if pager isn't responding.. Until further notice-- use pager number (b)(6)						
NMSS EO	TIM MCCARTIN	(301) 492-3167	(b)(6)	(b)(6)		
	NRC Email	TIMOTHY.MCCARTIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell first, then office (day) or personal cell (night)						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
RIDO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	MARVIN SYKES	(404) 997-4629	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	MARVIN.SYKES@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Office cell first, then personal cell, home phone						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	SCOTT MORRIS	(301) 415-7083				

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Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			
Temp Note: Use blackberry first.						
ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)	(b)(6)	
	Pager	(b)(6)	Secondary pager. Use duty pager 1st			
	NRC Email	DARYL.JOHNSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call home number if pager isn't responding.. Until further notice-- use pager number (b)(6)						
NMSS EO	TIM MCCARTIN	(301) 492-3167	(b)(6)	(b)(6)		
	NRC Email	TIMOTHY.MCCARTIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell first, then office (day) or personal cell (night)						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	MARVIN SYKES	(404) 997-4629	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	MARVIN.SYKES@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Office cell first, then personal cell, home phone						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
		v				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@NRC.GOV				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
		v				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	SCOTT MORRIS	(301) 415-7083				

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)		***HOME NUMBER*** changed for Avaya export		

Temp Note: Use blackberry first.

ILTAB Duty Officer	DARYL JOHNSON	(301) 415-5896	(b)(6)	(b)(6)	(b)(6)	
	Pager	(b)(6)		Secondary pager. Use duty pager 1st		
	NRC Email	DARYL.JOHNSON@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call home number if pager isn't responding.. Until further notice-- use pager number (b)(6)

NMSS EO	TIM MCCARTIN	(301) 492-3167	(b)(6)	(b)(6)		
	NRC Email	TIMOTHY.MCCARTIN@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call duty cell first, then office (day) or personal cell (night)

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	ERIC THOMAS	(301) 415-6772	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	ERIC.THOMAS@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			

Temp Note: Call personal cell phone first

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	MARVIN SYKES	(404) 997-4629	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	MARVIN.SYKES@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Office cell first, then personal cell, home phone						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@NRC.GOV				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	THOMAS BLOUNT	(301) 415-5710	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	2nd Office Phone	(301) 415-1282				
	Blackberry	(b)(6)				
	NRC Email	TOM.BLOUNT@nrc.gov				
Temp Note: Use office cell first during normal business hrs. Home phone after hours.						
IRD Manager	SCOTT MORRIS	(301) 415-7083				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)		***HOME NUMBER*** changed for Avaya export		

Temp Note: Use blackberry first.

ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)		Use 2nd		
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)		Use 1st; (b)(6)	(b)(6)	

Temp Note: On weekends, do not call pager first, use Personal Cell First.

NMSS EO	TIM MCCARTIN	(301) 492-3167	(b)(6)	(b)(6)		
	NRC Email	TIMOTHY.MCCARTIN@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call duty cell first, then office (day) or personal cell (night)

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	ERIC THOMAS	(301) 415-6772	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	ERIC.THOMAS@nrc.gov				
	Personal Cell Phone	(b)(6)		Verified		

Temp Note: Call personal cell phone first

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	MARVIN SYKES	(404) 997-4629	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	MARVIN.SYKES@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Office cell first, then personal cell, home phone						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@NRC.GOV				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	SCOTT MORRIS	(301) 415-7083				
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			
Temp Note: Use blackberry first.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st,	(b)(6)	(b)(6)	
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	TIM MCCARTIN	(301) 492-3167	(b)(6)	(b)(6)		
	NRC Email	TIMOTHY.MCCARTIN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call duty cell first, then office (day) or personal cell (night)						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	ERIC THOMAS	(301) 415-6772	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	ERIC.THOMAS@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Call personal cell phone first						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
		v				
Temp Note: Call Office Cell First						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
		v				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@NRC.GOV				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	SCOTT MORRIS	(301) 415-7083				
	Blackberry	(b)(6)				

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			

Temp Note: Use blackberry first.

ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st;	(b)(6)	(b)(6)	

Temp Note: On weekends, do not call pager first, use Personal Cell First.

NMSS EO	TIM MCCARTIN	(301) 492-3167	(b)(6)	(b)(6)	
	NRC Email	TIMOTHY.MCCARTIN@nrc.gov			
	Personal Cell Phone	(b)(6)			

Temp Note: Call duty cell first, then office (day) or personal cell (night)

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)	
	NRC Email	ANGELA.MCINTOSH@nrc.gov			

Temp Note: Call duty cell first

NRR DAYTIME EO	ERIC THOMAS	(301) 415-6772	(b)(6)	(b)(6)	(b)(6)
	NRC Email	ERIC.THOMAS@nrc.gov			
	Personal Cell Phone	(b)(6)	Verified		

Temp Note: Call personal cell phone first

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
Temp Note: Call Office Cell First						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	PAUL MICHALAK	(301) 415-7612	(b)(6)	(b)(6)		
	NRC Email	PAUL.MICHALAK@NRC.GOV				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell Phone First						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	SCOTT MORRIS	(301) 415-7083				
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			
Temp Note: Use blackberry first.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st; (b)(6)			
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Personal Cell						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	ERIC THOMAS	(301) 415-6772	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	ERIC.THOMAS@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Call personal cell phone first						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
Temp Note: Call Office Cell First						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	KEVIN HSUEH	(301) 415-7256		(b)(6)		
	2nd Office Phone	(301) 415-8727				
	Blackberry	(b)(6)				
	NRC Email	KEVIN.HSUEH@nrc.gov				
	Personal Cell Phone	(b)(6) verified				
Temp Note: Use personal cell first.						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6) Use first				
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	SCOTT MORRIS	(301) 415-7083				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)		***HOME NUMBER*** changed for Avaya export		

Temp Note: Use blackberry first.

ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)		Use 2nd		
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)		Use 1st; (b)(6)		

Temp Note: On weekends, do not call pager first, use Personal Cell First.

NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call Personal Cell

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	ERIC THOMAS	(301) 415-6772	(b)(6)	(b)(6)	(b)(6)	
	NRC Email	ERIC.THOMAS@nrc.gov				
	Personal Cell Phone	(b)(6)		Verified		

Temp Note: Call personal cell phone first

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
Temp Note: Call Office Cell First						
R3DO	HIRONORI PETERSON	(630) 829-9707	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	HIRONORI.PETERSO N@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use personal cell first						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	KEVIN HSUEH	(301) 415-7256		(b)(6)		
	2nd Office Phone	(301) 415-8727				
	Blackberry	(b)(6)				
	NRC Email	KEVIN.HSUEH@nrc.gov				
	Personal Cell Phone	(b)(6) verified				
Temp Note: Use personal cell first.						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) Alternate	(b)(6)
	Blackberry	(b)(6) Use first				
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	SCOTT MORRIS	(301) 415-7083				

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)		***HOME NUMBER*** changed for Avaya export		

Temp Note: Use blackberry first.

ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st; (b)(6)			

Temp Note: On weekends, do not call pager first, use Personal Cell First.

NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call Personal Cell

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
RIDO	RAY POWELL	(610) 337-6967	(b)(6)	(b)(6)		(b)(6)
	NRC Email	RAYMOND.POWELL@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell or duty phone						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
Temp Note: Call Office Cell First						
R3DO	JAMNES CAMERON	(630) 829-9833	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JAMNES.CAMERON@nrc.gov				
Temp Note: Call Blackberry First						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	KEVIN HSUEH	(301) 415-7256		(b)(6)		
	2nd Office Phone	(301) 415-8727				
	Blackberry	(b)(6)				
	NRC Email	KEVIN.HSUEH@nrc.gov				
	Personal Cell Phone	(b)(6) verified				
Temp Note: Use personal cell first.						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6) Use first				
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	SCOTT MORRIS	(301) 415-7083				
	Blackberry	(b)(6)				

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			
Temp Note: Use blackberry first.						
ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st: (b)(6)		(b)(6)	
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Personal Cell						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN ROGGE	(610) 337-5146	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	JOHN.ROGGE@nrc.gov				
Temp Note: Call duty cell first.						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
Temp Note: Call Office Cell First						
R3DO	JAMNES CAMERON	(630) 829-9833	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JAMNES.CAMERON@nrc.gov				
Temp Note: Call Blackberry First						
R4DO	RYAN LANTZ	(817) 860-8173	(b)(6)	(b)(6)	(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	RYAN.LANTZ@nrc.gov				
Temp Note: Call Duty Officer Cell first then Office Cell Phone then home phone						
FSME EO	KEVIN HSUEH	(301) 415-7256		(b)(6)		
	2nd Office Phone	(301) 415-8727				
	Blackberry	(b)(6)				
	NRC Email	KEVIN.HSUEH@nrc.gov				
	Personal Cell Phone	(b)(6)	verified			
Temp Note: Use personal cell first.						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	SCOTT MORRIS	(301) 415-7083				
	Blackberry	(b)(6)				

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			

Temp Note: Use blackberry first.

ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st;	(b)(6)	(b)(6)	

Temp Note: On weekends, do not call pager first, use Personal Cell First.

NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call Personal Cell

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN ROGGE	(610) 337-5146	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	JOHN.ROGGE@nrc.gov				
Temp Note: Call duty cell first.						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
Temp Note: Call Office Cell First						
R3DO	JAMNES CAMERON	(630) 829-9833	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JAMNES.CAMERON@nrc.gov				
Temp Note: Call Blackberry First						
R4DO	GREG PICK	(817) 860-8270	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GREG.PICK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Duty Cell first, Personal Cell 2nd						
FSME EO	KEVIN HSUEH	(301) 415-7256		(b)(6)		
	2nd Office Phone	(301) 415-8727				
	Blackberry	(b)(6)				
	NRC Email	KEVIN.HSUEH@nrc.gov				
	Personal Cell Phone	(b)(6)	verified			
Temp Note: Use personal cell first.						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) Alternate	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	SCOTT MORRIS	(301) 415-7083				
	Blackberry	(b)(6)				

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	SCOTT.MORRIS@nrc.gov				
	Personal Cell Phone	(b)(6)	***HOME NUMBER*** changed for Avaya export			

Temp Note: Use blackberry first.

ILTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st; (b)(6)			

Temp Note: On weekends, do not call pager first, use Personal Cell First.

NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call Personal Cell

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN ROGGE	(610) 337-5146	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	JOHN.ROGGE@nrc.gov				
Temp Note: Call duty cell first.						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
Temp Note: Call Office Cell First						
R3DO	JAMNES CAMERON	(630) 829-9833	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JAMNES.CAMERON@nrc.gov				
Temp Note: Call Blackberry First						
R4DO	GREG PICK	(817) 860-8270	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GREG.PICK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Duty Cell first, Personal Cell 2nd						
FSME EO	KEVIN HSUEH	(301) 415-7256		(b)(6)		
	2nd Office Phone	(301) 415-8727				
	Blackberry	(b)(6)				
	NRC Email	KEVIN.HSUEH@nrc.gov				
	Personal Cell Phone	(b)(6)	verified			
Temp Note: Use personal cell first.						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
LTAB Duty Officer	LAURA PEARSON	301-415-8131	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)	Use 2nd			
	NRC Email	LAURA.PEARSON@nrc.gov				
	Personal Cell Phone	(b)(6)	Use 1st; (b)(6)			
Temp Note: On weekends, do not call pager first, use Personal Cell First.						
NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Personal Cell						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN ROGGE	(610) 337-5146	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	JOHN.ROGGE@nrc.gov				
Temp Note: Call duty cell first.						
R2DO	DANIEL RICH	(404) 997-4721	(b)(6)		(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	DANIEL.RICH@nrc.gov				
Temp Note: Call Office Cell First						
R3DO	JAMNES CAMERON	(630) 829-9833	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JAMNES.CAMERON@nrc.gov				
Temp Note: Call Blackberry First						
R4DO	GREG PICK	(817) 860-8270	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GREG.PICK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Duty Cell first, Personal Cell 2nd						
FSME EO	KEVIN HSUEH	(301) 415-7256		(b)(6)		
	2nd Office Phone	(301) 415-8727				
	Blackberry	(b)(6)				
	NRC Email	KEVIN.HSUEH@nrc.gov				
	Personal Cell Phone	(b)(6)	verified			
Temp Note: Use personal cell first.						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	JIM WHITNEY	(301) 415-5253	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)	Verified			
	NRC Email	JAMES.WHITNEY@nrc.gov				
	Secure Cell Phone	(=====>	See Duty Roster Binder			
Temp Note: Use duty pager.						
NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Personal Cell						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

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Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN ROGGE	(610) 337-5146	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	JOHN.ROGGE@nrc.gov				
Temp Note: Call duty cell first.						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	JAMNES CAMERON	(630) 829-9833	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JAMNES.CAMERON@nrc.gov				
Temp Note: Call Blackberry First						
R4DO	GREG PICK	(817) 860-8270	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GREG.PICK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Duty Cell first, Personal Cell 2nd						
FSME EO	KEVIN HSUEH	(301) 415-7256		(b)(6)		
	2nd Office Phone	(301) 415-8727				
	Blackberry	(b)(6)				
	NRC Email	KEVIN.HSUEH@nrc.gov				
	Personal Cell Phone	(b)(6)	verified			
Temp Note: Use personal cell first.						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	JIM WHITNEY	(301) 415-5253	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)	Verified			
	NRC Email	JAMES.WHITNEY@nrc.gov				
	Secure Cell Phone	(=>=>=>)	See Duty Roster Binder			
Temp Note: Use duty pager.						
NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Personal Cell						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN ROGGE	(610) 337-5146	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	JOHN.ROGGE@nrc.gov				
Temp Note: Call duty cell first.						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	JAMNES CAMERON	(630) 829-9833	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JAMNES.CAMERON@nrc.gov				
Temp Note: Call Blackberry First						
R4DO	GREG PICK	(817) 860-8270	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GREG.PICK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Duty Cell first, Personal Cell 2nd						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	JIM WHITNEY	(301) 415-5253	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)	Verified			
	NRC Email	JAMES.WHITNEY@nrc.gov				
	Secure Cell Phone	(=====> See Duty Roster Binder				
Temp Note: Use duty pager.						
NMSS EO	MARISSA BAILEY	(301) 492-3264	(b)(6)	(b)(6)		
	NRC Email	MARISSA.BAILEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Personal Cell						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN ROGGE	(610) 337-5146	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	JOHN.ROGGE@nrc.gov				
Temp Note: Call duty cell first.						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	JAMNES CAMERON	(630) 829-9833	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JAMNES.CAMERON@nrc.gov				
Temp Note: Call Blackberry First						
R4DO	GREG PICK	(817) 860-8270	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	GREG.PICK@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Duty Cell first, Personal Cell 2nd						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	JIM WHITNEY	(301) 415-5253	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)	Verified			
	NRC Email	JAMES.WHITNEY@nrc.gov				
	Secure Cell Phone	See Duty Roster Binder				
Temp Note: Use duty pager.						
NMSS EO	MICHAEL TSCHILTZ	(301) 492-3206	(b)(6)	(b)(6)		
	NRC Email	MICHAEL.TSCHILTZ@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	JOHN ROGGE	(610) 337-5146	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	JOHN.ROGGE@nrc.gov				
Temp Note: Call duty cell first.						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
		NRC Email	WILLIAM.GOTT@nrc.gov			
		Personal Cell Phone	(b)(6)			
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	JIM WHITNEY	(301) 415-5253	(b)(6)	(b)(6)	(b)(6)	
		Office Cell Phone	(b)(6)	Verified		
		NRC Email	JAMES.WHITNEY@nrc.gov			
		Secure Cell Phone	See Duty Roster Binder			
Temp Note: Use duty pager.						
NMSS EO	MICHAEL TSCHILTZ	(301) 492-3206	(b)(6)	(b)(6)		
		NRC Email	MICHAEL.TSCHILTZ@nrc.gov			
		Personal Cell Phone	(b)(6)			
Temp Note: Duty Cell First						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
		NRC Email	ANGELA.MCINTOSH@nrc.gov			
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
		Blackberry	(b)(6)			
		NRC Email	JOHN.THORP@nrc.gov			
		Personal Cell Phone	(b)(6)			
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	DON JACKSON	(610) 337-5306	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	DONALD.JACKSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: 1st. Duty Cell Phone, 2nd. Blackberry, 3rd. Personal Cell						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	JIM WHITNEY	(301) 415-5253	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)	Verified			
	NRC Email	JAMES.WHITNEY@nrc.gov				
	Secure Cell Phone	See Duty Roster Binder				
Temp Note: Use duty pager.						
NMSS EO	MICHAEL TSCHILTZ	(301) 492-3206	(b)(6)	(b)(6)		
	NRC Email	MICHAEL.TSCHILTZ@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	DON JACKSON	(610) 337-5306	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	DONALD.JACKSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: 1st. Duty Cell Phone, 2nd. Blackberry, 3rd. Personal Cell						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MIKE CHEOK	(301) 415-1004	(b)(6)	(b)(6)	(b)(6) (Alternate)	(b)(6)
	Blackberry	(b)(6)	Use first			
	NRC Email	MICHAEL.CHEOK@nrc.gov				
Temp Note: Blackberry first then home phone						
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	MICHAEL TSCHILTZ	(301) 492-3206	(b)(6)	(b)(6)		
	NRC Email	MICHAEL.TSCHILTZ@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	DON JACKSON	(610) 337-5306	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	DONALD.JACKSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: 1st. Duty Cell Phone, 2nd. Blackberry, 3rd. Personal Cell						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	JOHN LUBINSKI	(301) 415-2795		(b)(6)	(b)(6)	(Alternate)
	Blackberry	(b)(6)				
	NRC Email	JOHN.LUBINSKI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: After hours, Duty Phone, Blackberry, then Personal Cell. Work hours, use Office Phone.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	WILLIAM GOTT	(301) 415-7036	(b)(6)			
	Blackberry	(b)(6)				
	NRC Email	WILLIAM.GOTT@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use Blackberry at all times.						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Use pager first and duty cell second						
NMSS EO	MICHAEL TSCHILTZ	(301) 492-3206	(b)(6)	(b)(6)		
	NRC Email	MICHAEL.TSCHILTZ@nrc.gov				
	Personal Cell Phone	(b)(6)				
	Temp Note: Duty Cell First					
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
	Personal Cell Phone	(b)(6)				
	Temp Note: Call duty cell first					
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	DON JACKSON	(610) 337-5306	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	DONALD.JACKSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: 1st. Duty Cell Phone, 2nd. Blackberry, 3rd. Personal Cell						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	JOHN LUBINSKI	(301) 415-2795		(b)(6)	(b)(6) (Alternate)	
	Blackberry	(b)(6)				
	NRC Email	JOHN.LUBINSKI@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: After hours, Duty Phone, Blackberry, then Personal Cell. Work hours, use Office Phone.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nr c.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nr c.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	MICHAEL TSCHILTZ	(301) 492-3206	(b)(6)	(b)(6)		
	NRC Email	MICHAEL.TSCHILTZ @nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Duty Cell First						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH @nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	GLENN DENTEL	(610) 337-5233	(b)(6)	(b)(6)		
	Office Cell Phone	(b)(6)				
	NRC Email	GLENN.DENTEL@nrc.gov				
Temp Note: During work hours use office phone first, after hours use home phone first						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				

Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial

ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				

Temp Note: Use pager first and duty cell second

NMSS EO	MICHAEL TSCHILTZ	(301) 492-3206	(b)(6)	(b)(6)		
	NRC Email	MICHAEL.TSCHILTZ@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Duty Cell First

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	GLENN DENTEL	(610) 337-5233	(b)(6)	(b)(6)		
	Office Cell Phone	(b)(6)				
	NRC Email	GLENN.DENTEL@nrc.gov				
Temp Note: During work hours use office phone first, after hours use home phone first						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6)	(b)(6) (Alternate)
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			

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Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	BRIAN SMITH	(301) 492-3137	(b)(6)	(b)(6)		(b)(6)
	2nd Office Phone	(301) 492-3132		Secretary		
	Blackberry	(b)(6)				
	NRC Email	BRIAN.SMITH@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Duty phone, then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	GLENN DENTEL	(610) 337-5233	(b)(6)	(b)(6)		
	Office Cell Phone	(b)(6)				
	NRC Email	GLENN.DENTEL@nrc.gov				
Temp Note: During work hours use office phone first, after hours use home phone first						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6)	(b)(6)
						Alternate)
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	BRIAN SMITH	(301) 492-3137	(b)(6)	(b)(6)		(b)(6)
	2nd Office Phone	(301) 492-3132		Secretary		
	Blackberry	(b)(6)				
	NRC Email	BRIAN.SMITH@nrc.gov				
	Personal Cell Phone	(b)(6)		Verified		
Temp Note: Duty phone, then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	GLENN DENTEL	(610) 337-5233	(b)(6)	(b)(6)		
	Office Cell Phone	(b)(6)				
	NRC Email	GLENN.DENTEL@nrc.gov				
Temp Note: During work hours use office phone first, after hours use home phone first						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	MARK RING	(630) 829-9703	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	MARK.RING@nrc.gov				
Temp Note: Use Blackberry as primary contact						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	CHRISTEPHER MCKENNEY	(301) 415-6663		(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	CHRISTEPHER.MCKENNEY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: personal cell first, then blackberry						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	BRIAN SMITH	(301) 492-3137	(b)(6)	(b)(6)		(b)(6)
	2nd Office Phone	(301) 492-3132	Secretary			
	Blackberry	(b)(6)				
	NRC Email	BRIAN.SMITH@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Duty phone, then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	GLENN DENTEL	(610) 337-5233	(b)(6)	(b)(6)		
	Office Cell Phone	(b)(6)				
	NRC Email	GLENN.DENTEL@nrc.gov				
Temp Note: During work hours use office phone first, after hours use home phone first						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	MARK RING	(630) 829-9703	(b)(6)	(b)(6)		(b)(6)
	Blackberry	(b)(6)				
	NRC Email	MARK.RING@nrc.gov				
Temp Note: Use Blackberry as primary contact						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	GREG SUBER	(301) 415-8087	(b)(6)	(b)(6)		
	Fax Number	(301) 415-5397				
	Blackberry	(b)(6)				
	NRC Email	GREGORY.SUBER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Cell first.						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6)	
					(b)(6)	Alternate)
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	BRIAN SMITH	(301) 492-3137	(b)(6)	(b)(6)		(b)(6)
	2nd Office Phone	(301) 492-3132		Secretary		
	Blackberry	(b)(6)				
	NRC Email	BRIAN.SMITH@nrc.gov				
	Personal Cell Phone	(b)(6)		Verified		
Temp Note: Duty phone, then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	GLENN DENTEL	(610) 337-5233	(b)(6)	(b)(6)		
	Office Cell Phone	(b)(6)				
	NRC Email	GLENN.DENTEL@nrc.gov				
Temp Note: During work hours use office phone first, after hours use home phone first						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	KENNETH RIEMER	(630) 829-9628	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	KENNETH.RIEMER@nrc.gov				
Temp Note: Use office cell first then office phone.						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	GREG SUBER	(301) 415-8087	(b)(6)	(b)(6)		
	Fax Number	(301) 415-5397				
	Blackberry	(b)(6)				
	NRC Email	GREGORY.SUBER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Cell first.						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6) (Alternate)	
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
		Office Cell Phone Blackberry NRC Email	(b)(6) verified			JANE.MARSHALL@nrc.gov
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
		Blackberry NRC Email	(b)(6)			MATTHEW.HAHN@nrc.gov
Temp Note: Use pager first and duty cell second						
NMSS EO	BRIAN SMITH	(301) 492-3137	(b)(6)	(b)(6)		(b)(6)
		2nd Office Phone Blackberry NRC Email	(301) 492-3132 (b)(6)	Secretary		BRIAN.SMITH@nrc.gov
		Personal Cell Phone	(b)(6)	Verified		
Temp Note: Duty phone, then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
		NRC Email				ANGELA.MCINTOSH@nrc.gov
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
		Blackberry NRC Email	(b)(6)			JOHN.THORP@nrc.gov
		Personal Cell Phone	(b)(6)			
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

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Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	GLENN DENTEL	(610) 337-5233	(b)(6)	(b)(6)		
	Office Cell Phone	(b)(6)				
	NRC Email	GLENN.DENTEL@nrc.gov				
Temp Note: During work hours use office phone first, after hours use home phone first						
R2DO	REBECCA NEASE	(404) 997-4530	(b)(6)		(b)(6)	(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	REBECCA.NEASE@nrc.gov				
Temp Note: Working hours - Office, then office cell Non-working hours - Home, then office cell						
R3DO	BILLY DICKSON	(630) 829-9827	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	BILLY.DICKSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell First						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	GREG SUBER	(301) 415-8087	(b)(6)	(b)(6)		
	Fax Number	(301) 415-5397				
	Blackberry	(b)(6)				
	NRC Email	GREGORY.SUBER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Cell first.						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6)	
					Alternate)	
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			
	Blackberry					
	NRC Email	JANE.MARSHALL@nrc.gov				
Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial						
ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nrc.gov				
Temp Note: Use pager first and duty cell second						
NMSS EO	BRIAN SMITH	(301) 492-3137	(b)(6)	(b)(6)		(b)(6)
	2nd Office Phone	(301) 492-3132	Secretary			
	Blackberry	(b)(6)				
	NRC Email	BRIAN.SMITH@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			
Temp Note: Duty phone, then blackberry						
FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				
Temp Note: Call duty cell first						
NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.						

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Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	GLENN DENTEL	(610) 337-5233	(b)(6)	(b)(6)		
	Office Cell Phone	(b)(6)				
	NRC Email	GLENN.DENTEL@nrc.gov				
Temp Note: During work hours use office phone first, after hours use home phone first						
R2DO	RANDY MUSSER	(404) 997-4603	(b)(6)		(b)(6)	(b)(6)
	NRC Email	RANDY.MUSSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Evenings - Home first, then Cell then Duty Pager Days - Office First, then Cell then Duty Pager						
R3DO	BILLY DICKSON	(630) 829-9827	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	BILLY.DICKSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell First						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	GREG SUBER	(301) 415-8087	(b)(6)	(b)(6)		
	Fax Number	(301) 415-5397				
	Blackberry	(b)(6)				
	NRC Email	GREGORY.SUBER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Cell first.						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6)	(Alternate)
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(b)(6)	verified			
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nr c.gov				

Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial

ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nr c.gov				

Temp Note: Use pager first and duty cell second

NMSS EO	BRIAN SMITH	(301) 492-3137	(b)(6)	(b)(6)		(b)(6)
	2nd Office Phone	(301) 492-3132	Secretary			
	Blackberry	(b)(6)				
	NRC Email	BRIAN.SMITH@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			

Temp Note: Duty phone, then blackberry

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
R1DO	SAM HANSELL	(610) 337-5046	(b)(6)	(b)(6)		(b)(6)
	Office Cell Phone	(b)(6)				
	NRC Email	SAMUEL.HANSELL@nrc.gov				
Temp Note: Use Office Cell first						
R2DO	RANDY MUSSER	(404) 997-4603	(b)(6)		(b)(6)	(b)(6)
	NRC Email	RANDY.MUSSER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Evenings - Home first, then Cell then Duty Pager Days - Office First, then Cell then Duty Pager						
R3DO	BILLY DICKSON	(630) 829-9827	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	BILLY.DICKSON@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Personal Cell First						
R4DO	CHUCK CAIN	(817) 860-8186	(b)(6)	(b)(6)	(b)(6)	
	Office Cell Phone	(b)(6)				
	NRC Email	CHUCK.CAIN@nrc.gov				
Temp Note:						
FSME EO	GREG SUBER	(301) 415-8087	(b)(6)	(b)(6)		
	Fax Number	(301) 415-5397				
	Blackberry	(b)(6)				
	NRC Email	GREGORY.SUBER@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: Call Cell first.						
NRR EO	MELANIE GALLOWAY	(301) 415-3300	(b)(6)	(b)(6)	(b)(6)	(Alternate)
	NRC Email	MELANIE.GALLOWAY@nrc.gov				
	Personal Cell Phone	(b)(6)				
Temp Note: FIRST PERSONAL CELL THEN USE DUTY CELL						

Call List 24 - On Duty Personnel

CALL LIST NUMBER 24

Team Name	Full Name	Office Phone #	Home Phone #	Duty Cell Phone #	Duty Pager/ Pin	Home e-mail
IRD Manager	JANE MARSHALL	(301) 415-7854				(b)(6)
	Office Cell Phone	(301) 529-6542	verified			
	Blackberry	(b)(6)				
	NRC Email	JANE.MARSHALL@nr c.gov				

Temp Note: Office Cell first, Home Second After-Hours - Jane's home # is identified as a BB for Blast Dial

ILTAB Duty Officer	MATTHEW HAHN	(301) 415-8145	(b)(6)	(b)(6)	(b)(6)	
	Blackberry	(b)(6)				
	NRC Email	MATTHEW.HAHN@nr c.gov				

Temp Note: Use pager first and duty cell second

NMSS EO	BRIAN SMITH	(301) 492-3137	(b)(6)	(b)(6)	(b)(6)	
	2nd Office Phone	(301) 492-3132	Secretary			
	Blackberry	(b)(6)				
	NRC Email	BRIAN.SMITH@nrc.gov				
	Personal Cell Phone	(b)(6)	Verified			

Temp Note: Duty phone, then blackberry

FSME DAYTIME EO	ANGELA MCINTOSH	(301) 415-5030	(b)(6)	(b)(6)		
	NRC Email	ANGELA.MCINTOSH@nrc.gov				

Temp Note: Call duty cell first

NRR DAYTIME EO	JOHN THORP	(301) 415-6584	(b)(6)	(b)(6)		
	Blackberry	(b)(6)				
	NRC Email	JOHN.THORP@nrc.gov				
	Personal Cell Phone	(b)(6)				

Temp Note: Call on Duty Cell Phone FIRST, then use personal cell, the use blackberry cell.

2011 Pay Period	Regular Hours	Night Shift Differential	Sunday Premium Hours	Holiday Hours	Holiday Premium Hours	Scheduled OT Hours	Extra OT Hours	Estimated Pay	YTD Gross Pay	Hourly Rate	Bi-Weekly Pay	YTD Actual Pay	Delta Salary	Pay Cap minus Wages
1								\$0.00						\$154,980.00
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														\$154,980.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$0.00			\$0.00		\$0.00	\$154,980.00
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My Computer

File Edit View Favorites Tools Help

Back Forward Stop Search Folders

Address My Computer

Name	Type	Size
Local Disk (C:)	Local Disk	9
System (D:)	Local Disk	1
HOO (E:)	Local Disk	3
DVD-RW Drive (F:)	CD Drive	
Hoo_notes on 'Hoodbsr1' (H:)	Network Drive	
Home on 'Hoodbsr1' (I:)	Network Drive	
Apps on 'Hoodbsr1' (J:)	Network Drive	
Hoo_apps on 'Hoodbsr1' (K:)	Network Drive	
ELibrary on 'Hoodbsr1' (L:)	Network Drive	
Nrchoans on 'hocnxt01' (M:)	Network Drive	
Natsec on 'Rcshqsr1' (N:)	Network Drive	
HOO_Procedures on 'Rcshqsr1\Iroec' (P:)	Network Drive	
Rcseoc on 'Rcshqsr1' (R:)	Network Drive	
Ftp on 'Hoodbsr1' (T:)	Network Drive	
d\$ on 'Audiolog Voice Server (b-2436)' (Z:)	Network Drive	
HP CLJ CM2320 Scan	Image scanner	

System Tasks

- View system information
- Add or remove programs
- Change a setting

Other Places

- My Network Places
- RAMQC
- Control Panel

Details

My Computer
System Folder

Attachment EN #46728 misc.pdf(11193 bytes) cannot be converted to PDF format.

Position	Date	Time	Staff
Executive Team			
ET Director			
Sat-Sun	3/19-3/20	11pm - 7am	Mike Johnson
Sun	20-Mar	7am - 3pm	Jim Wiggins
Sun	20-Mar	3pm-11pm	Brian Sheron
Sun-Mon	3/20-3/21	11pm - 7am	Mike Johnson
Mon	21-Mar	7am - 3pm	Mike Weber
Mon	21-Mar	3pm-11pm	Jim Wiggins
Mon-Tues	3/21-3/22	11pm - 7am	Mike Johnson
Tues	22-Mar	7am - 3pm	Mike Weber
Tues	22-Mar	3pm-11pm	Jim Wiggins
Tues-Wed	3/22-3/23	11pm - 7am	Bruce Boger
Wed	23-Mar	7am - 3pm	Mike Weber
Wed	23-Mar	3pm-11pm	Roy Zimmerman
Wed-Thur	3/23-3/24	11pm - 7am	Bruce Boger
Thur	24-Mar	7am - 3pm	Mike Weber
Thur	24-Mar	3pm-11pm	Roy Zimmerman
Thur-Fri	3/24-3/25	11pm - 7am	Jennifer Uhle
Fri	25-Mar	7am - 3pm	Jim Dyer
Fri	25-Mar	3pm-11pm	Roy Zimmerman
Fri-Sat	3/25-3/26	11pm-7am	Jennifer Uhle
Sat	26-Mar	7am - 3pm	Jim Dyer
Sat	26-Mar	3pm-11pm	Brian Sheron
Sat-Sun	3/26-3/27	11pm - 7am	Jennifer Uhle
ET Response Advisor			
Sat-Sun	3/19-3/20	11pm - 7am	Scott Morris
Sun	20-Mar	7am - 3pm	Chris Miller
Sun	20-Mar	3pm-11pm	Mary Jane (MJ) Ross-Lee
Sun-Mon	3/20-3/21	11pm - 7am	Scott Morris
Mon	21-Mar	7am - 3pm	Brian McDermott
Mon	21-Mar	3pm-11pm	Chris Miller
Mon-Tues	3/21-3/22	11pm - 7am	Scott Morris
Tues	22-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Tues	22-Mar	3pm-11pm	Chris Miller
Tues-Wed	3/22-3/23	11pm - 7am	Tim McGinty
Wed	23-Mar	7am - 3pm	Brian McDermott
Wed	23-Mar	3pm-11pm	Joe Giitter
Wed-Thur	3/23-3/24	11pm - 7am	Tim McGinty
Thur	24-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Thur	24-Mar	3pm-11pm	Joe Giitter
Thur-Fri	3/24-3/25	11pm - 7am	Tim McGinty
Fri	25-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Fri	25-Mar	3pm-11pm	Joe Giitter
Fri-Sat	3/25-3/26	11pm-7am	Tim McGinty
Sat	26-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee

Sat	26-Mar	3pm-11pm	Joe Giitter
Sat-Sun	3/26-3/27	11pm - 7am	Chris Miller
ET Rx Prot Measures & State Coordinator			
Sat-Sun	3/19-3/20	11pm - 7am	Rob Lewis
Sun	20-Mar	7am - 3pm	Vonna Ordaz
Sun	20-Mar	3pm-11pm	Larry Camper
Sun-Mon	3/20-3/21	11pm - 7am	Cynthia Carpenter
Mon	21-Mar	7am - 3pm	Charlie Miller
Mon	21-Mar	3pm-11pm	Larry Camper
Mon-Tues	3/21-3/22	11pm - 7am	Rob Lewis
Tues	22-Mar	7am - 3pm	Charlie Miller
Tues	22-Mar	3pm-11pm	Patricia Holahan
Tues-Wed	3/22-3/23	11pm - 7am	Cynthia Carpenter
Wed	23-Mar	7am - 3pm	Charlie Miller
Wed	23-Mar	3pm-11pm	Patricia Holahan
Wed-Thur	3/23-3/24	11pm - 7am	N/A
Thur	24-Mar	7am - 3pm	Larry Camper
Thur	24-Mar	3pm-11pm	Cynthia Carpenter
Thur-Fri	3/24-3/25	11pm - 7am	N/A
Fri	25-Mar	7am - 3pm	Cynthia Carpenter
Fri	25-Mar	3pm-11pm	Patricia Holahan
Fri-Sat	3/25-3/26	11pm-7am	N/A
Sat	26-Mar	7am - 3pm	Cynthia Carpenter
Sat	26-Mar	3pm-11pm	Scott Moore
Sat-Sun	3/26-3/27	11pm - 7am	N/A
Executive Briefing Team			
EBT Admin. Assistant			
Sat-Sun	3/19-3/20	11pm - 9am	Sapna Hurd
Sun	20-Mar	9am - 7pm	Annette Stang
Sun-Mon	3/20-3/21	7pm-7am	Carolyn Kahler
Mon	21-Mar	7am - 3pm	A. Stang (7-11) / Sapna Hurd (11-3)
Mon	21-Mar	3pm-11pm	Tia Pope
Mon-Tues	3/21-3/22	11pm - 7am	Christina Merritt
Tues	22-Mar	7am - 3pm	Carolyn Kahler/Sapna Hurd
Tues	22-Mar	3pm-11pm	Jon Fiske
Tues-Wed	3/22-3/23	11pm - 7am	Tia Pope
Wed	23-Mar	7am - 3pm	Jon Fiske
Wed	23-Mar	3pm-11pm	Annette Stang
Wed-Thur	3/23-3/24	11pm - 7am	Christina Merritt
Thur	24-Mar	7am - 3pm	Carolyn Kahler/Sapna Hurd
Thur	24-Mar	3pm-11pm	Jonathan Fiske
Thur-Fri	3/24-3/25	11pm - 7am	Tia Pope
Fri	25-Mar	7am - 3pm	Jon Fiske
Fri	25-Mar	3pm-11pm	Sapna Hurd
Fri-Sat	3/25-3/26	11pm-7am	Carolyn Kahler

Sat	26-Mar	7am - 3pm	Kelly Riner
Sat	26-Mar	3pm-11pm	Louise Lovell
Sat-Sun	3/26-3/27	11pm - 7am	Jonathan Fiske

EBT Coordinator

Sat-Sun	3/19-3/20	11pm - 7am	Jim Andersen
Sun	20-Mar	7am - 3pm	Yen-Ju Chen
Sun	20-Mar	3pm-11pm	Caroline Nguyen
Sun-Mon	3/20-3/21	11pm - 7am	Jim Andersen
Mon	21-Mar	7am - 3pm	Yen-Ju Chen
Mon	21-Mar	3pm-11pm	Sara Mroz
Mon-Tues	3/21-3/22	11pm - 7am	Jim Andersen
Tues	22-Mar	7am - 3pm	Caroline Nguyen
Tues	22-Mar	3pm-11pm	Sara Mroz
Tues-Wed	3/22-3/23	11pm - 7am	Jim Andersen
Wed	23-Mar	7am - 3pm	Yen-Ju Chen
Wed	23-Mar	3pm-11pm	Sara Mroz
Wed-Thur	3/23-3/24	11pm - 7am	Jim Andersen
Thur	24-Mar	7am - 3pm	Yen-Ju Chen
Thur	24-Mar	3pm-11pm	Sara Mroz
Thur-Fri	3/24-3/25	11pm - 7am	Jim Andersen
Fri	25-Mar	7am - 3pm	Caroline Nguyen
Fri	25-Mar	3pm-11pm	Sara Mroz
Fri-Sat	3/25-3/26	11pm-7am	Jim Andersen
Sat	26-Mar	7am - 3pm	Yen-Ju Chen/Tonya Russell
Sat	26-Mar	3pm-11pm	Sara Mroz
Sat-Sun	3/26-3/27	11pm - 7am	Jim Anderson

Executive Support Team

EST Status Officer

Sat-Sun	3/19-3/20	11pm - 7am	Doug Huyck
Sun	20-Mar	7am - 3pm	Craig Erlanger
Sun	20-Mar	3pm-11pm	John Jolicoeur
Sun-Mon	3/20-3/21	11pm - 7am	Doug Huyck
Mon	21-Mar	7am - 3pm	Jane Marshall
Mon	21-Mar	3pm-11pm	Bill Gott
Mon-Tues	3/21-3/22	11pm - 7am	Jeff Grant
Tues	22-Mar	7am - 3pm	John Jolicoeur
Tues	22-Mar	3pm-11pm	Bill Gott
Tues-Wed	3/22-3/23	11pm - 7am	Jeff Grant
Wed	23-Mar	7am - 3pm	Sally Billings/Jane Marshall
Wed	23-Mar	3pm-11pm	Bill Gott
Wed-Thur	3/23-3/24	11pm - 7am	Jeff Grant
Thur	24-Mar	7am - 3pm	Jane Marshall
Thur	24-Mar	3pm-11pm	Bill Gott
Thur-Fri	3/24-3/25	11pm - 7am	Jeff Grant
Fri	25-Mar	7am - 3pm	Jane Marshall

Fri	25-Mar	3pm-11pm	Bill Gott
Fri-Sat	3/25-3/26	11pm-7am	Jeff Grant
Sat	26-Mar	7am - 3pm	Jane Marshall
Sat	26-Mar	3pm-11pm	Bill Gott
Sat-Sun	3/26-3/27	11pm - 7am	Jeff Grant
EST Actions Officer			
Sat-Sun	3/19-3/20	11pm - 7am	Jonathan Fiske
Sun	20-Mar	7am - 3pm	Melissa Ralph
Sun	20-Mar	3pm-11pm	Jonathan Fiske
Sun-Mon	3/20-3/21	11pm - 7am	Dori Votolato-Willis
Mon	21-Mar	7am - 3pm	Melissa Ralph
Mon	21-Mar	3pm-11pm	Amanda Nerret
Mon-Tues	3/21-3/22	11pm - 7am	Kelly Grimes
Tues	22-Mar	7am - 3pm	Melissa Ralph
Tues	22-Mar	3pm-11pm	Dori Votolato-Willis
Tues-Wed	3/22-3/23	11pm - 7am	Kelly Grimes
Wed	23-Mar	7am - 3pm	Melissa Ralph
Wed	23-Mar	3pm-11pm	Dori Votolato-Willis
Wed-Thur	3/23-3/24	11pm - 7am	Kelly Grimes
Thur	24-Mar	7am - 3pm	Wendy Reed
Thur	24-Mar	3pm-11pm	Dori Votolato-Willis
Thur-Fri	3/24-3/25	11pm - 7am	N/A
Fri	25-Mar	7am - 3pm	Amanda Nerret
Fri	25-Mar	3pm-11pm	Melissa Ralph
Fri-Sat	3/25-3/26	11pm-7am	N/A
Sat	26-Mar	7am - 3pm	James Corson
Sat	26-Mar	3pm-11pm	Don Algama
Sat-Sun	3/26-3/27	11pm - 7am	N/A
EST Coordinator			
Sat-Sun	3/19-3/20	11pm - 7am	Rebecca Stone
Sun	20-Mar	7am - 3pm	Clyde Ragland
Sun	20-Mar	3pm-11pm	Tony Bowers
Sun-Mon	3/20-3/21	11pm - 7am	Rebecca Stone
Mon	21-Mar	7am - 3pm	Tony McMurtray
Mon	21-Mar	3pm-11pm	Tony Bowers
Mon-Tues	3/21-3/22	11pm - 7am	Rebecca Stone
Tues	22-Mar	7am - 3pm	Tony McMurtray
Tues	22-Mar	3pm-11pm	Clyde Ragland
Tues-Wed	3/22-3/23	11pm - 7am	Rebecca Stone
Wed	23-Mar	7am - 3pm	Tony McMurtray
Wed	23-Mar	3pm-11pm	Clyde Ragland
Wed-Thur	3/23-3/24	11pm - 7am	Rebecca Stone
Thur	24-Mar	7am - 3pm	Tony McMurtray
Thur	24-Mar	3pm-11pm	Clyde Ragland
Thur-Fri	3/24-3/25	11pm - 7am	Steve Campbell

Fri	25-Mar	7am - 3pm	Taylor Lichatz
Fri	25-Mar	3pm-11pm	Tony McMurtray
Fri-Sat	3/25-3/26	11pm-7am	Steve Campbell
Sat	26-Mar	7am - 3pm	Tonya Russell
Sat	26-Mar	3pm-11pm	Tony McMurtray
Sat-Sun	3/26-3/27	11pm - 7am	Steve Campbell
EST Chronology Officer			
Sat-Sun	3/19-3/20	11pm - 7am	Cynthia Dorsey
Sun	20-Mar	7am - 3pm	James Vaughn
Sun	20-Mar	3pm-11pm	Rebecca Karas
Sun-Mon	3/20-3/21	11pm - 7am	Mark Resner
Mon	21-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Mon	21-Mar	3pm-11pm	Rebecca Karas
Mon-Tues	3/21-3/22	11pm - 7am	Thomas Scarbrough
Tues	22-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Tues	22-Mar	3pm-11pm	Rebecca Karas
Tues-Wed	3/22-3/23	11pm - 7am	Thomas Scarbrough
Wed	23-Mar	7am - 3pm	James Vaughn
Wed	23-Mar	3pm-11pm	Rebecca Karas
Wed-Thur	3/23-3/24	11pm - 7am	Nick Ballam
Thur	24-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Thur	24-Mar	3pm-11pm	Rebecca Karas
Thur-Fri	3/24-3/25	11pm - 7am	Thomas Scarbrough
Fri	25-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Fri	25-Mar	3pm-11pm	Rebecca Karas
Fri-Sat	3/25-3/26	11pm-7am	Thomas Scarbrough
Sat	26-Mar	7am - 3pm	Nick Ballam
Sat	26-Mar	3pm-11pm	Rebecca Karas
Sat-Sun	3/26-3/27	11pm - 7am	Thomas Scarbrough
EST Response Ops Mgr			
Sat-Sun	3/19-3/20	11pm - 7am	Jean Trefethan
Sun	20-Mar	7am - 3pm	Karen Jackson
Sun	20-Mar	3pm-11pm	Roberto Figueroa
Sun-Mon	3/20-3/21	11pm - 7am	Jean Trefethan
Mon	21-Mar	7am - 3pm	Bob Stransky
Mon	21-Mar	3pm-11pm	Omar Khan
Mon-Tues	3/21-3/22	11pm - 7am	Cris Brown
Tues	22-Mar	7am - 3pm	Bob Stransky
Tues	22-Mar	3pm-11pm	Karen Jackson
Tues-Wed	3/22-3/23	11pm - 7am	Roberto Figueroa
Wed	23-Mar	7am - 3pm	Bob Stransky
Wed	23-Mar	3pm-11pm	Jean Trefethan
Wed-Thur	3/23-3/24	11pm - 7am	Cris Brown
Thur	24-Mar	7am - 3pm	Karen Jackson
Thur	24-Mar	3pm-11pm	Omar Khan

Thur-Fri	3/24-3/25	11pm - 7am	Roberto Figueroa
Fri	25-Mar	7am - 3pm	Jean Trefethan
Fri	25-Mar	3pm-11pm	Cris Brown
Fri-Sat	3/25-3/26	11pm-7am	Roberto Figueroa
Sat	26-Mar	7am - 3pm	Omar Khan
Sat	26-Mar	3pm-11pm	Cris Brown
Sat-Sun	3/26-3/27	11pm - 7am	Roberto Figueroa

EST Admin. Assistant

Sat-Sun	3/19-3/20	11pm - 7am	Chris Lamb
Sun	20-Mar	7am - 3pm	Karen Meyer
Sun	20-Mar	3pm-11pm	Linda Williamson
Sun-Mon	3/20-3/21	11pm - 7am	Chris Lamb
Mon	21-Mar	7am - 3pm	Karen Meyer
Mon	21-Mar	3pm-11pm	Mary Glenn Crutchley
Mon-Tues	3/21-3/22	11pm - 7am	Andrea Wimbush
Tues	22-Mar	7am - 3pm	Cynthia Dorsey
Tues	22-Mar	3pm-11pm	Mary Glenn Crutchley
Tues-Wed	3/22-3/23	11pm - 7am	Michelle Manahan
Wed	23-Mar	7am - 3pm	Karen Meyer
Wed	23-Mar	3pm-11pm	Mary Glenn Crutchley
Wed-Thur	3/23-3/24	11pm - 7am	Andrea Wimbush
Thur	24-Mar	7am - 3pm	Cynthia Dorsey
Thur	24-Mar	3pm-11pm	Mary Glenn Crutchley
Thur-Fri	3/24-3/25	11pm - 7am	N/A
Fri	25-Mar	7am - 3pm	Karen Meyer
Fri	25-Mar	3pm-11pm	Cynthia Dorsey
Fri-Sat	3/25-3/26	11pm-7am	N/A
Sat	26-Mar	7am - 3pm	Karen Meyer
Sat	26-Mar	3pm-11pm	Cynthia Dorsey
Sat-Sun	3/26-3/27	11pm - 7am	N/A

Liaison Team

LT Director

Sat-Sun	3/19-3/20	11pm - 7am	John Adams
Sun	20-Mar	7am - 3pm	Tom Bergman
Sun	20-Mar	3pm-11pm	Bob Webber
Sun-Mon	3/20-3/21	11pm - 7am	John Adams
Mon	21-Mar	7am - 3pm	Tom Bergman
Mon	21-Mar	3pm-11pm	Bob Webber
Mon-Tues	3/21-3/22	11pm - 7am	John Adams
Tues	22-Mar	7am - 3pm	Tom Bergman
Tues	22-Mar	3pm-11pm	Bob Webber
Tues-Wed	3/22-3/23	11pm - 7am	John Adams
Wed	23-Mar	7am - 3pm	Michael Tschiltz
Wed	23-Mar	3pm-11pm	Rich Correia
Wed-Thur	3/23-3/24	11pm - 7am	Jake Zimmerman

Thur	24-Mar	7am - 3pm	Michael Tschiltz
Thur	24-Mar	3pm-11pm	Rich Correia
Thur-Fri	3/24-3/25	11pm - 7am	Jake Zimmerman
Fri	25-Mar	7am - 3pm	Michael Tschiltz
Fri	25-Mar	3pm-11pm	Rich Correia
Fri-Sat	3/25-3/26	11pm-7am	Jake Zimmerman
Sat	26-Mar	7am - 3pm	Michael Tschiltz
Sat	26-Mar	3pm-11pm	Rich Correia
Sat-Sun	3/26-3/27	11pm - 7am	Marissa Bailey

LT Coordinator

Sat-Sun	3/19-3/20	11pm - 7am	Janelle Jessie
Sun	20-Mar	7am - 3pm	Jeff Temple
Sun	20-Mar	3pm-11pm	Nathan Sanfilippo
Sun-Mon	3/20-3/21	11pm - 7am	Milt Murray
Mon	21-Mar	7am - 3pm	Jeff Temple
Mon	21-Mar	3pm-11pm	Nathan Sanfilippo
Mon-Tues	3/21-3/22	11pm - 7am	Milt Murray
Tues	22-Mar	7am - 3pm	Rani Franovich
Tues	22-Mar	3pm-11pm	Nathan Sanfilippo
Tues-Wed	3/22-3/23	11pm - 7am	Milt Murray
Wed	23-Mar	7am - 3pm	Rani Franovich
Wed	23-Mar	3pm-11pm	Jeff Temple
Wed-Thur	3/23-3/24	11pm - 7am	Milt Murray
Thur	24-Mar	7am - 3pm	Rani Franovich
Thur	24-Mar	3pm-11pm	Jeff Temple
Thur-Fri	3/24-3/25	11pm - 7am	Milt Murray
Fri	25-Mar	7am - 3pm	Janelle Jessie
Fri	25-Mar	3pm-11pm	Rani Franovich
Fri-Sat	3/25-3/26	11pm-7am	Milt Murray
Sat	26-Mar	7am - 3pm	Janelle Jessie
Sat	26-Mar	3pm-11pm	Rani Franovich
Sat-Sun	3/26-3/27	11pm - 7am	Milt Murray

LT State Liaison

Sat-Sun	3/19-3/20	9pm-7am	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Sun	20-Mar	7am-2pm	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Sun	20-Mar	2pm-9pm	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Sun-Mon	3/20-3/21	9pm-7am	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Mon	21-Mar	7am-2pm	Flannery (Riveria-On Call)
Mon	21-Mar	2pm-9pm	Easson (Turttil-On Call)
Mon-Tue	3/21-3/22	9pm-7am	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Tue	22-Mar	7am-2pm	Maupin
Tue	22-Mar	2pm-9pm	Easson/Michelle Ryan
Tue-Wed	3/22-3/23	9pm-7am	Alison Rivera/Amanda Noonan (ON CALL ONLY)
Wed	23-Mar	7am-2pm	Maupin
Wed	23-Mar	2pm-9pm	Alison Rivera

Wed-Thur	3/23-3/24	9pm-7am	Michelle Ryan/Turtill (ON CALL ONLY)
Thur	24-Mar	7am-2pm	Flannery
Thur	24-Mar	2pm-9pm	Amanda Noonan
Thur-Fri	3/24-3/25	9pm-7am	Rivera/Turtill (ON CALL ONLY)
Fri	25-Mar	7am-2pm	Kim Lukes
Fri	25-Mar	2pm-9pm	Michelle Ryan
Fri-Sat	3/25-3/26	9pm-7am	Alison Rivera/Amanda Noonan (ON CALL ONLY)
Sat	26-Mar	7am-2pm	Michelle Ryan/Amanda Noonan (ON CALL ONLY)
Sat	26-Mar	2pm-9pm	Michelle Ryan/Amanda Noonan (ON CALL ONLY)
Sat-Sun	3/26-3/27	9pm-7am	Michelle Rivera/Amanda Noonan (ON CALL ONLY)
LT Federal Liaison (2)			
Sun	20-Mar	7am - 3pm	Ned Wright
Sun	20-Mar	3pm-11pm	Jeff Temple
Sun-Mon	3/20-3/21	11pm - 7am	Scott Sloan
Sun-Mon	3/20-3/21	11pm - 7am	Lisa Wright
Mon	21-Mar	7am - 3pm	Beth Reed/Ted Smith
Mon	21-Mar	3pm-11pm	Ned Wright
Mon-Tues	3/21-3/22	11pm - 7am	Lisa Wright
Tues	22-Mar	7am - 3pm	Beth Reed/Ted Smith
Tues	22-Mar	3pm-11pm	Ned Wright
Tues-Wed	3/22-3/23	11pm - 7am	Lisa Wright
Wed	23-Mar	7am - 3pm	Jerry Hale/Ted Smith
Wed	23-Mar	3pm-11pm	Ned Wright
Wed-Thur	3/23-3/24	11pm - 7am	Lisa Wright
Thur	24-Mar	7am - 3pm	Ted Smith/Bethany Cecere
Thur	24-Mar	3pm-11pm	Jerry Hale
Thur-Fri	3/24-3/25	11pm - 7am	Scott Sloan
Fri	25-Mar	7am - 3pm	Ted Smith/Bethany Cecere
Fri	25-Mar	3pm-11pm	Jason Lising
Fri-Sat	3/25-3/26	11pm-7am	Scott Sloan
Sat	26-Mar	7am - 3pm	Jason Lising/Lisa Gibney
Sat	26-Mar	3pm-11pm	Jeff Temple
Sat-Sun	3/26-3/27	11pm - 7am	Scott Sloan
LT Congressional Liaison (2)			
Sun	20-Mar	7am - 2pm	Rebecca Schmidt
	20-Mar	2pm-9pm	Reanne Shane
Mon	21-Mar	7am - 2pm	Spiros Droggitis
	21-Mar	2pm-9pm	Tim Riley
Tues	22-Mar	7am - 2pm	Tim Riley
	22-Mar	2pm-9pm	Spiros Droggitis
Wed	23-Mar	7am - 2pm	Gene Dacus
	23-Mar	2pm-9pm	Raeann Shane
Thur	24-Mar	7am - 2pm	Spiros Droggitis
	24-Mar	2pm-9pm	Raeann Shane
Fri	25-Mar	7am - 2pm	Gene Dacus

	25-Mar	2pm-9pm	Amy Powell
Sat	26-Mar	7am - 3pm	Amy Powell (ON CALL ONLY)
Sat	26-Mar	3pm-11pm	Amy Powell (ON CALL ONLY)
Sun	3/26-3/27	11pm - 7am	Amy Powell (ON CALL ONLY)

LT International Liaison (2)

Sat-Sun	3/19-3/20	11pm - 7am	Elizabeth Smirolfo/Danielle Emche
Sun	20-Mar	7am - 3pm	Karen Henderson/Steve Baker
Sun	20-Mar	3pm-11pm	Eric Stahl/Nancy Fragoyanis
Sun-Mon	3/20-3/21	11pm - 7am	Elizabeth Smirolfo/Jenny Tobin
Mon	21-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3)
Mon	21-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Mon-Tues	3/21-3/22	11pm - 7am	Eric Stahl/Mugeh Afshar-Tous
Tues	22-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3)
Tues	22-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Tues-Wed	3/22-3/23	11pm - 7am	Eric Stahl/Mugeh
Wed	23-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3)
Wed	23-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Wed-Thur	3/23-3/24	11pm - 7am	Eric Stahl/Mugeh
Thur	24-Mar	7am - 3pm	Steve Bloom/Lance English
Thur	24-Mar	3pm-11pm	Janice/Jenny Tobin
Thur-Fri	3/24-3/25	11pm - 7am	Andrea/Elizabeth Smirolfo
Fri	25-Mar	7am - 3pm	Steve Bloom/Lance English
Fri	25-Mar	3pm-11pm	Janice/Jenny Tobin
Fri-Sat	3/25-3/26	11pm-7am	Andrea/Elizabeth Smirolfo
Sat	26-Mar	7am - 3pm	Steve Bloom / Lance English
Sat	26-Mar	3pm-11pm	Janice Owens / Jenny Tobin
Sat-Sun	3/26-3/27	11pm - 7am	Cindy Rosales/ Elizabeth Smirolfo

Protective Measures Team

PMTR Director

Sat-Sun	3/19-3/20	11pm - 7am	Kathy Gibson
Sun	20-Mar	7am - 3pm	John Lubinski
Sun	20-Mar	3pm-11pm	Don Cool
Sun-Mon	3/20-3/21	11pm - 7am	Kathy Gibson
Mon	21-Mar	7am - 3pm	John Lubinski
Mon	21-Mar	3pm-11pm	Don Cool
Mon-Tues	3/21-3/22	11pm - 7am	John Tappert
Tues	22-Mar	7am - 3pm	John Lubinski
Tues	22-Mar	3pm-11pm	Don Cool
Tues-Wed	3/22-3/23	11pm - 7am	John Tappert
Wed	23-Mar	7am - 3pm	Terry Reis
Wed	23-Mar	3pm-11pm	Cindy Jones
Wed-Thur	3/23-3/24	11pm - 7am	Randy Sullivan
Thur	24-Mar	7am - 3pm	Terry Reis
Thur	24-Mar	5pm-11pm	Cindy Jones
Thur-Fri	3/24-3/25	11pm - 7am	Randy Sullivan

Fri	25-Mar	7am - 3pm	Terry Reis
Fri	25-Mar	5pm-11pm	Cindy Jones
Fri-Sat	3/25-3/26	11pm-7am	Randy Sullivan
Sat	26-Mar	7am - 3pm	Terry Reis
Sat	26-Mar	3pm-11pm	Cindy Jones
Sat-Sun	3/26-3/27	11pm - 7am	Randy Sullivan
PMTR Coordinator			
Sat-Sun	3/19-3/20	11pm - 7am	Lou Brandon
Sun	20-Mar	7am - 3pm	Nima Ashkeboussi
Sun	20-Mar	3pm-11pm	Jay Patel
Sun-Mon	3/20-3/21	11pm - 7am	Lou Brandon
Mon	21-Mar	7am - 3pm	Prosanta Chowdhury (8 am)
Mon	21-Mar	3pm-11pm	Jay Patel
Mon-Tues	3/21-3/22	11pm - 7am	Lou Brandon
Tues	22-Mar	7am - 3pm	Prosanta Chowdhury (8 am)
Tues	22-Mar	3pm-11pm	Nima Ashkeboussi
Tues-Wed	3/22-3/23	11pm - 7am	Mike Norris
Wed	23-Mar	7am - 3pm	John Wray
Wed	23-Mar	3pm-11pm	Nima Ashkeboussi
Wed-Thur	3/23-3/24	11pm - 7am	Mike Norris
Thur	24-Mar	7am - 3pm	John Wray
Thur	24-Mar	3pm-11pm	Jay Patel/Joe DeCicco
Thur-Fri	3/24-3/25	11pm - 7am	Mike Norris
Fri	25-Mar	7am - 3pm	Duane Hardesty/Joe DeCicco
Fri	25-Mar	3pm-11pm	Ryan Craffey
Fri-Sat	3/25-3/26	11pm-7am	Lou Brandon
Sat	26-Mar	7am - 3pm	Arlon Costa
Sat	26-Mar	3pm-11pm	Kimberly Hardin
Sat-Sun	3/26-3/27	11pm - 7am	Lou Brandon
PMTR Prot Actions Asst Dir			
Sat-Sun	3/19-3/20	11pm - 7am	Greg Casto
Sun	20-Mar	7am - 3pm	Kathryn Brock
Sun	20-Mar	3pm-11pm	Tim Harris
Sun-Mon	3/20-3/21	11pm - 7am	Greg Casto (Jessica Kratchman - to shadow)
Mon	21-Mar	7am - 3pm	Kathryn Brock
Mon	21-Mar	3pm-11pm	Dan Barss
Mon-Tues	3/21-3/22	11pm - 7am	Jessica Kratchman
Tues	22-Mar	7am - 3pm	Kathryn Brock
Tues	22-Mar	3pm-11pm	Tim Harris
Tues-Wed	3/22-3/23	11pm - 7am	Jessica Kratchman
Wed	23-Mar	7am - 3pm	Sandra Wastler
Wed	23-Mar	3pm-11pm	Vince Holahan
Wed-Thur	3/23-3/24	11pm - 7am	Jessica Kratchman
Thur	24-Mar	7am - 3pm	Sandra Wastler
Thur	24-Mar	3pm-11pm	Stacey Rosenberg

Thur-Fri	3/24-3/25	11pm - 7am	Jessica Kratchman
Fri	25-Mar	7am - 3pm	Kathryn Brock
Fri	25-Mar	3pm-11pm	Vince Holahan
Fri-Sat	3/25-3/26	11pm-7am	Greg Casto
Sat	26-Mar	7am - 3pm	Dan Barss
Sat	26-Mar	3pm-11pm	Sandra Wastler
Sat-Sun	3/26-3/27	11pm - 7am	Greg Casto/Jessica Kratchman

PMTR RAAD

Sat-Sun	3/19-3/20	11pm - 7am	Patricia Milligan
Sun	20-Mar	7am - 3pm	Eric Schrader
Sun	20-Mar	3pm-11pm	Steve LaVie
Sun-Mon	3/20-3/21	11pm - 7am	Mike Norris
Mon	21-Mar	7am - 3pm	Michelle Hart
Mon	21-Mar	3pm-11pm	Steve Lavie
Mon-Tues	3/21-3/22	11pm - 7am	Boby Abu-Eid
Tues	22-Mar	7am - 3pm	Bruce Watson
Tues	22-Mar	3pm-11pm	Steve LaVie
Tues-Wed	3/22-3/23	11pm - 7am	Boby Abu-Eid
Wed	23-Mar	7am - 3pm	Bruce Watson
Wed	23-Mar	3pm-11pm	Michelle Hart
Wed-Thur	3/23-3/24	11pm - 7am	Duane Schmidt
Thur	24-Mar	7am - 3pm	Bruce Watson
Thur	24-Mar	3pm-11pm	Steve LaVie
Thur-Fri	3/24-3/25	11pm - 7am	Cynthia Barr
Fri	25-Mar	7am - 3pm	Randy Sullivan
Fri	25-Mar	3pm-11pm	Michelle Hart
Fri-Sat	3/25-3/26	11pm-7am	Cynthia Barr
Sat	26-Mar	7am - 3pm	Kathy Brock
Sat	26-Mar	3pm-11pm	Steve LaVie
Sat-Sun	3/26-3/27	11pm - 7am	Mike Norris

PMTR Dose Assessment (RASCAL) - Need 2

Sat-Sun	3/19-3/20	11pm - 7am	Kimberly Gambone/John Parillo
Sun	20-Mar	7am - 3pm	Casper Sun / Duane Schmidt
Sun	20-Mar	3pm-11pm	Margaret Cervera / Tony Huffert
Sun-Mon	3/20-3/21	11pm - 7am	Kimberly Gambone/John Parillo
Mon	21-Mar	7am - 3pm	Eric Schrader/Rich Clement
Mon	21-Mar	3pm-11pm	Margaret Cervera/Tony Huffert
Mon-Tues	3/21-3/22	11pm - 7am	John Parillo / Bernie White
Tues	22-Mar	7am - 3pm	Eric Schrader/Rich Clement
Tues	22-Mar	3pm-11pm	Gary Purdy/Casper Sun
Tues-Wed	3/22-3/23	11pm - 7am	Margaret Cervera/Tony Huffert
Wed	23-Mar	7am - 3pm	Eric Schrader/Rich Clement
Wed	23-Mar	3pm-11pm	Kimberly Gambone/Casper Sun
Wed-Thur	3/23-3/24	11pm - 7am	Tony Huffert/John Parillo
Thur	24-Mar	7am - 3pm	Eric Schrader/Rich Clement

Thur	24-Mar	3pm-11pm	Kimberly Gambone/Casper Sun
Thur-Fri	3/24-3/25	11pm - 7am	Tony Huffert/John Parillo
Fri	25-Mar	7am - 3pm	Eric Schrader/Rich Clement
Fri	25-Mar	3pm-11pm	Gary Purdy/Casper Sun
Fri-Sat	3/25-3/26	11pm-7am	John Parillo / Bernie White
Sat	26-Mar	7am - 3pm	Tony Huffert/Charlie Hinson
Sat	26-Mar	3pm-11pm	Leroy Hardin/Gary Purdy? (as last resort)
Sat-Sun	3/26-3/27	11pm - 7am	John Parillo/Ron LaVera

PMTR GIS Analyst

Sun-Mon	3/20-3/21	11pm - 7am	Alice Stieve
Mon	21-Mar	7am - 3pm	Nebiyu Tiruneh
Mon	21-Mar	3pm-11pm	Stephanie Devlin
Mon-Tues	3/21-3/22	11pm - 7am	Alice Stieve
Tues	22-Mar	7am - 3pm	Yong Li
Tues	22-Mar	3pm-11pm	Stephanie Devlin
Tues-Wed	3/22-3/23	11pm - 7am	Alice Stieve
Wed	23-Mar	7am - 3pm	Allen Gross
Wed	23-Mar	3pm-11pm	Stephanie Devlin
Wed-Thur	3/23-3/24	11pm - 7am	Phil Brandt
Thur	24-Mar	7am - 3pm	Yong Li
Thur	24-Mar	3pm-11pm	Stephanie Devlin
Thur-Fri	3/24-3/25	11pm - 7am	Dogan Seber
Fri	25-Mar	7am - 3pm	Allen Gross
Fri	25-Mar	3pm-11pm	Stephanie Devlin
Fri-Sat	3/25-3/26	11pm-7am	Phil Brandt
Sat	26-Mar	7am - 3pm	Nebiyu Tiruneh
Sat	26-Mar	3pm-11pm	Dan Barnhurst
Sat-Sun	3/26-3/27	11pm - 7am	Hosung Ahn

PMTR Meteorologist

Sat-Sun	19-Mar	3pm-11pm	Mike Mazaika
Sun	3/19-3/20	11pm - 7am	David Brown
Sun	20-Mar	7am - 3pm	Kevin Quinlan
Sun	20-Mar	3pm-11pm	Mike Mazaika
Sun-Mon	3/20-3/21	11pm - 7am	David Brown
Mon	21-Mar	7am - 3pm	Mike Mazaika
Mon	21-Mar	3pm-11pm	Brad Harvey
Mon-Tues	3/21-3/22	11pm - 7am	Kevin Quinlan
Tues	22-Mar	7am - 3pm	David Brown
Tues	22-Mar	3pm-11pm	Brad Harvey
Tues-Wed	3/22-3/23	11pm - 7am	Andy Imboden/Kevin Quinlan
Wed	23-Mar	7am - 3pm	Mike Mazaika
Wed	23-Mar	3pm-11pm	Brad Harvey
Wed-Thur	3/23-3/24	11pm - 7am	Kevin Quinlan
Thur	24-Mar	7am - 3pm	David Brown
Thur	24-Mar	3pm-11pm	Brad Harvey

Thur-Fri	3/24-3/25	11pm - 7am	Kevin Quinlan
Fri	25-Mar	7am - 3pm	Mike Mazaika
Fri	25-Mar	3pm-11pm	Brad Harvey
Fri-Sat	3/25-3/26	11pm-7am	Kevin Quinlan
Sat	26-Mar	7am - 3pm	Andy Imboden
Sat	26-Mar	3pm-11pm	Brad Harvey
Sat-Sun	3/26-3/27	11pm - 7am	Kevin Quinlan
Reactor Safety Team			
RST Director			
Sat-Sun	3/19-3/20	11pm - 7am	Jennifer Uhle
Sun	20-Mar	7am - 3pm	Laura Dudes
Sun	20-Mar	3pm-11pm	Dave Skeen
Sun-Mon	3/20-3/21	11pm - 7am	Jennifer Uhle
Mon	21-Mar	7am - 3pm	Fred Brown
Mon	21-Mar	3pm-11pm	Dave Skeen
Mon-Tues	3/21-3/22	11pm - 7am	Jennifer Uhle
Tues	22-Mar	7am - 3pm	Fred Brown
Tues	22-Mar	3pm-11pm	Dave Skeen
Tues-Wed	3/22-3/23	11pm - 7am	Brian Holian
Wed	23-Mar	7am - 3pm	Fred Brown
Wed	23-Mar	3pm-11pm	Bill Ruland
Wed-Thur	3/23-3/24	11pm - 7am	Brian Holian
Thur	24-Mar	7am - 3pm	Fred Brown
Thur	24-Mar	3pm-11pm	Bill Ruland
Thur-Fri	3/24-3/25	11pm - 7am	Brian Holian
Fri	25-Mar	7am - 3pm	Pat Hiland
Fri	25-Mar	3pm-11pm	Bill Ruland
Fri-Sat	3/25-3/26	11pm-7am	Brian Holian
Sat	26-Mar	7am - 3pm	Pat Hiland
Sat	26-Mar	3pm-11pm	Bill Ruland
Sat	3/26-27/2011	11pm - 7am	Dave Skeen
RST Coordinator			
Sat-Sun	3/19-3/20	11pm - 7am	Frank Collins
Sun	20-Mar	7am - 3pm	Peter Alter
Sun	20-Mar	3pm-11pm	Eric Thomas
Sun-Mon	3/20-3/21	11pm - 7am	Mike Morlang
Mon	21-Mar	7am - 3pm	Peter Alter
Mon	21-Mar	3pm-11pm	Greg Schoenebeck
Mon-Tues	3/21-3/22	11pm - 7am	Frank Collins
Tues	22-Mar	7am - 3pm	Rick Hasselberg
Tues	22-Mar	3pm-11pm	Mike Morlang
Tues-Wed	3/22-3/23	11pm - 7am	Oleg Bukharin
Wed	23-Mar	7am - 3pm	Eric Thomas
Wed	23-Mar	3pm-11pm	Greg Schoenebeck
Wed-Thur	3/23-3/24	11pm - 7am	Frank Collins

Thur	24-Mar	7am - 3pm	Rick Hasselberg
Thur	24-Mar	3pm-11pm	Brett Rini
Thur-Fri	3/24-3/25	11pm - 7am	Tom Boyce (RES)
Fri	25-Mar	7am - 3pm	Eric Thomas
Fri	25-Mar	3pm-11pm	Brett Rini
Fri-Sat	3/25-3/26	11pm-7am	Frank Collins
Sat	26-Mar	7am - 3pm	Eric Thomas
Sat	26-Mar	3pm-11pm	Mark Orr
Sat-Sun	3/26-3/27	11pm - 7am	Brett Rini

Severe Accident/PRA

Sat-Sun	3/19-3/20	11pm - 7am	Mike Salay
Sun	20-Mar	7am - 3pm	John Lane
Sun	20-Mar	3pm-11pm	Jim Gilmer
Sun-Mon	3/20-3/21	11pm - 7am	Don Dube
Mon	21-Mar	7am - 3pm	Jeff Circle
Mon	21-Mar	3pm-11pm	Hossein Esmaili
Mon-Tues	3/21-3/22	11pm - 7am	Jim Gilmer
Tues	22-Mar	7am - 3pm	Ed Fuller
Tues	22-Mar	3pm-11pm	Len Ward
Tues-Wed	3/22-3/23	11pm - 7am	Sam Miranda
Wed	23-Mar	7am - 3pm	Jeff Circle
Wed	23-Mar	3pm-11pm	Steven Arndt
Wed-Thur	3/23-3/24	11pm - 7am	Mike Salay
Thur	24-Mar	7am - 3pm	Jeff Circle
Thur	24-Mar	3pm-11pm	Steve Laur
Thur-Fri	3/24-3/25	11pm - 7am	Don Helton
Fri	25-Mar	7am - 3pm	Steven Arndt
Fri	25-Mar	3pm-11pm	Steve Laur
Fri-Sat	3/25-3/26	11pm-7am	Don Helton
Sat	26-Mar	7am - 3pm	Steven Arndt
Sat	26-Mar	3pm-11pm	
Sat-Sun	3/26-3/27	11pm - 7am	Ray Skarda

BWR Expertise

Sat-Sun	3/19-3/20	11pm - 7am	John Kauffman
Sun	20-Mar	7am - 3pm	Larry Vick
Sun	20-Mar	3pm-11pm	Chuck Norton
Sun-Mon	3/20-3/21	11pm - 7am	Mike Brown
Mon	21-Mar	7am - 3pm	Bob Summers
Mon	21-Mar	3pm-11pm	Chuck Norton
Mon-Tues	3/21-3/22	11pm - 7am	Mike Brown
Tues	22-Mar	7am - 3pm	Tom Boyce (RES)
Tues	22-Mar	3pm-11pm	Chuck Norton
Tues-Wed	3/22-3/23	11pm - 7am	Mike Brown
Wed	23-Mar	7am - 3pm	Larry Vick
Wed	23-Mar	3pm-11pm	Chuck Norton

Wed-Thur	3/23-3/24	11pm - 7am	Eva Brown
Thur	24-Mar	7am - 3pm	Peter Alter
Thur	24-Mar	3pm-11pm	Chuck Norton
Thur-Fri	3/24-3/25	11pm - 7am	Eva Brown
Fri	25-Mar	7am - 3pm	Bob Summers
Fri	25-Mar	3pm-11pm	Chuck Norton
Fri-Sat	3/25-3/26	11pm-7am	Eva Brown
Sat	26-Mar	7am - 3pm	Mike Brown
Sat	26-Mar	3pm-11pm	Chuck Norton
Sat-Sun	3/26-3/27	11pm - 7am	
RST Comm/ERDS Operator			
Sat-Sun	3/19-3/20	11pm - 7am	Ujagar Bhachu
Sun	20-Mar	7am - 3pm	Denise McGovern
Sun	20-Mar	3pm-11pm	Donna Williams
Sun-Mon	3/20-3/21	11pm - 7am	Ujagar Bhachu
Mon	21-Mar	7am - 3pm	Joseph Williams
Mon	21-Mar	3pm-11pm	John Thorp
Mon-Tues	3/21-3/22	11pm - 7am	Bill Roggenbrodt
Tues	22-Mar	7am - 3pm	Steve Bloom
Tues	22-Mar	3pm-11pm	Jim Isom
Tues-Wed	3/22-3/23	11pm - 7am	Bill Roggenbrodt
Wed	23-Mar	7am - 3pm	Joseph Williams
Wed	23-Mar	3pm-11pm	Ken Hart
Wed-Thur	3/23-3/24	11pm - 7am	Bill Roggenbrodt
Thur	24-Mar	7am - 3pm	John Thorp
Thur	24-Mar	3pm-11pm	Ken Hart
Thur-Fri	3/24-3/25	11pm - 7am	Bill Roggenbrodt
Fri	25-Mar	7am - 3pm	Donna Williams
Fri	25-Mar	3pm-11pm	David Solorio
Fri-Sat	3/25-3/26	11pm-7am	
Sat	26-Mar	7am - 3pm	John Thorp
Sat	26-Mar	3pm-11pm	Stan Gardocki
Sat-Sun	3/26-3/27	11pm - 7am	Denise McGovern
RST Support (Seismology Q&A)			
Fri-Sat	3/18-3/19	11pm-7am	Off (On Call)
Sat	19-Mar	7am - 3pm	Off (On Call)
Sat	19-Mar	3pm-11pm	Off (On Call)
Sat-Sun	3/19-3/20	11pm - 7am	Alice Stieve (On Call) Working as PMT GIS
Sun	20-Mar	7am - 3pm	Cliff Munson (On Call)
Sun	20-Mar	3pm-11pm	Annie Kammerer (On Call)
Sun-Mon	3/20-3/21	11pm - 7am	Stephanie Devlin (On Call)
Mon	21-Mar	7am - 3pm	Cliff Munson (On Call)
Mon	21-Mar	3pm-11pm	A. Kammerer 3-11; M. Bensi 3-6 (On Call)
Mon-Tues	3/21-3/22	11pm - 7am	Dogan Seber (On Call)
Tues	22-Mar	7am - 3pm	Nilesh Chokchi On Call)

Tues	22-Mar	3pm-11pm	S. Devlin 3-11; M. Bensi 3-6 (On Call)
Tues-Wed	3/22-3/23	11pm - 7am	Cliff Munson (On Call)
Wed	23-Mar	7am - 3pm	Nilesh Chokchi On Call)
Wed	23-Mar	3pm-11pm	A. Kammerer 3-11, M. Bensi 3-6 (On Call)
Wed-Thur	3/23-3/24	11pm - 7am	Annie Kammerer (On Call)
Thur	24-Mar	7am - 3pm	Cliff Munson (On Call)
Thur	24-Mar	3pm-11pm	A. Kammerer 3-11, M. Bensi 3-6 (On Call)
Thur-Fri	3/24-3/25	11pm - 7am	Dogan Seber (On Call)
Fri	25-Mar	7am - 3pm	Dogan Seber (On Call)
Fri	25-Mar	3pm-11pm	A.Kammerer 3-11, M. Bensi 3-6 (On Call)
Fri-Sat	3/25-3/26	11pm-7am	Dogan Seber (On Call)
Sat	26-Mar	7am - 3pm	A. Kammerer (On Call)
Sat	26-Mar	3pm-11pm	A. Kammerer (On Call)
Sat-Sun	3/26-3/27	11pm - 7am	A. Kammerer (On Call)
RST Support (Structural)			
Fri-Sat	3/18-3/19	11pm-7am	Off (On Call)
Sat	19-Mar	7am - 3pm	Off (On Call)
Sat	19-Mar	3pm-11pm	Off (On Call)
Sat-Sun	3/19-3/20	11pm - 7am	Off (On Call)
Sun	20-Mar	7am - 3pm	Off (On Call)
Sun	20-Mar	3pm-11pm	Off (On Call)
Sun-Mon	3/20-3/21	11pm - 7am	Off (On Call)
Mon	21-Mar	7am - 3pm	Off (On Call)
Mon	21-Mar	3pm-11pm	Bret Tegeler (On Call)
Mon-Tues	3/21-3/22	11pm - 7am	Bret Tegeler (On Call)
Tues	22-Mar	7am - 3pm	Pravin Patel (On Call)
Tues	22-Mar	3pm-11pm	Bret Tegeler (On Call)
Tues-Wed	3/22-3/23	11pm - 7am	Bret Tegeler (On Call)
Wed	23-Mar	7am - 3pm	Pravin Patel (On Call)
Wed	23-Mar	3pm-11pm	Samir Chakrabart (On Call)
Wed-Thur	3/23-3/24	11pm - 7am	Samir Chakrabart (On Call)
Thur	24-Mar	7am - 3pm	Pravin Patel (On Call)
Thur	24-Mar	3pm-11pm	Jerry Chung (On Call)
Thur-Fri	3/24-3/25	11pm - 7am	Jerry Chung(On Call)
Fri	25-Mar	7am - 3pm	Pravin Patel (On Call)
Fri	25-Mar	3pm-11pm	Manas Chakravorty (On Call)
Fri-Sat	3/25-3/26	11pm-7am	Manas Chakravorty (On Call)
Sat	26-Mar	7am - 3pm	Off (On Call)
Sat	26-Mar	3pm-11pm	Off (On Call)
Sat-Sun	3/26-3/27	11pm - 7am	Off (On Call)

Position	Date	Time	Staff
Executive Team			
ET Director			
Sat-Sun	3/19-3/20	11pm - 7am	Mike Johnson
Sun	20-Mar	7am - 3pm	Jim Wiggins
Sun	20-Mar	3pm-11pm	Brian Sheron
Sun-Mon	3/20-3/21	11pm - 7am	Mike Johnson
Mon	21-Mar	7am - 3pm	Mike Weber
Mon	21-Mar	3pm-11pm	Jim Wiggins
Mon-Tues	3/21-3/22	11pm - 7am	Mike Johnson
Tues	22-Mar	7am - 3pm	Mike Weber
Tues	22-Mar	3pm-11pm	Jim Wiggins
Tues-Wed	3/22-3/23	11pm - 7am	Bruce Boger
Wed	23-Mar	7am - 3pm	Mike Weber
Wed	23-Mar	3pm-11pm	Roy Zimmerman
Wed-Thur	3/23-3/24	11pm - 7am	Bruce Boger
Thur	24-Mar	7am - 3pm	Mike Weber
Thur	24-Mar	3pm-11pm	Roy Zimmerman
Thur-Fri	3/24-3/25	11pm - 7am	Jennifer Uhle
Fri	25-Mar	7am - 3pm	Jim Dyer
Fri	25-Mar	3pm-11pm	Roy Zimmerman
Fri-Sat	3/25-3/26	11pm-7am	Jennifer Uhle
Sat	26-Mar	7am - 3pm	Jim Dyer
Sat	26-Mar	3pm-11pm	Brian Sheron
Sat-Sun	3/26-3/27	11pm - 7am	Jennifer Uhle
ET Response Advisor			
Sat-Sun	3/19-3/20	11pm - 7am	Scott Morris
Sun	20-Mar	7am - 3pm	Chris Miller
Sun	20-Mar	3pm-11pm	Mary Jane (MJ) Ross-Lee
Sun-Mon	3/20-3/21	11pm - 7am	Scott Morris
Mon	21-Mar	7am - 3pm	Brian McDermott
Mon	21-Mar	3pm-11pm	Chris Miller
Mon-Tues	3/21-3/22	11pm - 7am	Scott Morris
Tues	22-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Tues	22-Mar	3pm-11pm	Chris Miller
Tues-Wed	3/22-3/23	11pm - 7am	Tim McGinty
Wed	23-Mar	7am - 3pm	Brian McDermott
Wed	23-Mar	3pm-11pm	Joe Giitter
Wed-Thur	3/23-3/24	11pm - 7am	Tim McGinty
Thur	24-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Thur	24-Mar	3pm-11pm	Joe Giitter
Thur-Fri	3/24-3/25	11pm - 7am	Tim McGinty
Fri	25-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Fri	25-Mar	3pm-11pm	Joe Giitter
Fri-Sat	3/25-3/26	11pm-7am	Tim McGinty
Sat	26-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee

Sat	26-Mar	3pm-11pm	Joe Glitter
Sat-Sun	3/26-3/27	11pm - 7am	Chris Miller
ET Rx Prot Measures & State Coordinator			
Sat-Sun	3/19-3/20	11pm - 7am	Rob Lewis
Sun	20-Mar	7am - 3pm	Vonna Ordaz
Sun	20-Mar	3pm-11pm	Larry Camper
Sun-Mon	3/20-3/21	11pm - 7am	Cynthia Carpenter
Mon	21-Mar	7am - 3pm	Charlie Miller
Mon	21-Mar	3pm-11pm	Larry Camper
Mon-Tues	3/21-3/22	11pm - 7am	Rob Lewis
Tues	22-Mar	7am - 3pm	Charlie Miller
Tues	22-Mar	3pm-11pm	Patricia Holahan
Tues-Wed	3/22-3/23	11pm - 7am	Cynthia Carpenter
Wed	23-Mar	7am - 3pm	Charlie Miller
Wed	23-Mar	3pm-11pm	Patricia Holahan
Wed-Thur	3/23-3/24	11pm - 7am	N/A
Thur	24-Mar	7am - 3pm	Larry Camper
Thur	24-Mar	3pm-11pm	Cynthia Carpenter
Thur-Fri	3/24-3/25	11pm - 7am	N/A
Fri	25-Mar	7am - 3pm	Cynthia Carpenter
Fri	25-Mar	3pm-11pm	Patricia Holahan
Fri-Sat	3/25-3/26	11pm-7am	N/A
Sat	26-Mar	7am - 3pm	Cynthia Carpenter
Sat	26-Mar	3pm-11pm	Scott Moore
Sat-Sun	3/26-3/27	11pm - 7am	N/A
Executive Briefing Team			
EBT Admin. Assistant			
Sat-Sun	3/19-3/20	11pm - 9am	Sapna Hurd
Sun	20-Mar	9am - 7pm	Annette Stang
Sun-Mon	3/20-3/21	7pm-7am	Carolyn Kahler
Mon	21-Mar	7am - 3pm	A. Stang (7-11) / Sapna Hurd (11-3)
Mon	21-Mar	3pm-11pm	Tia Pope
Mon-Tues	3/21-3/22	11pm - 7am	Christina Merritt
Tues	22-Mar	7am - 3pm	Carolyn Kahler/Sapna Hurd
Tues	22-Mar	3pm-11pm	Jon Fiske
Tues-Wed	3/22-3/23	11pm - 7am	Tia Pope
Wed	23-Mar	7am - 3pm	Jon Fiske
Wed	23-Mar	3pm-11pm	Annette Stang
Wed-Thur	3/23-3/24	11pm - 7am	Christina Merritt
Thur	24-Mar	7am - 3pm	Carolyn Kahler/Sapna Hurd
Thur	24-Mar	3pm-11pm	Jonathan Fiske
Thur-Fri	3/24-3/25	11pm - 7am	Tia Pope
Fri	25-Mar	7am - 3pm	Jon Fiske
Fri	25-Mar	3pm-11pm	Sapna Hurd
Fri-Sat	3/25-3/26	11pm-7am	Carolyn Kahler

Sat	26-Mar	7am - 3pm	Kelly Riner
Sat	26-Mar	3pm-11pm	Louise Lovell
Sat-Sun	3/26-3/27	11pm - 7am	Jonathan Fiske

EBT Coordinator

Sat-Sun	3/19-3/20	11pm - 7am	Jim Andersen
Sun	20-Mar	7am - 3pm	Yen-Ju Chen
Sun	20-Mar	3pm-11pm	Caroline Nguyen
Sun-Mon	3/20-3/21	11pm - 7am	Jim Andersen
Mon	21-Mar	7am - 3pm	Yen-Ju Chen
Mon	21-Mar	3pm-11pm	Sara Mroz
Mon-Tues	3/21-3/22	11pm - 7am	Jim Andersen
Tues	22-Mar	7am - 3pm	Caroline Nguyen
Tues	22-Mar	3pm-11pm	Sara Mroz
Tues-Wed	3/22-3/23	11pm - 7am	Jim Andersen
Wed	23-Mar	7am - 3pm	Yen-Ju Chen
Wed	23-Mar	3pm-11pm	Sara Mroz
Wed-Thur	3/23-3/24	11pm - 7am	Jim Andersen
Thur	24-Mar	7am - 3pm	Yen-Ju Chen
Thur	24-Mar	3pm-11pm	Sara Mroz
Thur-Fri	3/24-3/25	11pm - 7am	Jim Andersen
Fri	25-Mar	7am - 3pm	Caroline Nguyen
Fri	25-Mar	3pm-11pm	Sara Mroz
Fri-Sat	3/25-3/26	11pm-7am	Jim Andersen
Sat	26-Mar	7am - 3pm	Yen-Ju Chen/Tonya Russell
Sat	26-Mar	3pm-11pm	Sara Mroz
Sat-Sun	3/26-3/27	11pm - 7am	Jim Anderson

Executive Support Team

EST Status Officer

Sat-Sun	3/19-3/20	11pm - 7am	Doug Huyck
Sun	20-Mar	7am - 3pm	Craig Erlanger
Sun	20-Mar	3pm-11pm	John Jolicoeur
Sun-Mon	3/20-3/21	11pm - 7am	Doug Huyck
Mon	21-Mar	7am - 3pm	Jane Marshall
Mon	21-Mar	3pm-11pm	Bill Gott
Mon-Tues	3/21-3/22	11pm - 7am	Jeff Grant
Tues	22-Mar	7am - 3pm	John Jolicoeur
Tues	22-Mar	3pm-11pm	Bill Gott
Tues-Wed	3/22-3/23	11pm - 7am	Jeff Grant
Wed	23-Mar	7am - 3pm	Sally Billings/Jane Marshall
Wed	23-Mar	3pm-11pm	Bill Gott
Wed-Thur	3/23-3/24	11pm - 7am	Jeff Grant
Thur	24-Mar	7am - 3pm	Jane Marshall
Thur	24-Mar	3pm-11pm	Bill Gott
Thur-Fri	3/24-3/25	11pm - 7am	Jeff Grant
Fri	25-Mar	7am - 3pm	Jane Marshall

Fri	25-Mar	3pm-11pm	Bill Gott
Fri-Sat	3/25-3/26	11pm-7am	Jeff Grant
Sat	26-Mar	7am - 3pm	Jane Marshall ?
Sat	26-Mar	3pm-11pm	Bill Gott
Sat-Sun	3/26-3/27	11pm - 7am	Jeff Grant
EST Actions Officer			
Sat-Sun	3/19-3/20	11pm - 7am	Jonathan Fiske
Sun	20-Mar	7am - 3pm	Melissa Ralph
Sun	20-Mar	3pm-11pm	Jonathan Fiske
Sun-Mon	3/20-3/21	11pm - 7am	Dori Votolato-Willis
Mon	21-Mar	7am - 3pm	Melissa Ralph
Mon	21-Mar	3pm-11pm	Amanda Nerret
Mon-Tues	3/21-3/22	11pm - 7am	Kelly Grimes
Tues	22-Mar	7am - 3pm	Melissa Ralph
Tues	22-Mar	3pm-11pm	Dori Votolato-Willis
Tues-Wed	3/22-3/23	11pm - 7am	Kelly Grimes
Wed	23-Mar	7am - 3pm	Melissa Ralph
Wed	23-Mar	3pm-11pm	Dori Votolato-Willis
Wed-Thur	3/23-3/24	11pm - 7am	Kelly Grimes
Thur	24-Mar	7am - 3pm	Wendy Reed
Thur	24-Mar	3pm-11pm	Dori Votolato-Willis
Thur-Fri	3/24-3/25	11pm - 7am	N/A
Fri	25-Mar	7am - 3pm	Amanda Nerret
Fri	25-Mar	3pm-11pm	Melissa Ralph
Fri-Sat	3/25-3/26	11pm-7am	N/A
Sat	26-Mar	7am - 3pm	James Corson
Sat	26-Mar	3pm-11pm	Don Algama
Sat-Sun	3/26-3/27	11pm - 7am	N/A
EST Coordinator			
Sat-Sun	3/19-3/20	11pm - 7am	Rebecca Stone
Sun	20-Mar	7am - 3pm	Clyde Ragland
Sun	20-Mar	3pm-11pm	Tony Bowers
Sun-Mon	3/20-3/21	11pm - 7am	Rebecca Stone
Mon	21-Mar	7am - 3pm	Tony McMurtray
Mon	21-Mar	3pm-11pm	Tony Bowers
Mon-Tues	3/21-3/22	11pm - 7am	Rebecca Stone
Tues	22-Mar	7am - 3pm	Tony McMurtray
Tues	22-Mar	3pm-11pm	Clyde Ragland
Tues-Wed	3/22-3/23	11pm - 7am	Rebecca Stone
Wed	23-Mar	7am - 3pm	Tony McMurtray
Wed	23-Mar	3pm-11pm	Clyde Ragland
Wed-Thur	3/23-3/24	11pm - 7am	Rebecca Stone
Thur	24-Mar	7am - 3pm	Tony McMurtray
Thur	24-Mar	3pm-11pm	Clyde Ragland
Thur-Fri	3/24-3/25	11pm - 7am	Steve Campbell

Fri	25-Mar	7am - 3pm	Taylor Lichatz
Fri	25-Mar	3pm-11pm	Tony McMurtray
Fri-Sat	3/25-3/26	11pm-7am	Steve Campbell
Sat	26-Mar	7am - 3pm	Tonya Russell
Sat	26-Mar	3pm-11pm	Tony McMurtray
Sat-Sun	3/26-3/27	11pm - 7am	Steve Campbell
EST Chronology Officer			
Sat-Sun	3/19-3/20	11pm - 7am	Cynthia Dorsey
Sun	20-Mar	7am - 3pm	James Vaughn
Sun	20-Mar	3pm-11pm	Rebecca Karas
Sun-Mon	3/20-3/21	11pm - 7am	Mark Resner
Mon	21-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Mon	21-Mar	3pm-11pm	Rebecca Karas
Mon-Tues	3/21-3/22	11pm - 7am	Thomas Scarbrough
Tues	22-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Tues	22-Mar	3pm-11pm	Rebecca Karas
Tues-Wed	3/22-3/23	11pm - 7am	Thomas Scarbrough
Wed	23-Mar	7am - 3pm	James Vaughn
Wed	23-Mar	3pm-11pm	Rebecca Karas
Wed-Thur	3/23-3/24	11pm - 7am	Nick Ballam
Thur	24-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Thur	24-Mar	3pm-11pm	Rebecca Karas
Thur-Fri	3/24-3/25	11pm - 7am	Thomas Scarbrough
Fri	25-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Fri	25-Mar	3pm-11pm	Rebecca Karas
Fri-Sat	3/25-3/26	11pm-7am	Thomas Scarbrough
Sat	26-Mar	7am - 3pm	Nick Ballam
Sat	26-Mar	3pm-11pm	Rebecca Karas
Sat-Sun	3/26-3/27	11pm - 7am	Thomas Scarbrough
EST Response Ops Mgr			
Sat-Sun	3/19-3/20	11pm - 7am	Jean Trefethan
Sun	20-Mar	7am - 3pm	Karen Jackson
Sun	20-Mar	3pm-11pm	Roberto Figueroa
Sun-Mon	3/20-3/21	11pm - 7am	Jean Trefethan
Mon	21-Mar	7am - 3pm	Bob Stransky
Mon	21-Mar	3pm-11pm	Omar Khan
Mon-Tues	3/21-3/22	11pm - 7am	Cris Brown
Tues	22-Mar	7am - 3pm	Bob Stransky
Tues	22-Mar	3pm-11pm	Karen Jackson
Tues-Wed	3/22-3/23	11pm - 7am	Roberto Figueroa
Wed	23-Mar	7am - 3pm	Bob Stransky
Wed	23-Mar	3pm-11pm	Jean Trefethan
Wed-Thur	3/23-3/24	11pm - 7am	Cris Brown
Thur	24-Mar	7am - 3pm	Karen Jackson
Thur	24-Mar	3pm-11pm	Omar Khan

Thur-Fri	3/24-3/25	11pm - 7am	Roberto Figueroa
Fri	25-Mar	7am - 3pm	Jean Trefethan
Fri	25-Mar	3pm-11pm	Cris Brown
Fri-Sat	3/25-3/26	11pm-7am	Roberto Figueroa
Sat	26-Mar	7am - 3pm	Omar Khan
Sat	26-Mar	3pm-11pm	Cris Brown
Sat-Sun	3/26-3/27	11pm - 7am	Roberto Figueroa

EST Admin. Assistant

Sat-Sun	3/19-3/20	11pm - 7am	Chris Lamb
Sun	20-Mar	7am - 3pm	Karen Meyer
Sun	20-Mar	3pm-11pm	Linda Williamson
Sun-Mon	3/20-3/21	11pm - 7am	Chris Lamb
Mon	21-Mar	7am - 3pm	Karen Meyer
Mon	21-Mar	3pm-11pm	Mary Glenn Crutchley
Mon-Tues	3/21-3/22	11pm - 7am	Andrea Wimbush
Tues	22-Mar	7am - 3pm	Cynthia Dorsey
Tues	22-Mar	3pm-11pm	Mary Glenn Crutchley
Tues-Wed	3/22-3/23	11pm - 7am	Michelle Manahan
Wed	23-Mar	7am - 3pm	Karen Meyer
Wed	23-Mar	3pm-11pm	Mary Glenn Crutchley
Wed-Thur	3/23-3/24	11pm - 7am	Andrea Wimbush
Thur	24-Mar	7am - 3pm	Cynthia Dorsey
Thur	24-Mar	3pm-11pm	Mary Glenn Crutchley
Thur-Fri	3/24-3/25	11pm - 7am	N/A
Fri	25-Mar	7am - 3pm	Karen Meyer
Fri	25-Mar	3pm-11pm	Cynthia Dorsey
Fri-Sat	3/25-3/26	11pm-7am	N/A
Sat	26-Mar	7am - 3pm	Karen Meyer
Sat	26-Mar	3pm-11pm	Cynthia Dorsey
Sat-Sun	3/26-3/27	11pm - 7am	N/A

Liaison Team

LT Director

Sat-Sun	3/19-3/20	11pm - 7am	John Adams
Sun	20-Mar	7am - 3pm	Tom Bergman
Sun	20-Mar	3pm-11pm	Bob Webber
Sun-Mon	3/20-3/21	11pm - 7am	John Adams
Mon	21-Mar	7am - 3pm	Tom Bergman
Mon	21-Mar	3pm-11pm	Bob Webber
Mon-Tues	3/21-3/22	11pm - 7am	John Adams
Tues	22-Mar	7am - 3pm	Tom Bergman
Tues	22-Mar	3pm-11pm	Bob Webber
Tues-Wed	3/22-3/23	11pm - 7am	John Adams
Wed	23-Mar	7am - 3pm	Michael Tschiltz
Wed	23-Mar	3pm-11pm	Rich Correia
Wed-Thur	3/23-3/24	11pm - 7am	Jake Zimmerman

Thur	24-Mar	7am - 3pm	Michael Tschiltz
Thur	24-Mar	3pm-11pm	Rich Correia
Thur-Fri	3/24-3/25	11pm - 7am	Jake Zimmerman
Fri	25-Mar	7am - 3pm	Michael Tschiltz
Fri	25-Mar	3pm-11pm	Rich Correia
Fri-Sat	3/25-3/26	11pm-7am	Jake Zimmerman
Sat	26-Mar	7am - 3pm	Michael Tschiltz
Sat	26-Mar	3pm-11pm	Rich Correia
Sat-Sun	3/26-3/27	11pm - 7am	Marissa Bailey

LT Coordinator

Sat-Sun	3/19-3/20	11pm - 7am	Janelle Jessie
Sun	20-Mar	7am - 3pm	Jeff Temple
Sun	20-Mar	3pm-11pm	Nathan Sanfilippo
Sun-Mon	3/20-3/21	11pm - 7am	Milt Murray
Mon	21-Mar	7am - 3pm	Jeff Temple
Mon	21-Mar	3pm-11pm	Nathan Sanfilippo
Mon-Tues	3/21-3/22	11pm - 7am	Milt Murray
Tues	22-Mar	7am - 3pm	Rani Franovich
Tues	22-Mar	3pm-11pm	Nathan Sanfilippo
Tues-Wed	3/22-3/23	11pm - 7am	Milt Murray
Wed	23-Mar	7am - 3pm	Rani Franovich
Wed	23-Mar	3pm-11pm	Jeff Temple
Wed-Thur	3/23-3/24	11pm - 7am	Milt Murray
Thur	24-Mar	7am - 3pm	Rani Franovich
Thur	24-Mar	3pm-11pm	Jeff Temple
Thur-Fri	3/24-3/25	11pm - 7am	Milt Murray
Fri	25-Mar	7am - 3pm	Janelle Jessie
Fri	25-Mar	3pm-11pm	Rani Franovich
Fri-Sat	3/25-3/26	11pm-7am	Milt Murray
Sat	26-Mar	7am - 3pm	Janelle Jessie
Sat	26-Mar	3pm-11pm	Rani Franovich
Sat-Sun	3/26-3/27	11pm - 7am	Milt Murray

LT State Liaison

Sat-Sun	3/19-3/20	9pm-7am	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Sun	20-Mar	7am-2pm	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Sun	20-Mar	2pm-9pm	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Sun-Mon	3/20-3/21	9pm-7am	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Mon	21-Mar	7am-2pm	Flannery (Riveria-On Call)
Mon	21-Mar	2pm-9pm	Easson (Turttil-On Call)
Mon-Tue	3/21-3/22	9pm-7am	Michelle Ryan/Rich Turttil (ON CALL ONLY)
Tue	22-Mar	7am-2pm	Maupin
Tue	22-Mar	2pm-9pm	Easson/Michelle Ryan
Tue-Wed	3/22-3/23	9pm-7am	Alison Rivera/Amanda Noonan (ON CALL ONLY)
Wed	23-Mar	7am-2pm	Maupin
Wed	23-Mar	2pm-9pm	Alison Rivera

Wed-Thur	3/23-3/24	9pm-7am	Michelle Ryan/Turttil (ON CALL ONLY)
Thur	24-Mar	7am-2pm	Flannery
Thur	24-Mar	2pm-9pm	Amanda Noonan
Thur-Fri	3/24-3/25	9pm-7am	Rivera/Turttil (ON CALL ONLY)
Fri	25-Mar	7am-2pm	Kim Lukes
Fri	25-Mar	2pm-9pm	Michelle Ryan
Fri-Sat	3/25-3/26	9pm-7am	Alison Rivera/Amanda Noonan (ON CALL ONLY)
Sat	26-Mar	7am-2pm	Michelle Ryan/Amanda Noonan (ON CALL ONLY)
Sat	26-Mar	2pm-9pm	Michelle Ryan/Amanda Noonan (ON CALL ONLY)
Sat-Sun	3/26-3/27	9pm-7am	Michelle Rivera/Amanda Noonan (ON CALL ONLY)

LT Federal Liaison (2)

Sun	20-Mar	7am - 3pm	Ned Wright
Sun	20-Mar	3pm-11pm	Jeff Temple
Sun-Mon	3/20-3/21	11pm - 7am	Scott Sloan
Sun-Mon	3/20-3/21	11pm - 7am	Lisa Wright
Mon	21-Mar	7am - 3pm	Beth Reed/Ted Smith
Mon	21-Mar	3pm-11pm	Ned Wright
Mon-Tues	3/21-3/22	11pm - 7am	Lisa Wright
Tues	22-Mar	7am - 3pm	Beth Reed/Ted Smith
Tues	22-Mar	3pm-11pm	Ned Wright
Tues-Wed	3/22-3/23	11pm - 7am	Lisa Wright
Wed	23-Mar	7am - 3pm	Jerry Hale/Ted Smith
Wed	23-Mar	3pm-11pm	Ned Wright
Wed-Thur	3/23-3/24	11pm - 7am	Lisa Wright
Thur	24-Mar	7am - 3pm	Ted Smith/Bethany Cecere
Thur	24-Mar	3pm-11pm	Jerry Hale
Thur-Fri	3/24-3/25	11pm - 7am	Scott Sloan
Fri	25-Mar	7am - 3pm	Ted Smith/Bethany Cecere
Fri	25-Mar	3pm-11pm	Jason Lising
Fri-Sat	3/25-3/26	11pm-7am	Scott Sloan
Sat	26-Mar	7am - 3pm	Jason Lising/Lisa Gibney
Sat	26-Mar	3pm-11pm	Jeff Temple
Sat-Sun	3/26-3/27	11pm - 7am	Scott Sloan

LT Congressional Liaison (2)

Sun	20-Mar	7am - 2pm	Rebecca Schmidt
	20-Mar	2pm-9pm	Reanne Shane
Mon	21-Mar	7am - 2pm	Spiros Droggitis
	21-Mar	2pm-9pm	Tim Riley
Tues	22-Mar	7am - 2pm	Tim Riley
	22-Mar	2pm-9pm	Spiros Droggitis
Wed	23-Mar	7am - 2pm	Gene Dacus
	23-Mar	2pm-9pm	Raeann Shane
Thur	24-Mar	7am - 2pm	Spiros Droggitis
	24-Mar	2pm-9pm	Raeann Shane
Fri	25-Mar	7am - 2pm	Gene Dacus

	25-Mar	2pm-9pm	Amy Powell
Sat	26-Mar	7am - 3pm	Amy Powell (ON CALL ONLY)
Sat	26-Mar	3pm-11pm	Amy Powell (ON CALL ONLY)
Sun	3/26-3/27	11pm - 7am	Amy Powell (ON CALL ONLY)

LT International Liaison (2)

Sat-Sun	3/19-3/20	11pm - 7am	Elizabeth Smioldo/Danielle Emche
Sun	20-Mar	7am - 3pm	Karen Henderson/Steve Baker
Sun	20-Mar	3pm-11pm	Eric Stahl/Nancy Fragoyanis
Sun-Mon	3/20-3/21	11pm - 7am	Elizabeth Smioldo/Jenny Tobin
Mon	21-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3)
Mon	21-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Mon-Tues	3/21-3/22	11pm - 7am	Eric Stahl/Mugeh Afshar-Tous
Tues	22-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3)
Tues	22-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Tues-Wed	3/22-3/23	11pm - 7am	Eric Stahl/Mugeh
Wed	23-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3)
Wed	23-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Wed-Thur	3/23-3/24	11pm - 7am	Eric Stahl/Mugeh
Thur	24-Mar	7am - 3pm	Steve Bloom/Lance English
Thur	24-Mar	3pm-11pm	Janice/Jenny Tobin
Thur-Fri	3/24-3/25	11pm - 7am	Andrea/Elizabeth Smioldo
Fri	25-Mar	7am - 3pm	Steve Bloom/Lance English
Fri	25-Mar	3pm-11pm	Janice/Jenny Tobin
Fri-Sat	3/25-3/26	11pm-7am	Andrea/Elizabeth Smioldo
Sat	26-Mar	7am - 3pm	Steve Bloom / Lance English
Sat	26-Mar	3pm-11pm	Janice Owens / Jenny Tobin
Sat-Sun	3/26-3/27	11pm - 7am	Cindy Rosales/ Elizabeth Smioldo

Protective Measures Team

PMTR Director

Sat-Sun	3/19-3/20	11pm - 7am	Kathy Gibson
Sun	20-Mar	7am - 3pm	John Lubinski
Sun	20-Mar	3pm-11pm	Don Cool
Sun-Mon	3/20-3/21	11pm - 7am	Kathy Gibson
Mon	21-Mar	7am - 3pm	John Lubinski
Mon	21-Mar	3pm-11pm	Don Cool
Mon-Tues	3/21-3/22	11pm - 7am	John Tappert
Tues	22-Mar	7am - 3pm	John Lubinski
Tues	22-Mar	3pm-11pm	Don Cool
Tues-Wed	3/22-3/23	11pm - 7am	John Tappert
Wed	23-Mar	7am - 3pm	Terry Reis
Wed	23-Mar	3pm-11pm	Cindy Jones
Wed-Thur	3/23-3/24	11pm - 7am	Randy Sullivan
Thur	24-Mar	7am - 3pm	Terry Reis
Thur	24-Mar	5pm-11pm	Cindy Jones
Thur-Fri	3/24-3/25	11pm - 7am	Randy Sullivan

Fri	25-Mar	7am - 3pm	Terry Reis
Fri	25-Mar	5pm-11pm	Cindy Jones
Fri-Sat	3/25-3/26	11pm-7am	Randy Sullivan
Sat	26-Mar	7am - 3pm	Terry Reis
Sat	26-Mar	3pm-11pm	Cindy Jones
Sat-Sun	3/26-3/27	11pm - 7am	Randy Sullivan
PMTR Coordinator			
Sat-Sun	3/19-3/20	11pm - 7am	Lou Brandon
Sun	20-Mar	7am - 3pm	Nima Ashkeboussi
Sun	20-Mar	3pm-11pm	Jay Patel
Sun-Mon	3/20-3/21	11pm - 7am	Lou Brandon
Mon	21-Mar	7am - 3pm	Prosanta Chowdhury (8 am)
Mon	21-Mar	3pm-11pm	Jay Patel
Mon-Tues	3/21-3/22	11pm - 7am	Lou Brandon
Tues	22-Mar	7am - 3pm	Prosanta Chowdhury (8 am)
Tues	22-Mar	3pm-11pm	Nima Ashkeboussi
Tues-Wed	3/22-3/23	11pm - 7am	Mike Norris
Wed	23-Mar	7am - 3pm	John Wray
Wed	23-Mar	3pm-11pm	Nima Ashkeboussi
Wed-Thur	3/23-3/24	11pm - 7am	Mike Norris
Thur	24-Mar	7am - 3pm	John Wray
Thur	24-Mar	3pm-11pm	Jay Patel/Joe DeCicco
Thur-Fri	3/24-3/25	11pm - 7am	Mike Norris
Fri	25-Mar	7am - 3pm	Duane Hardesty/Joe DeCicco
Fri	25-Mar	3pm-11pm	Ryan Craffey
Fri-Sat	3/25-3/26	11pm-7am	Lou Brandon
Sat	26-Mar	7am - 3pm	Arlon Costa
Sat	26-Mar	3pm-11pm	Kimberly Hardin
Sat-Sun	3/26-3/27	11pm - 7am	Lou Brandon
PMTR Prot Actions Asst Dir			
Sat-Sun	3/19-3/20	11pm - 7am	Greg Casto
Sun	20-Mar	7am - 3pm	Kathryn Brock
Sun	20-Mar	3pm-11pm	Tim Harris
Sun-Mon	3/20-3/21	11pm - 7am	Greg Casto (Jessica Kratchman - to shadow)
Mon	21-Mar	7am - 3pm	Kathryn Brock
Mon	21-Mar	3pm-11pm	Dan Barss
Mon-Tues	3/21-3/22	11pm - 7am	Jessica Kratchman
Tues	22-Mar	7am - 3pm	Kathryn Brock
Tues	22-Mar	3pm-11pm	Tim Harris
Tues-Wed	3/22-3/23	11pm - 7am	Jessica Kratchman
Wed	23-Mar	7am - 3pm	Sandra Wastler
Wed	23-Mar	3pm-11pm	Vince Holahan
Wed-Thur	3/23-3/24	11pm - 7am	Jessica Kratchman
Thur	24-Mar	7am - 3pm	Sandra Wastler
Thur	24-Mar	3pm-11pm	Stacey Rosenberg

Thur-Fri	3/24-3/25	11pm - 7am	Jessica Kratchman
Fri	25-Mar	7am - 3pm	Kathryn Brock
Fri	25-Mar	3pm-11pm	Vince Holahan
Fri-Sat	3/25-3/26	11pm-7am	Greg Casto
Sat	26-Mar	7am - 3pm	Dan Barss
Sat	26-Mar	3pm-11pm	Sandra Wastler
Sat-Sun	3/26-3/27	11pm - 7am	Greg Casto/Jessica Kratchman

PMTR RAAD

Sat-Sun	3/19-3/20	11pm - 7am	Patricia Milligan
Sun	20-Mar	7am - 3pm	Eric Schrader
Sun	20-Mar	3pm-11pm	Steve LaVie
Sun-Mon	3/20-3/21	11pm - 7am	Mike Norris
Mon	21-Mar	7am - 3pm	Michelle Hart
Mon	21-Mar	3pm-11pm	Steve Lavie
Mon-Tues	3/21-3/22	11pm - 7am	Boby Abu-Eid
Tues	22-Mar	7am - 3pm	Bruce Watson
Tues	22-Mar	3pm-11pm	Steve LaVie
Tues-Wed	3/22-3/23	11pm - 7am	Boby Abu-Eid
Wed	23-Mar	7am - 3pm	Bruce Watson
Wed	23-Mar	3pm-11pm	Michelle Hart
Wed-Thur	3/23-3/24	11pm - 7am	Duane Schmidt
Thur	24-Mar	7am - 3pm	Bruce Watson
Thur	24-Mar	3pm-11pm	Steve LaVie
Thur-Fri	3/24-3/25	11pm - 7am	Cynthia Barr
Fri	25-Mar	7am - 3pm	Randy Sullivan
Fri	25-Mar	3pm-11pm	Michelle Hart
Fri-Sat	3/25-3/26	11pm-7am	Cynthia Barr
Sat	26-Mar	7am - 3pm	Kathy Brock
Sat	26-Mar	3pm-11pm	Steve LaVie
Sat-Sun	3/26-3/27	11pm - 7am	Mike Norris

PMTR Dose Assessment (RASCAL) - Need 2

Sat-Sun	3/19-3/20	11pm - 7am	Kimberly Gambone/John Parillo
Sun	20-Mar	7am - 3pm	Casper Sun / Duane Schmidt
Sun	20-Mar	3pm-11pm	Margaret Cervera / Tony Huffert
Sun-Mon	3/20-3/21	11pm - 7am	Kimberly Gambone/John Parillo
Mon	21-Mar	7am - 3pm	Eric Schrader/Rich Clement
Mon	21-Mar	3pm-11pm	Margaret Cervera/Tony Huffert
Mon-Tues	3/21-3/22	11pm - 7am	John Parillo / Bernie White
Tues	22-Mar	7am - 3pm	Eric Schrader/Rich Clement
Tues	22-Mar	3pm-11pm	Gary Purdy/Casper Sun
Tues-Wed	3/22-3/23	11pm - 7am	Margaret Cervera/Tony Huffert
Wed	23-Mar	7am - 3pm	Eric Schrader/Rich Clement
Wed	23-Mar	3pm-11pm	Kimberly Gambone/Casper Sun
Wed-Thur	3/23-3/24	11pm - 7am	Tony Huffert/John Parillo
Thur	24-Mar	7am - 3pm	Eric Schrader/Rich Clement

Thur	24-Mar	3pm-11pm	Kimberly Gambone/Casper Sun
Thur-Fri	3/24-3/25	11pm - 7am	Tony Huffert/John Parillo
Fri	25-Mar	7am - 3pm	Eric Schrader/Rich Clement
Fri	25-Mar	3pm-11pm	Gary Purdy/Casper Sun
Fri-Sat	3/25-3/26	11pm-7am	John Parillo / Bernie White
Sat	26-Mar	7am - 3pm	Tony Huffert/Charlie Hinson
Sat	26-Mar	3pm-11pm	Leroy Hardin/Gary Purdy? (as last resort)
Sat-Sun	3/26-3/27	11pm - 7am	John Parillo/Ron LaVera
PMTR GIS Analyst			
Sun-Mon	3/20-3/21	11pm - 7am	Alice Stieve
Mon	21-Mar	7am - 3pm	Nebiyu Tiruneh
Mon	21-Mar	3pm-11pm	Stephanie Devlin
Mon-Tues	3/21-3/22	11pm - 7am	Alice Stieve
Tues	22-Mar	7am - 3pm	Yong Li
Tues	22-Mar	3pm-11pm	Stephanie Devlin
Tues-Wed	3/22-3/23	11pm - 7am	Alice Stieve
Wed	23-Mar	7am - 3pm	Allen Gross
Wed	23-Mar	3pm-11pm	Stephanie Devlin
Wed-Thur	3/23-3/24	11pm - 7am	Phil Brandt
Thur	24-Mar	7am - 3pm	Yong Li
Thur	24-Mar	3pm-11pm	Stephanie Devlin
Thur-Fri	3/24-3/25	11pm - 7am	Dogan Seber
Fri	25-Mar	7am - 3pm	Allen Gross
Fri	25-Mar	3pm-11pm	Stephanie Devlin
Fri-Sat	3/25-3/26	11pm-7am	Phil Brandt
Sat	26-Mar	7am - 3pm	Nebiyu Tiruneh
Sat	26-Mar	3pm-11pm	Dan Barnhurst
Sat-Sun	3/26-3/27	11pm - 7am	Hosung Ahn
PMTR Meteorologist			
Sat-Sun	19-Mar	3pm-11pm	Mike Mazaika
Sun	3/19-3/20	11pm - 7am	David Brown
Sun	20-Mar	7am - 3pm	Kevin Quinlan
Sun	20-Mar	3pm-11pm	Mike Mazaika
Sun-Mon	3/20-3/21	11pm - 7am	David Brown
Mon	21-Mar	7am - 3pm	Mike Mazaika
Mon	21-Mar	3pm-11pm	Brad Harvey
Mon-Tues	3/21-3/22	11pm - 7am	Kevin Quinlan
Tues	22-Mar	7am - 3pm	David Brown
Tues	22-Mar	3pm-11pm	Brad Harvey
Tues-Wed	3/22-3/23	11pm - 7am	Andy Imboden/Kevin Quinlan
Wed	23-Mar	7am - 3pm	Mike Mazaika
Wed	23-Mar	3pm-11pm	Brad Harvey
Wed-Thur	3/23-3/24	11pm - 7am	Kevin Quinlan
Thur	24-Mar	7am - 3pm	David Brown
Thur	24-Mar	3pm-11pm	Brad Harvey

Thur-Fri	3/24-3/25	11pm - 7am	Kevin Quinlan
Fri	25-Mar	7am - 3pm	Mike Mazaika
Fri	25-Mar	3pm-11pm	Brad Harvey
Fri-Sat	3/25-3/26	11pm-7am	Kevin Quinlan
Sat	26-Mar	7am - 3pm	Andy Imboden
Sat	26-Mar	3pm-11pm	Brad Harvey
Sat-Sun	3/26-3/27	11pm - 7am	Kevin Quinlan
Reactor Safety Team			
RST Director			
Sat-Sun	3/19-3/20	11pm - 7am	Jennifer Uhle
Sun	20-Mar	7am - 3pm	Laura Dudes
Sun	20-Mar	3pm-11pm	Dave Skeen
Sun-Mon	3/20-3/21	11pm - 7am	Jennifer Uhle
Mon	21-Mar	7am - 3pm	Fred Brown
Mon	21-Mar	3pm-11pm	Dave Skeen
Mon-Tues	3/21-3/22	11pm - 7am	Jennifer Uhle
Tues	22-Mar	7am - 3pm	Fred Brown
Tues	22-Mar	3pm-11pm	Dave Skeen
Tues-Wed	3/22-3/23	11pm - 7am	Brian Holian
Wed	23-Mar	7am - 3pm	Fred Brown
Wed	23-Mar	3pm-11pm	Bill Ruland
Wed-Thur	3/23-3/24	11pm - 7am	Brian Holian
Thur	24-Mar	7am - 3pm	Fred Brown
Thur	24-Mar	3pm-11pm	Bill Ruland
Thur-Fri	3/24-3/25	11pm - 7am	Brian Holian
Fri	25-Mar	7am - 3pm	Pat Hiland
Fri	25-Mar	3pm-11pm	Bill Ruland
Fri-Sat	3/25-3/26	11pm-7am	Brian Holian
Sat	26-Mar	7am - 3pm	Pat Hiland
Sat	26-Mar	3pm-11pm	Bill Ruland
Sat	3/26-27/2011	11pm - 7am	Dave Skeen
RST Coordinator			
Sat-Sun	3/19-3/20	11pm - 7am	Frank Collins
Sun	20-Mar	7am - 3pm	Peter Alter
Sun	20-Mar	3pm-11pm	Eric Thomas
Sun-Mon	3/20-3/21	11pm - 7am	Mike Morlang
Mon	21-Mar	7am - 3pm	Peter Alter
Mon	21-Mar	3pm-11pm	Greg Schoenebeck
Mon-Tues	3/21-3/22	11pm - 7am	Frank Collins
Tues	22-Mar	7am - 3pm	Rick Hasselberg
Tues	22-Mar	3pm-11pm	Mike Morlang
Tues-Wed	3/22-3/23	11pm - 7am	Oleg Bukharin
Wed	23-Mar	7am - 3pm	Eric Thomas
Wed	23-Mar	3pm-11pm	Greg Schoenebeck
Wed-Thur	3/23-3/24	11pm - 7am	Frank Collins

Thur	24-Mar	7am - 3pm	Rick Hasselberg
Thur	24-Mar	3pm-11pm	Brett Rini
Thur-Fri	3/24-3/25	11pm - 7am	Tom Boyce (RES)
Fri	25-Mar	7am - 3pm	Eric Thomas
Fri	25-Mar	3pm-11pm	Brett Rini
Fri-Sat	3/25-3/26	11pm-7am	Frank Collins
Sat	26-Mar	7am - 3pm	Eric Thomas
Sat	26-Mar	3pm-11pm	Mark Orr
Sat-Sun	3/26-3/27	11pm - 7am	Brett Rini

Severe Accident/PRA

Sat-Sun	3/19-3/20	11pm - 7am	Mike Salay
Sun	20-Mar	7am - 3pm	John Lane
Sun	20-Mar	3pm-11pm	Jim Gilmer
Sun-Mon	3/20-3/21	11pm - 7am	Don Dube
Mon	21-Mar	7am - 3pm	Jeff Circle
Mon	21-Mar	3pm-11pm	Hossein Esmaili
Mon-Tues	3/21-3/22	11pm - 7am	Jim Gilmer
Tues	22-Mar	7am - 3pm	Ed Fuller
Tues	22-Mar	3pm-11pm	Len Ward
Tues-Wed	3/22-3/23	11pm - 7am	Sam Miranda
Wed	23-Mar	7am - 3pm	Jeff Circle
Wed	23-Mar	3pm-11pm	Steven Arndt
Wed-Thur	3/23-3/24	11pm - 7am	Mike Salay
Thur	24-Mar	7am - 3pm	Jeff Circle
Thur	24-Mar	3pm-11pm	Steve Laur
Thur-Fri	3/24-3/25	11pm - 7am	Don Helton
Fri	25-Mar	7am - 3pm	Steven Arndt
Fri	25-Mar	3pm-11pm	Steve Laur
Fri-Sat	3/25-3/26	11pm-7am	Don Helton
Sat	26-Mar	7am - 3pm	Steven Arndt
Sat	26-Mar	3pm-11pm	
Sat-Sun	3/26-3/27	11pm - 7am	Ray Skarda

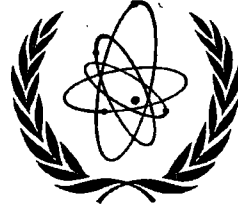
BWR Expertise

Sat-Sun	3/19-3/20	11pm - 7am	John Kauffman
Sun	20-Mar	7am - 3pm	Larry Vick
Sun	20-Mar	3pm-11pm	Chuck Norton
Sun-Mon	3/20-3/21	11pm - 7am	Mike Brown
Mon	21-Mar	7am - 3pm	Bob Summers
Mon	21-Mar	3pm-11pm	Chuck Norton
Mon-Tues	3/21-3/22	11pm - 7am	Mike Brown
Tues	22-Mar	7am - 3pm	Tom Boyce (RES)
Tues	22-Mar	3pm-11pm	Chuck Norton
Tues-Wed	3/22-3/23	11pm - 7am	Mike Brown
Wed	23-Mar	7am - 3pm	Larry Vick
Wed	23-Mar	3pm-11pm	Chuck Norton

Wed-Thur	3/23-3/24	11pm - 7am	Eva Brown
Thur	24-Mar	7am - 3pm	Peter Alter
Thur	24-Mar	3pm-11pm	Chuck Norton
Thur-Fri	3/24-3/25	11pm - 7am	Eva Brown
Fri	25-Mar	7am - 3pm	Bob Summers
Fri	25-Mar	3pm-11pm	Chuck Norton
Fri-Sat	3/25-3/26	11pm-7am	Eva Brown
Sat	26-Mar	7am - 3pm	Mike Brown
Sat	26-Mar	3pm-11pm	Chuck Norton
Sat-Sun	3/26-3/27	11pm - 7am	
RST Comm/ERDS Operator			
Sat-Sun	3/19-3/20	11pm - 7am	Ujagar Bhachu
Sun	20-Mar	7am - 3pm	Denise McGovern
Sun	20-Mar	3pm-11pm	Donna Williams
Sun-Mon	3/20-3/21	11pm - 7am	Ujagar Bhachu
Mon	21-Mar	7am - 3pm	Joseph Williams
Mon	21-Mar	3pm-11pm	John Thorp
Mon-Tues	3/21-3/22	11pm - 7am	Bill Roggenbrodt
Tues	22-Mar	7am - 3pm	Steve Bloom
Tues	22-Mar	3pm-11pm	Jim Isom
Tues-Wed	3/22-3/23	11pm - 7am	Bill Roggenbrodt
Wed	23-Mar	7am - 3pm	Joseph Williams
Wed	23-Mar	3pm-11pm	Ken Hart
Wed-Thur	3/23-3/24	11pm - 7am	Bill Roggenbrodt
Thur	24-Mar	7am - 3pm	John Thorp
Thur	24-Mar	3pm-11pm	Ken Hart
Thur-Fri	3/24-3/25	11pm - 7am	Bill Roggenbrodt
Fri	25-Mar	7am - 3pm	Donna Williams
Fri	25-Mar	3pm-11pm	David Solorio
Fri-Sat	3/25-3/26	11pm-7am	
Sat	26-Mar	7am - 3pm	John Thorp
Sat	26-Mar	3pm-11pm	Stan Gardocki
Sat-Sun	3/26-3/27	11pm - 7am	Denise McGovern
RST Support (Seismology Q&A)			
Fri-Sat	3/18-3/19	11pm-7am	Off (On Call)
Sat	19-Mar	7am - 3pm	Off (On Call)
Sat	19-Mar	3pm-11pm	Off (On Call)
Sat-Sun	3/19-3/20	11pm - 7am	Alice Stieve (On Call) Working as PMT GIS
Sun	20-Mar	7am - 3pm	Cliff Munson (On Call)
Sun	20-Mar	3pm-11pm	Annie Kammerer (On Call)
Sun-Mon	3/20-3/21	11pm - 7am	Stephanie Devlin (On Call)
Mon	21-Mar	7am - 3pm	Cliff Munson (On Call)
Mon	21-Mar	3pm-11pm	A. Kammerer 3-11; M. Bensi 3-6 (On Call)
Mon-Tues	3/21-3/22	11pm - 7am	Dogan Seber (On Call)
Tues	22-Mar	7am - 3pm	Nilesh Chokchi On Call)

Tues	22-Mar	3pm-11pm	S. Devlin 3-11; M. Bensi 3-6 (On Call)
Tues-Wed	3/22-3/23	11pm - 7am	Cliff Munson (On Call)
Wed	23-Mar	7am - 3pm	Nilesh Chokchi On Call)
Wed	23-Mar	3pm-11pm	A. Kammerer 3-11, M. Bensi 3-6 (On Call)
Wed-Thur	3/23-3/24	11pm - 7am	Annie Kammerer (On Call)
Thur	24-Mar	7am - 3pm	Cliff Munson (On Call)
Thur	24-Mar	3pm-11pm	A. Kammerer 3-11, M. Bensi 3-6 (On Call)
Thur-Fri	3/24-3/25	11pm - 7am	Dogan Seber (On Call)
Fri	25-Mar	7am - 3pm	Dogan Seber (On Call)
Fri	25-Mar	3pm-11pm	A.Kammerer 3-11, M. Bensi 3-6 (On Call)
Fri-Sat	3/25-3/26	11pm-7am	Dogan Seber (On Call)
Sat	26-Mar	7am - 3pm	A. Kammerer (On Call)
Sat	26-Mar	3pm-11pm	A. Kammerer (On Call)
Sat-Sun	3/26-3/27	11pm - 7am	A. Kammerer (On Call)
RST Support (Structural)			
Fri-Sat	3/18-3/19	11pm-7am	Off (On Call)
Sat	19-Mar	7am - 3pm	Off (On Call)
Sat	19-Mar	3pm-11pm	Off (On Call)
Sat-Sun	3/19-3/20	11pm - 7am	Off (On Call)
Sun	20-Mar	7am - 3pm	Off (On Call)
Sun	20-Mar	3pm-11pm	Off (On Call)
Sun-Mon	3/20-3/21	11pm - 7am	Off (On Call)
Mon	21-Mar	7am - 3pm	Off (On Call)
Mon	21-Mar	3pm-11pm	Bret Tegeler (On Call)
Mon-Tues	3/21-3/22	11pm - 7am	Bret Tegeler (On Call)
Tues	22-Mar	7am - 3pm	Pravin Patel (On Call)
Tues	22-Mar	3pm-11pm	Bret Tegeler (On Call)
Tues-Wed	3/22-3/23	11pm - 7am	Bret Tegeler (On Call)
Wed	23-Mar	7am - 3pm	Pravin Patel (On Call)
Wed	23-Mar	3pm-11pm	Samir Chakrabart (On Call)
Wed-Thur	3/23-3/24	11pm - 7am	Samir Chakrabart (On Call)
Thur	24-Mar	7am - 3pm	Pravin Patel (On Call)
Thur	24-Mar	3pm-11pm	Jerry Chung (On Call)
Thur-Fri	3/24-3/25	11pm - 7am	Jerry Chung(On Call)
Fri	25-Mar	7am - 3pm	Pravin Patel (On Call)
Fri	25-Mar	3pm-11pm	Manas Chakravorty (On Call)
Fri-Sat	3/25-3/26	11pm-7am	Manas Chakravorty (On Call)
Sat	26-Mar	7am - 3pm	Off (On Call)
Sat	26-Mar	3pm-11pm	Off (On Call)
Sat-Sun	3/26-3/27	11pm - 7am	Off (On Call)

Attachment HQ_JAPAN_11-Mar-2011at09.42.16.WAV(3374520 bytes)
cannot be converted to PDF format.



IAEA

International Atomic Energy Agency

Atoms for Peace

Japanese Earthquake Update (18 March 12:45 UTC)

Japanese authorities have informed the IAEA that new INES ratings have been issued for some of the events relating to the nuclear emergency at the Fukushima Daiichi and Daini nuclear power plants.

Japanese authorities have assessed that the core damage at the Fukushima Daiichi 2 and 3 reactor units caused by the loss of all cooling function has been rated as 5 on the INES scale.

Japanese authorities have assessed that the loss of cooling and water supplying functions in the spent fuel pool of the unit 4 reactor has been rated as 3.

Japanese authorities have assessed that the loss of cooling functions in the reactor units 1, 2 and 4 of the Fukushima Daini nuclear power plant has also been rated as 3. All reactor units at Fukushima Daini nuclear power plant are now in a cold shut down condition.

Addition of 12:45 UTC

Japanese authorities have assessed that the core damage at the Fukushima Daiichi 1 reactor unit caused by the loss of all cooling function has been rated as 5 on the INES scale.

This is an upgrade from a previous rating of 12 March as 4 on the INES scale, which was based on an abnormal rise of radioactive dose rate at the site boundary.

Further information on the ratings and the INES scale.

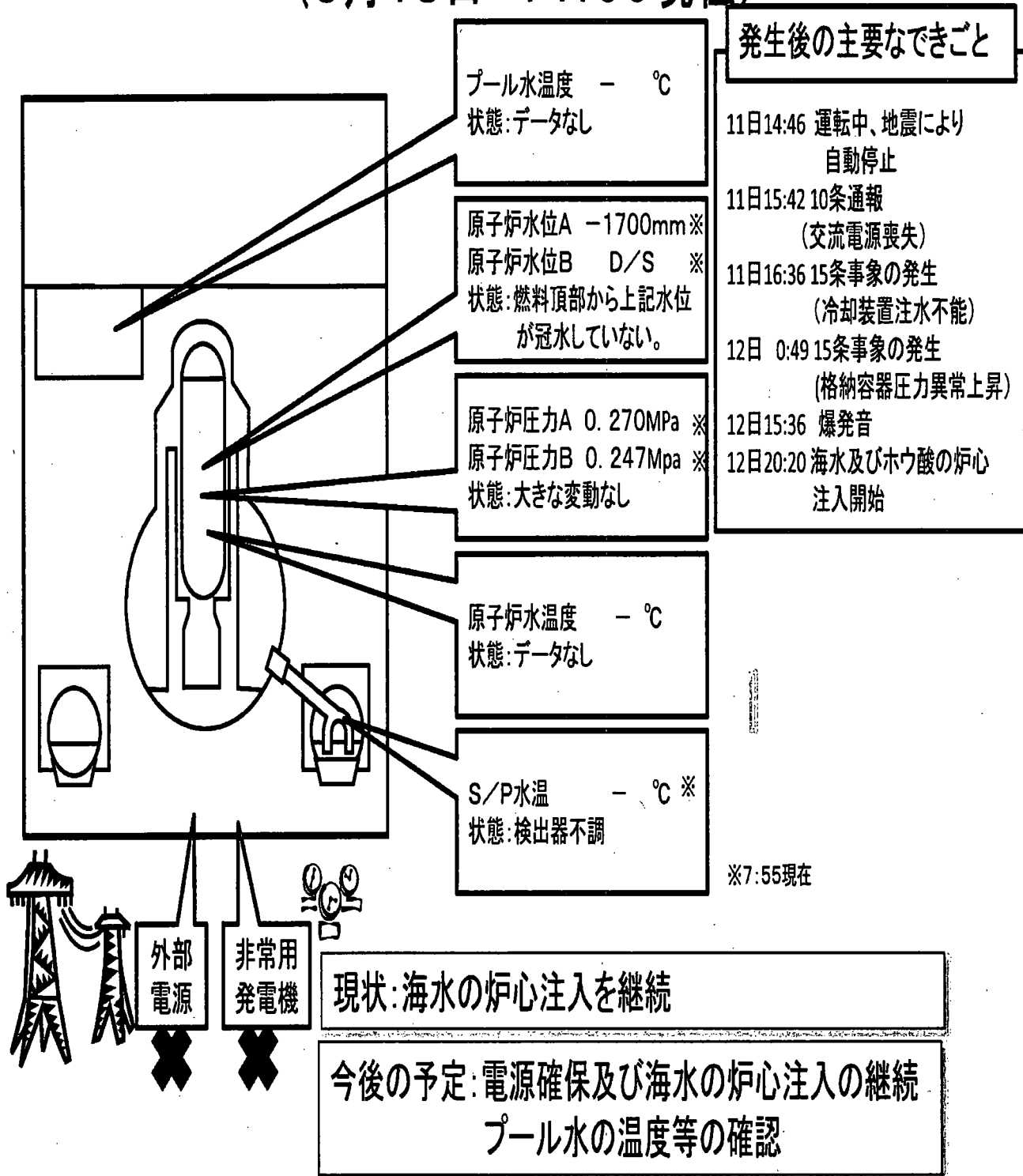
福島第一原子力発電所 プラント関連パラメータ

3月18日 14:00現在

号機	1u	2u	3u	4u	5u	6u
注水状況	消火系ラインを用いた海水注入中。 流量計無 圧力 0.55MPa(630)	消火系ラインを用いた海水注入中。 流量 560L/min(仮設計器) 圧力 0.65MPa(630)	消火系ラインを用いた海水注入中。 流量 250L/min(仮設計器) 圧力 0.50MPa(3/17 21:40)	停止中	停止中	停止中
原子炉水位	燃料域A: -1700mm. 燃料域B: ダウンスケール (7:55 現在)	燃料域A: -1400mm (7:55 現在)	燃料域A: -2000mm 燃料域B: -2300mm. (12:35 現在)	-	停止域 1969mm. (13:00 現在)	停止域 2712mm (13:00 現在)
原子炉圧力	0.169MPag (A) 0.146MPag (B) (7:55 現在)	-0.014MPag (A) -0.029MPag (B) (7:55 現在)	-0.018MPag (C) 0MPag (B) (12:35 現在)	-	1.221MPag (13:00 現在)	0.57MPag (13:00 現在)
原子炉水温度	-	-	-	-	181.8°C (13:00 現在)	161.2°C (13:00 現在)
D/W・S/C 圧力 S/C 水温度	D/W 検出器不働 S/C 検出器不働	D/W 0.130MPaabs S/C ダウンスケール (7:55 現在)	D/W 0.155MPaabs S/C ダウンスケール. (12:35 現在)	-	-	-
GAMS	D/W 3.75×10 ⁹ Sv/h S/C 4.69×10 ⁹ Sv/h (7:55 現在)	D/W 7.80×10 ⁹ Sv/h S/C 2.37×10 ⁹ Sv/h (7:55 現在)	D/W 1.05×10 ⁹ Sv/h S/C 5.90×10 ⁹ Sv/h (12:35 現在)	-	-	-
D/W 設計使用圧力	384kPag	384kPag	384kPag	-	-	-
D/W 最高使用圧力	427kPag	427kPag	427kPag	-	-	-
使用済燃料プール 水温度	-	-	-	84°C (3/14 4:08)	66.3°C (13:00 現在)	64.0°C (13:00 現在)
電源	1Aトリップ 1Bトリップ	2Aトリップ 2Bトリップ	3Aトリップ 3Bトリップ	4A使用不可	5Aトリップ	6B動作中 6A不可 HPCS不可

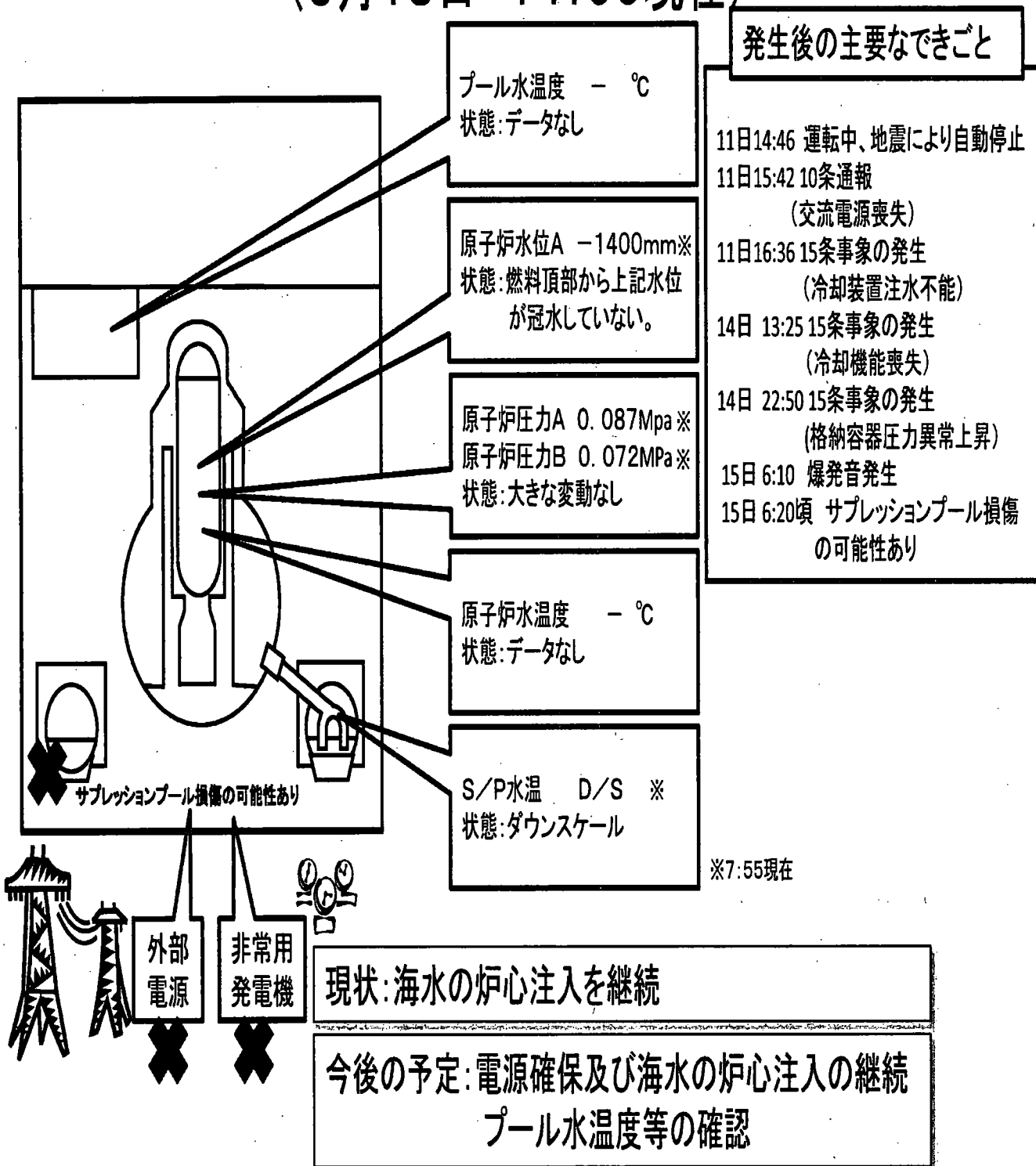
福島第一原子力発電所1号機の状況

(3月18日 14:00現在)



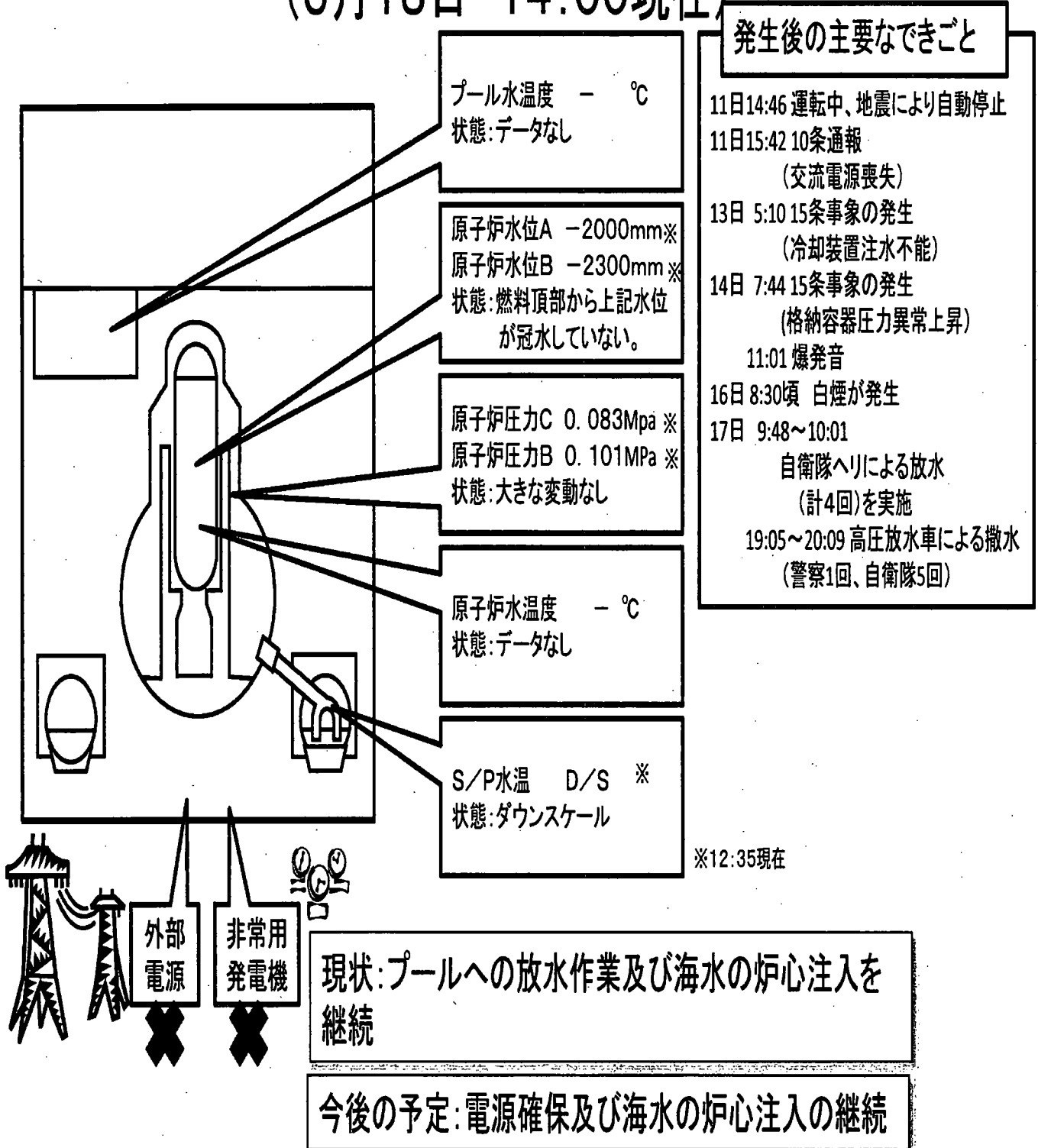
福島第一原子力発電所2号機の状況

(3月18日 14:00現在)



福島第一原子力発電所3号機の状況

(3月18日 14:00現在)



プール水温度 - °C
状態: データなし

原子炉水位A -2000mm※
原子炉水位B -2300mm※
状態: 燃料頂部から上記水位が冠水していない。

原子炉圧力C 0.083Mpa ※
原子炉圧力B 0.101Mpa ※
状態: 大きな変動なし

原子炉水温度 - °C
状態: データなし

S/P水温 D/S ※
状態: ダウンスケール

外部電源
非常用発電機

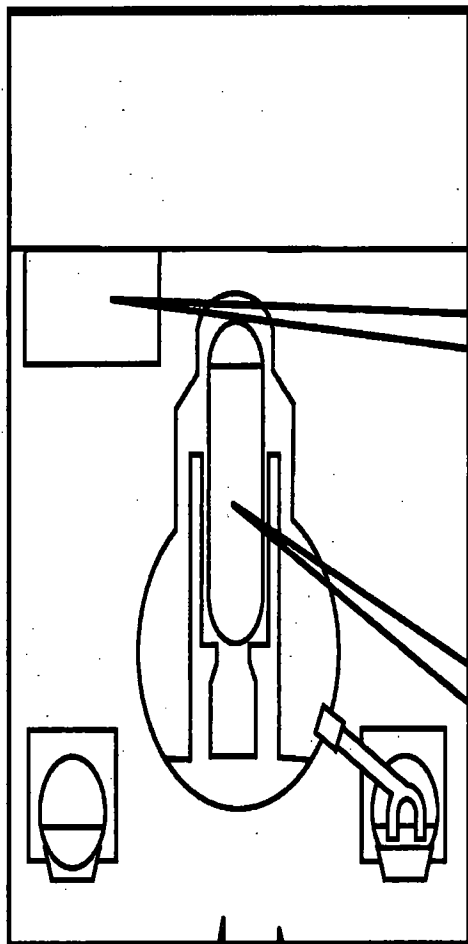
福島第一原子力発電所4号機の状況

(3月18日 14:00現在)

発生後の主要なできごと

地震発生時、定期検査により停止中
14日 4:08 使用済燃料プール温度84℃
15日 6:14 4Fの壁が一部破損の確認
15日 9:38 3階部分で火災(12:25鎮火)
16日 5:45 4号機で火災。事業者によると現場での火は確認できず。(7:26鎮火)

定検停止中



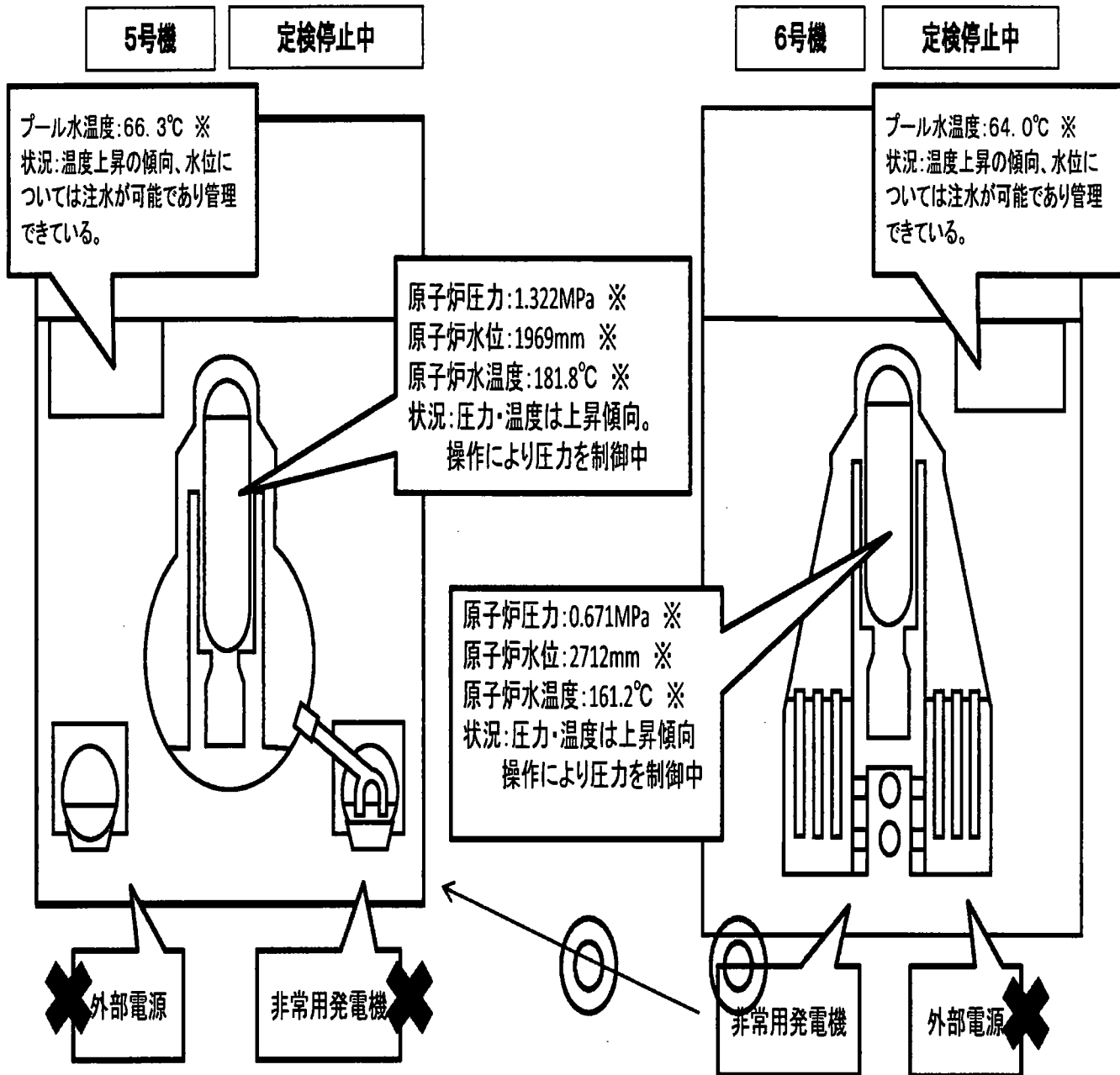
プール水温度は不明

原子炉内に
燃料体なし

現状: 原子炉圧力容器に燃料体が存在しない
プールには水が残っていると評価(東電)

今後の予定: 電源の復旧

福島第一原子力発電所5/6号機の状況 (18日 14:00時点)



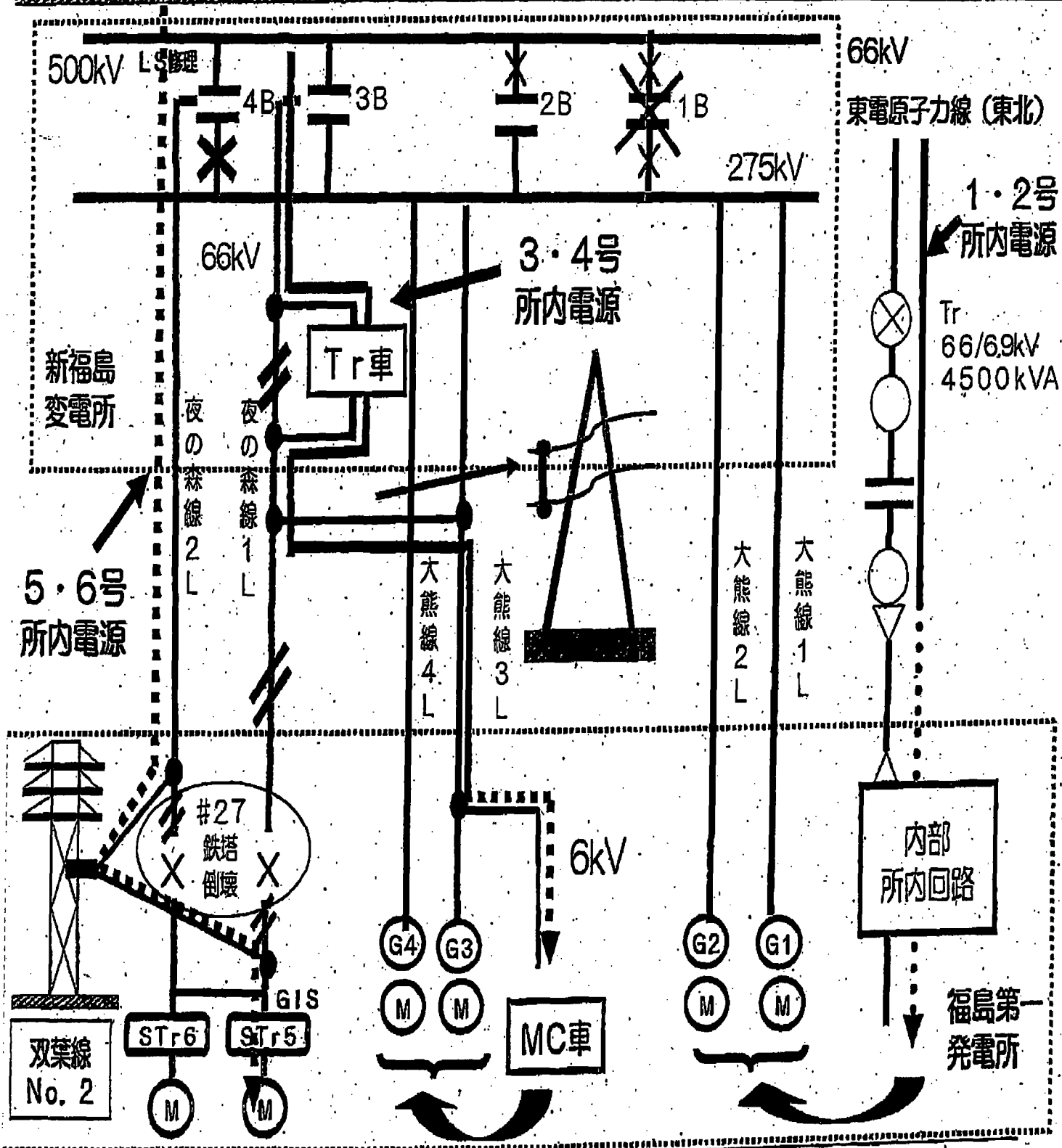
現状:6号機の非常用発電機(1台)は運転中(5, 6号機に電力供給中)

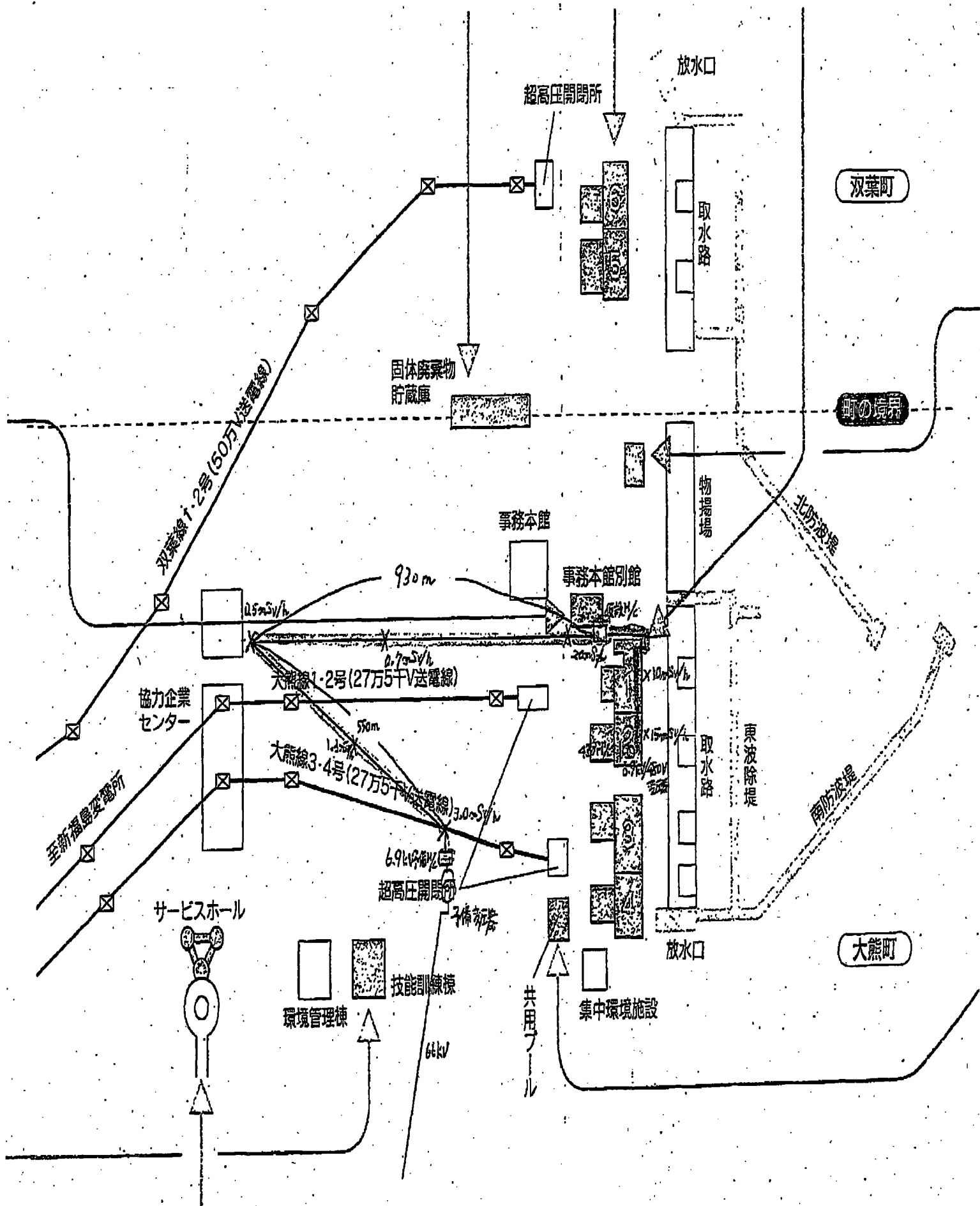
今後の予定:外部電源復旧作業着手

※ 13:00現在

福島第1原子力発電所 所内電源復旧

作業終了
 今後の作業





双葉町

町の境界

大熊町

福島第一(1F) 西門付近(MP-5付近)(2号機より西約1.1キロ) ※MP-6の放射線によるリスクが高いことから西門付近で測定

3月17日																
モニタリングカー	0:30	0:50	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	
測定値($\mu\text{Sv/h}$)	351.4	350.1	348.2	345.9	344.8	344.6	341.7	340.8	339.4	338.3	336.1	334.7	333.8	314.5	313.5	
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
風向	北東	南南西	東	西	北西	北	西	西	北西	西	西	西	西	西	西	
風速(m/s)	1.1	0.4	0.9	0.5	1.5	1.5	1.8	1.8	1.0	1.3	2.3	3.1	3.6	3.7	3.8	

福島第一(1F) 体育館付近(MP-5東側)(2号機より西北西約0.9キロ) ※高圧注水活動の作業者のための放射線管理を行うため移動

3月17日								
モニタリングカー	7:50	8:00	8:30	8:40	8:50	9:00	9:10	
測定値($\mu\text{Sv/h}$)	381.3	379.0	373.0	372.5	372.7	373.7	371.9	
中性子	ND	ND	ND	ND	ND	ND	ND	
風向	西	南西	西南西	南西	南西	南西	南西	
風速(m/s)	3.7	3.7	3.2	3.8	3.4	3.7	3.0	

福島第一(1F) 事務本館北(2号機より北西約0.5キロ) ※注水活動による効果を測定するためにより近傍へ移動

3月17日										
モニタリングカー	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	
測定値($\mu\text{Sv/h}$)	3786.0	3782.0	3763.0	3759.0	3755.0	3754.0	3750.0	3753.0	3743.0	
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	
風向	西	西南西	西	北西	北西	西	西	西南西	南西	
風速(m/s)	5.1	5.0	6.8	5.2	5.6	5.2	7.0	4.6	2.2	

福島第一(1F) 正門付近前(MP-6付近)(2号機より西南西約1.0キロ) ※入構者のための放射線管理を行うため移動

3月17日		
モニタリングカー	11:30	11:10
測定値($\mu\text{Sv/h}$)	647.3	646.2
中性子	ND	ND
風向	北西	北北西
風速(m/s)	4.8	2.3

福島第一(1F) 西門(MP-5付近)(2号機より西約1.1キロ) ※定点で測定するため移動

3月17日								
モニタリングカー	11:15	11:20	11:30	12:00	12:30	13:00	13:10	13:20
測定値($\mu\text{Sv/h}$)	313.1	312.5	312.3	311.0	310.7	309.7	309.3	309.1
中性子	ND	ND	ND	ND	ND	ND	ND	ND
風向	北西	西	西北西	西	西	西	西	西
風速(m/s)	4.7	4.4	2.9	3.6	3.5	3.8	3.5	3.1

福島第一(1F) 事務本館北(2号機より北西約0.5キロ) ※注水活動による効果を測定するためにより近傍へ移動

3月17日			
モニタリングカー	13:30	13:40	14:00
測定値($\mu\text{Sv/h}$)	4175.0	4165.0	3810.0
中性子	ND	ND	ND
風向	北西	西	西
風速(m/s)	4.5	4.7	5.2

福島第一(1F) 西門(MP-5付近)(2号機より西約1.1キロ) ※定点で測定するため移動

3月17日				
モニタリングカー	14:10	14:30	15:00	15:30
測定値($\mu\text{Sv/h}$)	311.1	310.3	309.1	309.7
中性子	ND	ND	ND	ND
風向	北西	西	西	西
風速(m/s)	5.8	3.5	3.2	3.1

福島第一(1F) 事務本館北(2号機より北西約0.5キロ) ※注水活動による効果を測定するためにより近傍へ移動

3月17日																							
モニタリングカー	15:50	15:55	16:00	16:05	16:10	16:15	17:00	17:05	17:10	17:15	17:20	17:25	17:30	17:35	17:40	17:45	17:50	17:55	18:00	18:05	18:10	18:15	18:20
測定値($\mu\text{Sv/h}$)	3700.0	3699.0	3698.0	3695.0	3695.0	3691.0	3676.0	3678.0	3675.0	3675.0	3672.0	3670.0	3667.0	3665.0	3639.0	3653.0	3650.0	3649.0	3649.0	3645.0	3641.0	3641.0	3645.0
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
風向	西	西	西	西	西	西	西	北西	北西	北西	北西	西	北西	北西	西北西	西	西	西	西北西	西	北西	西	西
風速(m/s)	5.2	4.7	4.3	4.1	4.3	4.1	3.1	3.3	2.8	2.7	3.3	3.2	3.4	3.7	3.6	3.3	2.7	2.4	2.1	2.2	2.4	2.4	2.6

3月17日												
モニタリングカー	18:25	18:30	18:35	18:40	18:50	19:00	19:10	19:20	19:50	20:00	20:10	
測定値($\mu\text{Sv/h}$)	3643.0	3643.0	3637.0	3638.0	3638.0	3630.0	3626.0	3623.0	3599.0	3601.0	3586.0	
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
風向	西	西北西	北西	北西	西北西	西南西	西北西	西	北西	北東	西北西	
風速(m/s)	2.8	2.7	2.7	2.9	2.4	2.7	2.7	2.3	4.8	1.5	1.4	

福島第一(1F) 西門(MP-5付近)(2号機より西約1.1キロ) ※放水が終了し、定点で測定するための移動

3月17日																			
モニタリングカー	20:40	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50
測定値($\mu\text{Sv/h}$)	292.2	291.9	291.7	291.3	291.2	291.1	290.9	290.4	290.4	289.9	289.7	289.6	289.5	289.0	289.0	288.8	288.7	287.8	288.9
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
風向	西北西	北西	北西	西	北西	北西	北西	北西	北西	北西	北西	北西	北西	北西	北東	北西	北北西	北西	北西
風速(m/s)	1.2	0.9	1.6	1.7	1.8	1.5	1.5	1.4	1.5	1.3	1.0	1.3	1.2	0.9	0.9	0.7	1.2	1.3	1.0

3月18日																							
モニタリングカー	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40
測定値($\mu\text{Sv/h}$)	287.0	287.3	286.6	286.4	286.3	286.0	285.6	285.5	285.2	284.9	284.6	284.4	284.0	283.7	283.7	283.5	283.0	282.9	282.6	282.2	282.1	281.6	281.5
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
風向	西	西	西	西	北西	西北西	北西	北西	北西	北西	北	北西	北西	北西	北東	北東	北東	北北東	北西	西	西北西	西北西	西
風速(m/s)	1.4	1.0	1.0	0.8	0.9	1.0	1.6	1.5	1.7	1.4	0.9	0.6	1.0	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.7

3月18日																							
モニタリングカー	3:50	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30
測定値($\mu\text{Sv/h}$)	281.1	281.1	280.9	280.7	280.2	280.0	279.8	279.4	279.3	279.0	278.9	278.9	277.1	274.0	274.0	273.8	274.1	272.7	273.4	272.4	271.7	271.6	271.4
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
風向	東	西	西	北	北西	北	北東	北北東	北北西	北	北西	北西	北	北東	西	北	西	北西	西	西	北	北	西
風速(m/s)	0.4	0.5	0.5	0.4	0.2	0.6	0.5	0.5	0.5	0.6	0.7	1.0	1.0	1.3	1.6	1.4	1.2	1.5	1.6	2.3	2.1	1.9	2.0

3月18日																							
モニタリングカー	7:40	7:50	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20
測定値($\mu\text{Sv/h}$)	271.1	271.2	270.6	270.3	269.9	269.9	269.8	268.2	268.7	267.6	268.9	267.5	267.0	266.9	266.7	266.4	266.1	265.7	265.4	264.8	265.0	264.4	264.5
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
風向	北西	北	北西	北西	西	西	西	北西	西北西	西北西	西	西	西	西北西	北北西	西	北西	北西	北	南西	西	北	北西
風速(m/s)	2.9	3.0	2.7	2.9	3.4	3.7	3.3	2.5	2.6	2.8	2.3	3.3	2.9	3.1	2.0	1.8	2.2	2.5	2.3	1.8	1.9	1.5	1.3

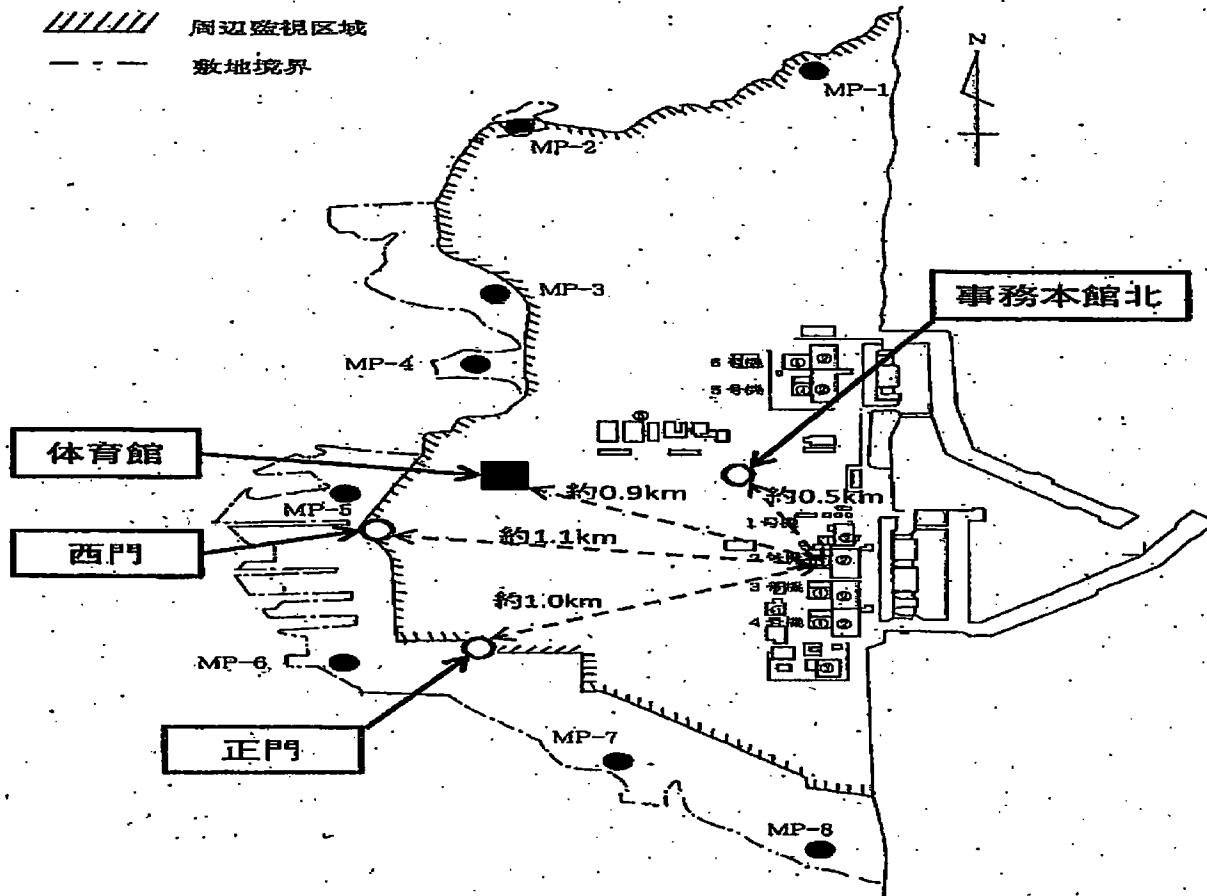
3月18日													
モニタリングカー	11:30	11:40	11:50	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30
測定値($\mu\text{Sv/h}$)	264.1	264.4	263.4	263.5	263.1	262.9	263.3	264.3	261.3	262.0	261.9	262.7	264.1
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
風向	南西	南西	西北西	北	西	南東	東	南	南東	南	東南東	南東	東
風速(m/s)	1.5	1.7	1.6	1.7	1.3	1.2	1.1	1.8	2.7	3.0	2.6	2.5	2.0

福島第一(1F) 事務本館北(2号機より北西約0.5キロ) ※注水活動による効果を測定するためにより近傍へ移動

3月18日																							
モニタリングカー	13:50	14:00	14:10	14:15	14:20	14:25	14:30	14:35	14:40	14:45	14:50	14:55	15:00	15:10	15:20	15:30	15:40	15:50	16:00				
測定値($\mu\text{Sv/h}$)	3484.0	3414.0	3382.0	3371.0	3362.0	3357.0	3352.0	3342.0	3348.0	3357.0	3339.0	3346.0	3345.0	3368.0	3582.0	4075.0	3823.0	4396.0	4485.0				
中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
風向	東南東	南南東	南東	東南東	南	東南東	南東	南南東	南南東	南南東	東南東	南	南東	南	南南東	南南東	南南東	南南東	南南東				
風速(m/s)	1.8	2.0	1.7	1.6	1.7	1.9	1.9	1.7	1.8	1.6	1.5	1.5	1.4	1.7	1.9	2.3	2.1	2.2	2.4				

福島第一原子力発電所

2011/3/17



島第二(2F)(事業者のモニタリングポスト)

3月17日																						
モニタリングポスト	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MP1(μSv/h)	25.0	24.9	24.9	24.8	24.7	24.8	24.7	24.6	24.5	24.4	24.3	24.4	24.3	24.2	24.2	24.2	24.1	24.1	24.0	24.0	24.0	23.8
MP2(μSv/h)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中
MP3(μSv/h)	25.2	25.0	25.0	25.0	25.0	25.0	25.1	24.9	24.7	24.7	24.8	24.6	24.7	24.5	24.6	24.5	24.5	24.4	24.3	24.2	24.3	24.3
MP4(μSv/h)	17.4	17.4	17.4	17.4	17.4	17.3	17.3	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.1	17.1	17.1	17.1	17.0
MP5(μSv/h)	15.6	15.5	15.5	15.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
MP6(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	西北西	西北西	北西	西	西北西	西	西北西	西北西	西北西	西北西	西北西	西	西	西北西	西	西	西	西	西	西	西	西
風速(m/s)	6.9	6.1	4.2	4.3	5.5	5.2	5.8	6.8	7.3	6.8	6.0	7.2	5.9	5.0	6.0	8.7	10.0	9.6	10.9	9.6	12.6	12.4

3月17日																						
モニタリングポスト	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30
MP1(μSv/h)	23.9	23.8	23.7	23.6	23.6	23.6	23.5	23.6	23.6	23.6	23.5	23.5	23.5	23.5	23.5	23.4	23.4	23.4	23.3	23.3	23.3	23.3
MP2(μSv/h)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中
MP3(μSv/h)	24.2	24.2	24.2	24.0	23.9	24.0	23.9	23.9	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.6	23.7	23.6	23.6	23.5
MP4(μSv/h)	17.0	17.0	16.9	16.9	16.8	16.8	16.8	16.7	16.7	16.6	16.7	16.6	16.6	16.6	16.6	16.5	16.5	16.5	16.5	16.5	16.5	16.5
MP5(μSv/h)	15.5	15.5	15.4	15.4	15.4	15.4	15.4	15.2	15.1	15.2	15.1	15.1	15.1	15.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
MP6(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	西	西	西	西	西	西	西北西	西	西	西	西	西	西	西	西	西	西	西	西北西	西	西	西
風速(m/s)	11.4	12.3	11.7	11.3	12.6	8.7	9.5	9.4	8.6	10.5	11.7	10.8	11.0	10.5	11.2	15.2	12.8	13.1	13.0	15.1	17.2	16.9

3月17日																						
モニタリングポスト	7:40	7:50	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10
MP1(μSv/h)	23.3	23.2	23.2	23.2	23.2	23.1	23.0	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.8	22.8	22.7	22.8	22.7	22.6	22.6
MP2(μSv/h)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中
MP3(μSv/h)	23.5	23.5	23.5	23.5	23.4	23.4	23.5	23.4	23.3	23.4	23.2	23.2	23.1	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
MP4(μSv/h)	16.4	16.4	16.4	16.3	16.3	16.3	16.3	16.3	16.3	16.2	16.1	16.1	16.1	16.1	16.0	16.1	16.1	16.0	16.0	16.1	16.0	16.0
MP5(μSv/h)	14.8	14.8	14.8	14.8	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.5	14.5	14.5
MP6(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	西	西	西	西	西	西	西	西	西	西	西	西	西	西	西	西	西	西	西	西	西	西
風速(m/s)	18.1	16.5	18.8	19.1	19.0	16.8	16.1	16.7	19.2	17.3	14.5	15.7	14.6	14.3	16.7	17.6	16.4	16.8	17.8	14.2	13.6	11.9

3月17日																						
モニタリングポスト	11:20	11:30	11:40	11:50	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50
MP1(μSv/h)	22.4	22.5	22.5	22.5	22.4	22.4	22.3	22.4	22.4	22.2	22.2	22.2	22.2	22.2	22.1	22.0	22.2	22.1	22.2	22.1	22.1	22.0
MP2(μSv/h)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中
MP3(μSv/h)	23.0	23.0	22.9	22.9	22.8	22.8	22.9	22.8	22.8	22.7	22.6	22.7	22.6	22.6	22.5	22.6	22.5	22.5	22.5	22.5	22.5	22.4
MP4(μSv/h)	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.7	15.8	15.8	15.8	15.8	15.7	15.7	15.7	15.7	15.7	15.6	15.6	15.6	15.5	15.6
MP5(μSv/h)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.2	14.2	14.2	14.2	14.2
MP6(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	西	西北西	北西	西	北西	西	西	西	西	西	西北西	西北西	西北西	西	北西	北西	北西	北西	北西	北西	西	北西
風速(m/s)	11.6	7.9	7.9	7.9	6.0	9.2	11.2	9.2	8.2	8.7	9.1	7.5	8.8	7.3	8.5	8.4	8.7	9.2	8.1	8.0	7.4	3.2

3月17日																						
Eニタリングポスト	15:00	15:10	15:20	15:30	15:40	15:50	16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30
MP1($\mu\text{Sv/h}$)	21.9	21.9	21.9	21.8	21.8	21.8	21.8	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.6	21.6	21.4	21.5	21.4	21.4
MP2($\mu\text{Sv/h}$)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中
MP3($\mu\text{Sv/h}$)	22.5	22.4	22.4	22.4	22.4	22.4	22.4	22.3	22.3	22.3	22.2	22.1	22.2	22.1	22.0	22.0	22.0	22.0	21.9	22.0	21.9	22.0
MP4($\mu\text{Sv/h}$)	15.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.4	15.5	15.4	15.3	15.4	15.3	15.3	15.3	15.3	15.3	15.3	15.2	15.3
MP5($\mu\text{Sv/h}$)	14.2	14.2	14.2	13.5	13.6	14.2	14.1	14.1	14.1	14.1	14.1	14.2	14.1	14.1	14.0	14.1	14.0	14.0	14.0	14.0	14.0	14.0
MP6($\mu\text{Sv/h}$)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7($\mu\text{Sv/h}$)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	西	北西	西	西	西	西	西	北西	北西	北北西	西北西	西	西	西	西	西	西	西	西	西北西	西	西
風速(m/s)	5.3	3.6	6.3	6.9	8.4	9.2	7.8	4.6	2.5	4.2	3.7	2.0	5.0	10.6	11.2	14.5	12.3	11.4	13.9	14.2	13.6	12.1

3月17日																						
Eニタリングポスト	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50	20:00	20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10
MP1($\mu\text{Sv/h}$)	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.2	21.2	21.2	21.2	21.2	21.1	21.1	21.1	21.1	21.1	21.0	21.0
MP2($\mu\text{Sv/h}$)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中
MP3($\mu\text{Sv/h}$)	21.9	21.9	21.9	21.9	21.9	21.7	21.8	21.8	21.8	21.6	21.6	21.6	21.7	21.7	21.6	21.5	21.6	21.6	21.5	21.5	21.5	21.5
MP4($\mu\text{Sv/h}$)	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.1	15.2	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.0
MP5($\mu\text{Sv/h}$)	14.0	14.0	14.0	13.9	14.0	13.9	13.9	13.8	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.7	13.7	13.7	13.7	13.7	13.6	13.6
MP6($\mu\text{Sv/h}$)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7($\mu\text{Sv/h}$)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	西		西北西	西	西	西	西北西	西	北西	西北西	西北西	西北西	北北西	北	西北西	西	北西	北東	北西	北西	北西	西北西
風速(m/s)	11.0	9.5	9.2	11.4	10.3	9.5	8.7	8.1	6.2	6.7	5.2	4.1	2.6	5.1	4.0	3.9	1.5	0.9	2.6	3.1	3.7	2.8

3月17日										
Eニタリングポスト	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50
MP1($\mu\text{Sv/h}$)	21.1	21.0	21.0	21.0	20.9	21.0	20.9	20.8	20.8	20.8
MP2($\mu\text{Sv/h}$)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中
MP3($\mu\text{Sv/h}$)	21.5	21.5	21.5	21.4	21.4	21.4	21.4	21.4	21.3	21.3
MP4($\mu\text{Sv/h}$)	15.1	15.0	15.0	14.9	15.0	14.9	14.9	14.9	14.9	14.8
MP5($\mu\text{Sv/h}$)	13.6	13.5	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.4
MP6($\mu\text{Sv/h}$)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7($\mu\text{Sv/h}$)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	北西	北西	西北西	北西	西北西	西	西	西	西	西
風速(m/s)	2.6	2.3	1.7	2.8	6.7	6.9	8.7	8.3	7.2	5.0

3月18日																							
ニタリングポスト	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	
MP1(μ Sv/h)	20.8	20.8	20.7	20.7	20.7	20.7	20.7	20.7	20.6	20.6	20.6	20.6	20.6	20.7	20.5	20.5	20.5	20.5	20.5	20.4	20.5	20.4	20.4
MP2(μ Sv/h)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	
MP3(μ Sv/h)	21.3	21.3	21.3	21.3	21.2	21.1	21.0	21.1	21.1	21.1	21.0	21.0	20.9	21.0	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	
MP4(μ Sv/h)	14.8	14.8	14.8	14.8	14.7	14.7	14.7	14.6	14.6	14.7	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.5	14.6	14.6	
MP5(μ Sv/h)	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	
MP6(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
MP7(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
風向	西北西	西北西	西	西	西	西北西	北西	北西	北西	北西	北西	北西	北西	北西	西北西	北西	北西	北北西	北北西	北	北	北	
風速(m/s)	5.2	8.1	8.0	7.7	6.8	7.0	7.3	6.1	5.6	6.4	6.5	6.7	7.7	7.2	6.0	5.2	5.1	2.3	3.4	3.9	3.9	3.1	

3月18日																						
ニタリングポスト	3:40	3:50	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10
MP1(μ Sv/h)	20.3	20.3	20.4	20.3	20.3	20.3	20.3	20.2	20.3	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.1	20.1	20.1	20.1	20.0	20.1
MP2(μ Sv/h)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中
MP3(μ Sv/h)	20.9	20.9	20.8	20.8	20.8	20.8	20.8	20.7	20.7	20.7	20.5	20.5	20.6	20.5	20.5	20.5	20.5	20.5	20.4	20.4	20.4	20.4
MP4(μ Sv/h)	14.6	14.6	14.5	14.5	14.5	14.5	14.5	14.4	14.5	14.5	14.4	14.5	14.4	14.3	14.3	14.3	14.3	14.3	14.3	14.2	14.2	14.2
MP5(μ Sv/h)	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.3	13.3	13.0	13.0	12.9	12.8	12.6	12.7	12.5	12.5
MP6(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	北北西	北西	北西	北西	北北西	北	北	北	北	北	北	北	北	北西	西	北北西	北北西	西北西	北西	北西	北西	北北西
風速(m/s)	3.0	3.1	2.8	2.6	4.2	5.4	5.0	4.5	2.9	3.0	3.4	2.0	1.8	1.1	1.4	2.8	3.6	2.8	5.9	6.6	5.0	2.8

3月18日																						
ニタリングポスト	7:20	7:30	7:40	7:50	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50
MP1(μ Sv/h)	20.1	20.0	20.0	20.0	20.0	19.8	19.8	19.8	19.7	19.8	19.8	19.7	19.7	19.7	19.7	19.7	19.7	19.6	19.5	19.5	19.5	19.4
MP2(μ Sv/h)	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	点検中	11.9	11.9	11.9	11.9	11.8	11.8	11.8	11.7	11.7	11.8	11.7
MP3(μ Sv/h)	20.3	20.4	20.4	20.3	20.3	20.3	20.2	20.3	20.1	20.2	20.1	20.1	20.1	20.0	20.0	20.0	19.9	19.9	19.9	19.9	19.9	19.8
MP4(μ Sv/h)	14.2	14.2	14.2	14.2	14.1	14.1	14.2	14.1	14.1	14.1	14.0	14.0	14.0	13.9	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.8
MP5(μ Sv/h)	12.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.4
MP6(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	北西	北西	北	西北西	北北西	北西	北西	北	北西	北北西	北北西	北北西	北北西	北北西	北北西	西北西	西北西	北西	北西	北西	北西	北西
風速(m/s)	1.3	1.4	1.7	2.8	6.5	5.8	4.4	3.2	3.9	7.2	5.6	4.9	7.6	5.0	5.8	6.1	5.7	4.1	4.0	3.4	3.2	3.9

3月18日																							
モニタリングポスト	11:00	11:10	11:20	11:30	11:40	11:50	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	
MP1(μ Sv/h)	19.4	19.4	19.4	19.3	19.3	19.3	19.3	19.2	19.2	19.2	19.2	19.2	19.4	19.3	19.4	19.6	19.6	19.8	19.3	19.3	19.2	19.2	
MP2(μ Sv/h)	11.7	11.7	11.7	11.7	11.7	11.7	11.6	11.6	11.6	11.6	11.6	11.6	11.7	11.7	11.9	11.8	12.0	12.2	11.7	11.7	11.5	11.6	
MP3(μ Sv/h)	19.8	19.8	19.8	19.8	19.6	19.7	19.7	19.5	19.6	19.5	19.6	19.5	19.6	19.5	19.8	19.8	20.0	19.9	19.7	19.6	19.6	19.5	
MP4(μ Sv/h)	13.8	13.8	13.7	13.8	13.8	13.7	13.7	13.7	13.7	13.7	13.6	13.6	13.7	13.7	13.8	13.8	14.1	14.1	13.8	13.8	13.8	13.7	
MP5(μ Sv/h)	12.4	12.4	12.3	12.4	12.3	12.3	12.2	12.2	12.2	12.2	12.2	12.2	12.3	12.2	12.5	12.5	12.5	12.5	12.5	12.3	12.3	12.3	
MP6(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
MP7(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
風向	北西	西	南西	南南東	南南東	南	南南東	南東	南東	南東	南南東	南東	南東	南東	南東	南東	南東	南東	南東	東南東	東南東	東	東
風速(m/s)	2.7	1.9	2.1	5.4	5.6	5.7	5.8	5.4	5.1	5.7	4.9	3.8	3.6	4.4	3.0	4.1	3.6	1.9	3.7	4.2	4.3	4.5	

3月18日									
モニタリングポスト	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50	16:00
MP1(μ Sv/h)	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.0
MP2(μ Sv/h)	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.5	11.4
MP3(μ Sv/h)	19.5	19.5	19.5	19.5	19.4	19.4	19.4	19.3	19.3
MP4(μ Sv/h)	13.7	13.7	13.7	13.7	13.7	13.6	13.6	13.5	13.5
MP5(μ Sv/h)	12.2	12.2	12.3	12.2	12.2	12.0	12.0	12.0	12.0
MP6(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
MP7(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	東南東	南東	東南東	東南東	南東	南東	南南東	南	南東
風速(m/s)	3.3	3.1	2.9	2.8	3.3	2.5	3.0	1.7	2.2

各発電所等の環境モニタリング結果

単位: $\mu\text{Sv/h}$

通常の平常値の範囲	会社名	発電所名	3月17日											
			12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
0.023~0.027	北海道電力㈱	泊発電所	0.025	0.025	0.026	0.028	0.028	0.03	0.032	0.031	0.026	0.024	0.023	0.024
0.024~0.060		女川原子力発電所	3.10	3.10	3.16	3.10	3.10	3.00	3.00	3.00	2.90	2.90	2.90	2.60
0.012~0.060	東北電力㈱	東通原子力発電所	0.018	0.017	0.017	0.019	0.018	0.017	0.017	0.017	0.018	0.018	0.017	0.019
0.033~0.050		福島第一原子力発電所*	311	309.7	3810	309.1	3698	3676	3649	3630	3601	2919	290.4	289
0.036~0.052	東京電力㈱	福島第二原子力発電所	22.8	22.6	22.5	22.5	22.4	22.2	21.9	21.9	21.8	21.6	21.5	21.4
0.011~0.159		柏崎刈羽原子力発電所	0.064	0.064	0.064	0.064	0.065	0.064	0.064	0.064	0.062	0.063	0.064	0.064
0.036~0.053		東海第二発電所	0.790	0.781	0.774	0.769	0.765	0.759	0.751	0.750	0.743	0.740	0.741	0.735
0.039~0.110	日本原子力発電㈱	敦賀発電所	0.073	0.075	0.074	0.073	0.073	0.073	0.075	0.075	0.075	0.077	0.074	0.075
0.064~0.108		浜岡原子力発電所	0.069	0.068	0.069	0.069	0.068	0.068	0.068	0.068	0.069	0.068	0.068	0.068
0.0207~0.132	北陸電力㈱	志賀原子力発電所	0.034	0.032	0.033	0.035	0.035	0.033	0.032	0.032	0.032	0.033	0.032	0.032
0.028~0.130	中国電力㈱	島根原子力発電所	0.04	0.038	0.031	0.031	0.031	0.029	0.029	0.028	0.031	0.03	0.029	0.03
0.076~0.077		美浜発電所	0.075	0.077	0.074	0.072	0.074	0.071	0.073	0.075	0.073	0.075	0.071	0.071
0.045~0.047	関西電力㈱	高浜発電所	0.053	0.049	0.048	0.046	0.048	0.048	0.044	0.044	0.049	0.044	0.042	0.043
0.036~0.040		大飯発電所	0.041	0.038	0.043	0.038	0.038	0.04	0.035	0.038	0.038	0.041	0.036	0.037
0.011~0.080	四国電力㈱	伊方発電所	0.014	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015
0.023~0.087	九州電力㈱	玄海原子力発電所	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.026	0.026	0.027	0.028	0.026
0.034~0.120		川内原子力発電所	0.037	0.039	0.037	0.037	0.038	0.038	0.039	0.038	0.038	0.037	0.037	0.038
0.009~0.069	日本原燃(株)	六ヶ所 再処理事業所	0.014	0.015	0.019	0.018	0.016	0.015	0.014	0.014	0.014	0.014	0.014	0.015
0.009~0.071		六ヶ所 埋設事業所	0.015	0.016	0.022	0.020	0.017	0.016	0.016	0.016	0.016	0.019	0.017	0.016

*福島第一原子力発電所については、作業状況により若干測定時間のずれ及び測定位置の変更が生じることもございます。

通常の平常値の範囲	会社名	発電所名	3月18日											
			0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
0.023~0.027	北海道電力㈱	泊発電所	0.023	0.023	0.023	0.024	0.023	0.024	0.024	0.024	0.024	0.024	0.023	
0.024~0.060		女川原子力発電所	2.80	2.80	2.70	2.70	2.70	2.70	2.60	2.60	2.60	2.60	2.60	
0.012~0.060	東北電力㈱	東通原子力発電所	0.018	0.017	0.016	0.017	0.016	0.017	0.016	0.017	0.016	0.017	0.016	
0.033~0.050		福島第一原子力発電所*	287	285.5	284	282.5	281.1	279.4	274	272.4	270.5	268.7		
0.036~0.052	東京電力㈱	福島第二原子力発電所	21.3	21	20.9	20.9	20.8	20.7	20.5	20.4	20.3	20.1		
0.011~0.159		柏崎刈羽原子力発電所	0.064	0.064	0.064	0.062	0.063	0.064	0.064	0.062	0.063	0.063		
0.036~0.053		東海第二発電所	0.733	0.726	0.725	0.719	0.716	0.710	0.708	0.710	0.705	0.695		
0.039~0.110	日本原子力発電㈱	敦賀発電所	0.072	0.071	0.073	0.072	0.075	0.073	0.072	0.070	0.072	0.072		
0.064~0.108		浜岡原子力発電所	0.068	0.068	0.068	0.068	0.068	0.069	0.068	0.068	0.068	0.069		
0.0207~0.132	北陸電力㈱	志賀原子力発電所	0.032	0.032	0.032	0.032	0.031	0.031	0.031	0.032	0.031			
0.028~0.130	中国電力㈱	島根原子力発電所	0.03	0.03	0.03	0.028	0.03	0.03	0.029	0.029	0.029	0.03		
0.070~0.077		美浜発電所	0.071	0.069	0.072	0.072	0.071	0.072	0.071	0.071	0.071			
0.045~0.047	関西電力㈱	高浜発電所	0.042	0.042	0.042	0.042	0.042	0.041	0.042	0.042	0.042			
0.036~0.040		大飯発電所	0.036	0.034	0.034	0.035	0.035	0.035	0.034	0.034	0.034			
0.011~0.080	四国電力㈱	伊方発電所	0.014	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014			
0.023~0.087	九州電力㈱	玄海原子力発電所	0.028	0.026	0.027	0.026	0.026	0.026	0.027	0.027	0.027	0.027		
0.034~0.120		川内原子力発電所	0.037	0.038	0.036	0.038	0.036	0.037	0.038	0.038	0.039	0.038		
0.009~0.069	日本原燃(株)	六ヶ所 再処理事業所	0.014	0.014	0.014	0.014	0.014	0.013	0.014	0.013	0.014	0.015		
0.009~0.071		六ヶ所 埋設事業所	0.016	0.015	0.015	0.016	0.015	0.015	0.015	0.015	0.015	0.017		

*福島第一原子力発電所については、作業状況により若干測定時間のずれ及び測定位置の変更が生じることもございます。

3/18(金) 9時 時点

平成23年3月18日
原子力安全・保安院

地震被害情報（第30報） （3月18日15時00分現在）

原子力安全・保安院が現時点で把握している東京電力(株)福島第一原子力発電所、福島第二原子力発電所、東北電力(株)女川原子力発電所、日本原子力発電(株)東海第二、電気、ガス、熱供給、コンビナート被害の状況は、以下のとおりです。

前回からの変更点は以下のとおり。

1. 原子力発電所関係

○福島第一原子力発電所

【放水関係】

- ・自衛隊消防車6台（6t放水/台）が地上放水を実施（18日14時前～14:38）
- ・米軍消防車1台が地上放水を実施（18日14:45終了）
- ・ハイパーレスキュー（30台）が地上放水のためJビレッジ到着（18日14:45）。

<使用済燃料共用プール>

- ・18日11時19分時点でのプール水温度は5.5℃。

2. 産業保安関係

別紙参照

3. 原子力安全・保安院等の対応

【3月18日】

- 13:00 文部科学省にて、福島第一、第二原子力発電所の緊急時における全国的モニタリング調査の強化を決定

<負傷者の状況>

- ・福島第二原子力発電所内の診療所に変電所から腹痛を訴える人が来たが、被ばくをしていないことからいわき市の診療所へ搬送。

(別紙)

1 発電所の運転状況【自動停止号機数：10基】

○東京電力(株)福島第一原子力発電所（福島県双葉郡大熊町及び双葉町）

(1) 運転状況

- 1号機 (46万 kW) (自動停止)
- 2号機 (78万4千 kW) (自動停止)
- 3号機 (78万4千 kW) (自動停止)
- 4号機 (78万4千 kW) (定検により停止中)
- 5号機 (78万4千 kW) (定検により停止中)
- 6号機 (110万 kW) (定検により停止中)

(2) モニタリングの状況

別添参照

(3) 主なプラントパラメーター (18日 14:00 現在)

	1号機	2号機	3号機	4号機	5号機	6号機
原子炉圧力*1 [MPa]	0.270(A) 0.247(B)	0.087(A) 0.072(B)	0.083(A) 0.101(B)	—	1.322	0.671
原子炉格納容器圧力 (D/W) [kPa]	不明	130	155	—	—	—
原子炉水位*2 [Mm]	-1700(A) D/S (B)	-1400(A) 不明 (B)	-2000(A) -2300(B)	—	1969	2712
原子炉格納容器内 S/C 水温 [°C]	—	—	—	—	—	—
原子炉格納容器内 S/C 圧力 [kPa]	不明	D/S	D/S	—	—	—
使用済燃料プール 水温度 [°C]	—	—	—	84	66.3	64.0
備考	3/18 07:55 現在の値	3/18 07:55 現在の値	3/18 12:35 現在の値	3/14 04:18 現在の値	3/18 13:00 現在の値	3/18 13:00 現在の値

* 1 : 絶対圧に換算

* 2 : 燃料頂部からの数値

(4) その他異常に関する報告

- ・原子力災害対策特別措置法第10条通報 (11日 15:42)
- ・同第15条 (原子炉冷却機能喪失) 通報 (福島第一原子力発電所1、2号機) (11日 16:36)
- ・東北電力の送電線から受電するケーブルを敷設。放水作業後に2号機へ接続予定 (17日 17:30)。1～4号外部電源の復旧等に係る作業内容 (東北電力(株)送電系統からの受電、自社変電所よりルート変更を介しての受電)を確認中 (18日 06:30 現在)

<1号機関係>

- ・1号機の原子炉圧力容器内に消火系ラインを用いて海水注入開始(13日 11:55)
→14日 01:10 一時中断
- ・1号機で爆発音。(12日 15:36)
- ・原子炉圧力容器へ海水注入中。(18日 15:00 現在)

<2号機関係>

- ・2号機は注水機能を維持 (13日 14:00)
- ・3号機の建屋の爆発に伴い、原子炉建屋ブローアウトパネル開放 (14日 11時過ぎ)
- ・2号機の原子炉圧力容器の水位が低下傾向 (14日 13:18)。原子力災害対策特別措置法第15条事象 (原子炉冷却機能喪失) である旨、受信 (14日 13:49)
- ・2号機の原子炉圧力容器内に消火系ラインを用いて海水注入準備(14日 19:20)
- ・東京電力によると、2号機の炉心損傷評価を実施し、「5%以下」と判断。(14日 22:14)
- ・2号機の原子炉圧力容器の水位が低下傾向 (14日 22:50)
- ・2号機で爆発音するとともに、サプレッションプール (圧力抑制室) の圧力低下 (15日 6:10)。同室に異常が発生したおそれ。(15日 6:20 頃)
- ・原子炉圧力容器へ海水注入中。原子炉建屋ブローアウトパネルから白煙吐出継続。(18日 15:00 現在)

<3号機関係>

- ・3号機の原子炉圧力容器内に消火系ラインにて真水注入開始(13日 11:55)
- ・3号機の原子炉圧力容器内に消火系ラインを用いて海水注入開始(13日 13:12)
- ・3号機及び1号機の注入をくみ上げ箇所の海水が少なくなったため停止。(14日 1:10)

- ・ 3号機の海水注入を再開(14日 3:20)
- ・ 3号機の格納容器圧力が異常上昇(14日 7:44)。原子力災害対策特別措置法第15条事象である旨、受信(14日 7:52)。
- ・ 3号機で1号機と同様に原子炉建屋付近で爆発(14日 11:01)
- ・ 3号機から白い湯気のような煙が発生(16日 8:30頃)
- ・ 3号機の格納容器が破損しているおそれがあるため、中央制御室(共用)から作業員待避(16日 10:45)。その後、作業員は中央制御室に復帰し、注水作業再開(16日 11:30)
- ・ 自衛隊のヘリにより3号機への海水の投下を4回実施(17日 9:48、9:52、9:58、10:01)
- ・ 機動隊が地上放水のため現場到着(17日 16:10)
- ・ 17日 19:35から、自衛隊により放水。
- ・ 警察庁機動隊による地上放水(17日 19:05~19:13)
- ・ 自衛隊消防車5台が地上放水を実施(17日)
(各台放水開始時刻:17日 19:35、19:45、19:53、20:00、20:07)
- ・ 自衛隊消防車6台(6t放水/台)が地上放水を実施(18日 14時前~14:38)
- ・ 米軍消防車1台が地上放水を実施(18日 14:45終了)
- ・ ハイパーレスキュー(30台)が地上放水のためJビレッジ到着(18日 14:45)。
- ・ 原子炉圧力容器へ海水注入中。白煙吐出継続(18日 15:00 現在)

<4号機関係>

- ・ 4号機のオペレーションエリアの壁が一部破損していることを確認(15日 6:14)。
- ・ 4号機で火災発生。(15日 9:38) 事業者によると、自然に火が消えていることを確認(15日 11:00頃)
- ・ 4号機の使用済燃料貯蔵プール水温度が上昇(3月14日 4:08時点で84℃)
- ・ 4号機で火災が発生(16日 5:45頃)。事業者によると、現場での火は確認できず(16日 6:15頃)。
- ・ 原子炉圧力容器のシュラウド工事中のため、原子炉圧力容器内に燃料はなし。白煙吐出継続(18日 15:00 現在)

<5号機, 6号機関係>

- ・ 6号機の非常用 D/G (1台) は運転可能。これにより5, 6号機に電力供給中。MUWC (復水補給水系) を用いて原子炉圧力容器及び使用済燃料プールへ注水をしている。

<使用済燃料共用プール>

- ・ 18日6:00過ぎ、プールはほぼ満水であることを確認。
- ・ 18日11時19分時点でのプール水温度は55℃。

○東京電力(株)福島第二原子力発電所（福島県双葉郡楢葉町及び富岡町）

(1) 運転状況

- 1号機 (110万kW) (自動停止、14日17:00冷温停止)
- 2号機 (110万kW) (自動停止) 14日18:00冷温停止)
- 3号機 (110万kW) (自動停止、12日12:15冷温停止)
- 4号機 (110万kW) (自動停止、15日7:15冷温停止)

(2) モニタリングポスト等の指示値

別添参照

(3) 主なプラントパラメーター (18日13:00現在)

	単位	1号機	2号機	3号機	4号機
原子炉圧力* ¹	MPa	0.18	0.11	0.13	0.15
原子炉水温	℃	40.9	37.8	27.2	34.8
原子炉水位* ²	mm	10596	10146	7504	8905
原子炉格納容器内 サプレッションプール水温	℃	32	26	43	33
原子炉格納容器内 サプレッションプール圧力	kPa (abs)	144	117	128	121
備考		冷温停止中	冷温停止中	冷温停止中	冷温停止中

* 1 : 絶対圧に換算

* 2 : 燃料頂部からの数値

(4) その他異常等に関する報告

- ・ 1号機にて原子力災害対策特別措置法第10条通報 (11日18:08)
- ・ 1、2、4号機にて同法第10条通報 (11日18:33)
- ・ 1号機にて原子力災害対策特別措置法第15条事象 (圧力抑制機能喪失) 発生 (12日5:22)
- ・ 2号機にて原子力災害対策特別措置法第15条事象 (圧力抑制機能喪失) 発生 (12日5:32)
- ・ 4号機にて原子力災害対策特別措置法第15条事象 (圧力抑制機能喪失) 発生 (12日6:07)

○東北電力(株)女川原子力発電所（宮城県牡鹿郡女川町、石巻市）

(1) 運転状況

- 1号機 (52万4千kW) (自動停止、12日0:58冷温停止)

2号機 (82万5千kW) (自動停止、地震時点で冷温停止)

3号機 (82万5千kW) (自動停止、12日 1:17 冷温停止)

(2) モニタリングポスト等の指示値

MP 2 付近 (敷地最北敷地境界) 約 6,500nGy/h (14日 19:00)

→約 5400 nGy/h (15日 19:00)

(3) その他異常に関する報告

- ・タービン建屋地下1階の発煙は消火確認 (11日 22:55)
- ・原子力災害対策特別措置法第10条通報 (13日 13:09)

2 産業保安

○電気 3月18日 15:00 現在)

・東京電力 (3月18日 15:00 現在)

停電戸数: 約3千戸 (延べ停電戸数 約405万戸)

停電地域: 茨城県 潮来市、北茨城市、大洗町など (約3千戸)

・東北電力 (3月18日 14:00 現在)

停電戸数: 約3.2万戸 (延べ停電戸数 約48.6万戸)

停電地域: 青森県 三八の一部地域 (約1千戸)

岩手県 一部地域 (約5万戸)

宮城県 ほぼ全域 (約23万3千戸)

福島県 一部地域 (約3万9千戸)

・北海道電力

停電は12日14:00までに復旧済 (延べ停電戸数 約3千戸)

・中部電力

停電 (長野県) は12日17:11に復旧済 (延べ停電戸数 約4百戸)

○一般ガス (3月18日 15:00 現在)

死亡事故: 地震との関係も含め原因詳細調査中。

・盛岡ガス (盛岡市) 死者1名、負傷者10名

14日 8:00 デパートの地下での爆発

・東部ガス (いわき市) 死者1名

12日 11:30 一般住宅での漏えいガスに着火

北海道、山形県、秋田県においては、供給停止の報告はない。

各社の供給停止状況は以下の通り。

- ・東京ガス (日立市) 2,760戸供給停止
- ・仙台市営ガス 358,781戸供給停止
- ・塩釜ガス (塩釜市等) 12,382戸供給停止
- ・福島ガス (福島市) 140戸供給停止

- ・ 東部ガス（土浦市）5,469 戸供給停止
（水戸市）209 戸供給停止
- ・ 釜石ガス（釜石市）7,000 戸供給停止
- ・ 常磐共同ガス（いわき市）13,522 戸供給停止
- ・ 京葉ガス（浦安市）8,147 戸供給停止
- ・ 東北ガス（白河市）290 戸供給停止
- ・ 常磐都市ガス（いわき市）580 戸供給停止
- ・ 気仙沼市営ガス（気仙沼市）2,800 戸
- ・ 石巻ガス（石巻市）14,771 戸

○簡易ガス（3月18日15:00現在）

各社の供給停止状況は以下の通り。

- ・ 宮城ガス（塩竈市）651 戸供給停止
（仙台市）2,058 戸供給停止
（黒川郡富谷町）2,318 戸供給停止
- ・ 岩沼市農業協同組合（岩沼市）753 戸供給停止
- ・ 橋本産業（東松島市）80 戸供給停止
- ・ 福陽ガス（須賀川市）81 戸供給停止
- ・ 仙台市ガス局（名取市）1,225 戸供給停止
（仙台市）114 戸供給停止
（岩沼市）342 戸供給停止
（黒川郡富谷町）1,855 戸供給停止
- ・ カメイ（亶理郡山元町）189 戸供給停止
（白河市）596 戸供給停止
（須賀川市）783 戸供給停止
（いわき市）126 戸供給停止
（宮古市）197 戸供給停止
- ・ 共同ガス（須賀川市）163 戸供給停止
- ・ 東北ガス（白河市）360 戸供給停止
- ・ いわきガス（いわき市）594 戸供給停止
- ・ 相馬ガス（相馬市）143 戸供給停止
- ・ 相馬市ガス（相馬市）100 戸供給停止
- ・ 勝田ガス事業協同組合（ひたちなか市）647 戸供給停止
- ・ 帝石プロパンガス（高萩市）747 戸供給停止
- ・ 東京ガスエネルギー（ひたちなか市）90 戸供給停止
- ・ 丸片ガス（北上市）87 戸供給停止
- ・ 倉島商事（福島市）248 戸供給停止

- ・若松ガス（福島市）1,061 戸供給停止
- ・アイソン（安達郡本宮町）489 戸供給停止
- ・トーホクガス（多賀城市）130 戸供給停止
- ・総武ガス（匝瑳市）80 戸供給停止
- ・三重商会（大船渡市）81 戸供給停止（いわ）
- ・名取岩沼農業協同組合（岩沼市）586 戸供給停止

○熱供給（3月18日 15:00 現在）

- ・小名浜配湯（いわき市小名浜）供給停止

○コンビナート（3月18日 15:00 現在）

- ・コスモ石油千葉製油所（千葉縣市原市）
LPG貯槽の支柱が折れ、破損。ガス漏れ火災。
重傷者1名、軽傷4名
- ・JX日鉱日石エネルギー(株)仙台製油所（宮城県仙台市）
出荷設備エリアで爆発、火災が発生。3月15日午後鎮火。

3 原子力安全・保安院等の対応

【3月11日】

- 14:46 地震発生と同時に原子力安全・保安院に災害対策本部設置
- 15:42 福島第一原子力発電所にて原子力災害対策特別措置法第10条通報
- 16:36 福島第一原子力発電所1、2号機にて事業者が同法第15条事象（原子炉冷却機能喪失）発生判断（16:45通報）
- 18:08 福島第二原子力発電所1号機にて原子力災害対策特別措置法第10条通報
- 18:33 福島第二原子力発電所1、2、4号機にて原子力災害対策特別措置法第10条通報
- 19:03 緊急事態宣言（政府原子力災害対策本部及び同現地対策本部設置）
- 20:50 福島県対策本部は、福島第一原子力発電所1号機の半径2kmの住人に避難指示を出した。（2km以内の住人は1864人）
- 21:23 内閣総理大臣より、福島県知事、大熊町長及び双葉町長に対し、東京電力(株)福島第一原子力発電所で発生した事故に関し、原子力災害対策特別措置法第15条第3項の規定に基づく指示を出した。
 - ・福島第一原子力発電所1号機から半径3km圏内の住民に対する避難指示。

- ・福島第一原子力発電所1号機から半径10km圏内の住民に対する屋内待避指示。

24:00 池田経済産業副大臣現地対策本部到着

【3月12日】

- 5:22 福島第二原子力発電所1号機にて事業者が原子力災害対策特別措置法第15条事象（圧力抑制機能喪失）発生判断（6:27通報）
- 5:32 福島第二原子力発電所2号機にて事業者が原子力災害対策特別措置法第15条事象（圧力抑制機能喪失）発生判断（6:27通報）
- 5:44 総理指示により福島第一原子力発電所の10km圏内に避難指示
- 6:07 福島第二原子力発電所4号機にて原子力災害対策特別措置法第15条事象（圧力抑制機能喪失）発生

6:50 原子炉等規制法第64条第3項の規定に基づき、福島第一原子力発電所第1号機及び第2号機に設置された原子炉格納容器内の圧力を抑制することを命じた。

7:45 内閣総理大臣より、福島県知事、広野町長、楢葉町長、富岡町長及び大熊町長に対し、東京電力(株)福島第二原子力発電所で発生した事故に関し、原子力災害対策特別措置法第15条第3項の規定に基づく指示を出した。

- ・福島第二原子力発電所から半径3km圏内の住民に対する避難指示。

- ・福島第二原子力発電所から半径10km圏内の住民に対する屋内待避指示。

17:00 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象（敷地境界放射線量異常上昇）である旨、受信

17:39 内閣総理大臣が福島第二原子力発電所の避難区域

- ・福島第二原子力発電所から半径10km圏内の住民に対する避難を指示。

18:25 内閣総理大臣が福島第一原子力発電所の避難区域

- ・福島第一原子力発電所から半径20km圏内の住民に対する避難を指示。

19:55 福島第一原子力発電所1号機の海水注入について総理指示

20:05 総理指示を踏まえ、原子炉等規制法第64条第3項の規定に基づき、福島第一原子力発電所第1号機の海水注入等を命じた。

20:20 福島第一原子力発電所1号機の海水注入を開始

【3月13日】

5:38 福島第一原子力発電所3号機にて原子力災害対策特別措置法第15条事象（全注水機能喪失）である旨、受信。

当該サイトについて、東京電力において現在、電源及び注水機能の回復と、ベントのための作業を実施中。

- 9 : 0 1 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信
- 9 : 0 8 福島第一原子力発電所 3 号機の圧力抑制及び真水注入を開始
- 9 : 2 0 福島第一原子力発電所 3 号機の耐圧ベント弁開放
- 9 : 3 0 福島県知事、大熊町長、双葉町長、富岡町長、浪江町長に対し、原子力災害対策特別措置法に基づき、放射能除染スクリーニングの内容について指示
- 9 : 3 8 福島第一原子力発電所 1 号機にて原子力災害対策特別措置法第 1 5 条通報
- 1 3 : 0 9 女川原子力発電所にて原子力災害対策特別措置法第 1 0 条通報
- 1 3 : 1 2 福島第一原子力発電所 3 号機の注入を真水から海水に切り替え
- 1 4 : 3 6 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信

【3月14日】

- 1 : 1 0 福島第一原子力発電所 1 号機及び 3 号機の注入をくみ上げ箇所の海水が少なくなったため停止。
- 3 : 2 0 福島第一原子力発電所 3 号機の海水注入を再開
- 4 : 4 0 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信
- 5 : 3 8 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信
- 7 : 5 2 福島第一原子力発電所 3 号機にて原子力災害対策特別措置法第 1 5 条事象（格納容器圧力異常上昇）である旨、受信。
- 1 3 : 2 5 福島第一原子力発電所 2 号機にて原子力災害対策特別措置法第 1 5 条事象（原子炉冷却機能喪失）である旨、受信。
- 2 2 : 1 3 福島第二原子力発電所にて原子力災害対策特別措置法第 1 0 条通報
- 2 2 : 3 5 福島第一原子力発電所にて原子力災害対策特別措置法第 1 5 条事象（敷地境界放射線量異常上昇）である旨、受信

【3月15日】

- 0 : 0 0 国際原子力（IAEA）専門家派遣の受け入れを決定

IAEA 天野事務局長による原子力発電所の被害に関する専門家派遣の意向を受け、原子力安全・保安院は IAEA による知見ある専門家の派遣を受け入れることとした。なお、実際の受け入れ日程等については、今後調整を行う。

- 0 : 0 0 米国原子力規制委員会（NRC）専門家派遣の受け入れを決定
- 7 : 2 1 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象（敷地境界放射線量異常上昇）である旨、受信
- 7 : 2 4 （独）日本原子力研究開発機構東海研究開発センター核燃料サイクル工学研究所にて原子力災害対策特別措置法第10条通報
- 7 : 4 4 （独）日本原子力研究開発機構原子力科学研究所にて原子力災害対策特別措置法第10条通報
- 8 : 5 4 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象（敷地境界放射線量異常上昇）である旨、受信
- 10 : 3 0 経済産業大臣が原子炉等規制法に基づき、4号機の消火及び再臨界の防止、2号機の原子炉内への早期注水及びドライウエルのベントの実施について指示
- 10 : 5 9 今後の事態の長期化を考慮し、現地対策本部の機能を福島県庁内へ移転することを決定。
- 11 : 0 0 内閣総理大臣が福島第一原子力発電所の避難区域
・炉内の状況を考慮して、新たに福島第一原子力発電所から半径20km圏～30km圏内の住民に対する屋内待避を指示
- 16 : 3 0 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象（敷地境界放射線量異常上昇）である旨、受信
- 22 : 0 0 経済産業大臣が原子炉等規制法に基づき、4号機の使用済燃料プールへの注水の実施を指示
- 23 : 4 6 福島第一原子力発電所にて原子力災害対策特別措置法第15条事象（敷地境界放射線量異常上昇）である旨、受信

【3月18日】

- 13 : 0 0 文部科学省にて、福島第一、第二原子力発電所の緊急時における全国的モニタリング調査の強化を決定

<被ばくの可能性 (3月18日 15:00 現在) >

<住民の被ばく>

- (1) 二本松市福島県男女共生センターにおいて、双葉厚生病院からの避難者約60名を含む133名の測定を行い、13000cpm以上の23名に除染を実施した。
- (2) この他、福島県が用意した民間バスで、双葉厚生病院から川俣町済生会川俣病院へ移動した35名については、県対策本部は被ばくしていないと判断。
- (3) バスにより避難した双葉町の住民約100名について、100名のうち、9名について測定した結果、以下の通りだった。県外(宮城県)に分かれて避難したが、その後合流して二本松市福島男女共生センターへ移動。

カウント数	人数
18,000cpm	1名
30,000~36,000cpm	1名
40,000cpm	1名
40,000cpm 弱*	1名
ごく小さい値	5名

※ (1回目の測定では100,000cpmを超え、その後靴を脱いで測定した結果計測されたもの)

- (4) 3月12日から3月15日にかけて、大熊町のオフサイトセンターにおいて、スクリーニングを開始。現在までに162名が検査済み。初め除染の基準値を6,000cpmとし、110名が6,000cpm未満、41名が6,000cpm異常の値を示した。後に基準値を13,000cpmと引き上げた際には、8名が13,000cpm未満、3名が13,000cpm以上の値を示した。
検査を受けた162名のうち、5名が除染処置を施した後、病院へ搬送された。
- (5) 福島県において、避難した10km圏内の入院患者と病院関係者の避難を実施。関係者のスクリーニングを行った結果、3名について除染後も高い数値が検出されたため、第2次被ばく医療機関へ搬送。この搬送に関係した消防職員60名のスクリーニングで3名について、バックグラウンドの2倍以上程度の放射線が検出されたため、60名に対し除染を行った。

<従業員等の被ばく>

- (1) 福島第一原発で作業していた従業員18名。測定の結果、1名は106.3mSv、その他の方は健康に影響ないレベルであるが具体的な数値

は不明。106、3mSvの1名は、内部被ばくの恐れはなく医療的処置は不要とのこと。

- (2) 福島第一原発3号機の爆発の際に近くで作業していて負傷した従業員7名（意識あり）のうち6名。測定結果の詳細は不明。

<その他>

- (1) 福島県は3月13日からスクリーニングを開始。避難所を巡回、保健所等12ヶ所（常設）で実施中。実施結果は集計中。
- (2) 福島第一原発で給水作業に従事していた自衛隊員5名が被ばく。作業終了後（12日）、OFCへ移動後の測定では30,000cpm。除染後の測定では、5,000～10,000cpm。1名は放医研に搬送。防衛省において、その他自衛官の被ばくは確認されず。
- (3) 警察官について、警察庁において2名の除染の実施を確認。異常の報告はなし。

<避難時における安定ヨウ素剤投与の指示>

16日、原子力災害対策現地本部から、「避難区域（半径20km）からの避難時における安定ヨウ素剤投与の指示」を県知事及び市町村（富岡町、双葉町、大熊町、浪江町、川内村、楡葉町、南相馬市、田村市、葛尾村、広野町、いわき市、飯館村）宛に発出。

<負傷者の状況（3月18日15:00現在）>

1. 地震による被害
 - ・社員2名（軽傷）
 - ・協力会社2名（うち1名両足骨折）
 - ・行方不明2名（社員。4号タービン建屋内）
 - ・急病人1名発生（脳梗塞、救急車搬送、県情報）
 - ・管理区域外にて社員1名が左胸の痛みを訴えて救急車を要請（意識あり）
 - ・社員2名が中央制御室での全面マスク着用中に不調を訴え、福島第二の産業医の受診を受けるべく搬送
2. 福島第一原子力発電所1号機爆発による被害
 - ・1号機付近で爆発と発煙が発生した際に4名が1号タービン建屋付近（管理区域外）で負傷。川内診療所で診療。
3. 福島第一原子力発電所3号機の爆発による負傷
 - ・社員4名

- ・協力会社3名
- ・自衛隊4名（うち1名は内部被ばくの可能性を考慮し、「(独)放射線医学総合研究所」へ搬送。診察の結果内部被ばくはなし。3月16日退院)

4. その他の被害

- ・福島第二原子力発電所内の診療所に変電所から腹痛を訴える人が来たが、被ばくをしていないことからいわき市の診療所へ搬送。

<住民避難の状況（3月18日15:00現在）>

3月15日11:00、内閣総理大臣の指示により、福島第一原子力発電所半径20kmから30km圏内の住民に対して、屋内待避を指示。その旨を福島県及び関係自治体へ連絡。

福島第一原子力発電所20km圏外及び福島第二原子力発電所10km圏外への避難は、措置済。

- ・福島第一原子力発電所20kmから30km圏内の屋内待避について、徹底中
- ・福島県と連携して、屋内待避圏内の住民の生活支援等を実施。

(本発表資料のお問い合わせ)

原子力安全・保安院

原子力安全広報課：渡邊、金城

電話：03-3501-1505

03-3501-5890

(参考)

【東北地方太平洋沖地震】

1. 災害概要

(1) 発生日時：平成 23 年 3 月 11 日 (金) 14:46 発生

(2) 発生場所：震源三陸沖 (北緯 38 度、東経 142.9 度)

深さ 10km、マグニチュード 9.0

(3) 各地の震度

○震度 4 以上の地域

震度 7 宮城県北部

震度 6 強 茨城県北部、茨城県南部

震度 5 強 青森県三八上北

震度 5 弱 新潟県中越

震度 4

○震度 4 以上の市町村

震度 6 強 福島県檜葉町、富岡町、大熊町、双葉町

震度 6 弱 宮城県石巻市、女川町 (発電所の震度計による)、東海村

震度 5 弱 新潟県刈羽村

震度 4 青森県六ヶ所村、東通村、新潟県柏崎市、神奈川県横須賀市

震度 1 北海道泊村

**Japan Fukushima Nuclear Plant
Operations Center Lessons Learned**

(b)(5)

(b)(5)

Attachment Kilometers to Miles.url(603 bytes) cannot be converted to PDF format.

4月15日 福島第一(1F) 測定場所 ①事務本館北(2号機より北西約0.5キ口) ②体育館付近(MP-5東側)(2号機より西北西約0.9キ口)
 ③西門付近(MP-5付近)(2号機より西約1.1キ口) ④正門付近前(MP-6付近)(2号機より西南西約1.0キ口)
 ⑤免震棟前(2号機より北西約0.5キ口) ⑥事務本館南側 ⑦正門
 MC:モニタリングカー 可搬:可搬型MP

測定場所		③																							
時間		0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MC	測定値(μSv/h)	36.5	36.7	36.6	36.6	36.6	36.6	36.9	36.8	36.8	37.6	38.3	36.7	36.6	36.5	36.8	36.7	36.4	36.7	36.5	36.4	36.4	36.4	36.5	36.7
	中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
可搬	⑥本館南(μSv/h)	554	-	-	552	-	-	550	-	-	550	-	-	549	-	-	550	-	-	549	-	-	549	-	-
	⑦正門(μSv/h)	71	-	-	70	-	-	70	-	-	72	-	-	70	-	-	71	-	-	72	-	-	70	-	-
	③西門(μSv/h)	29	-	-	29	-	-	30	-	-	30	-	-	29	-	-	29	-	-	30	-	-	30	-	-
風向		北	西北西	西	西	北西	西	東南東	北	北北東	北	北北東	北	北西	西北西	西南西	西北西	西北西	西南西	西北西	西	西	西	南西	西北西
風速(m/s)		0.5	0.5	0.4	0.7	0.3	0.5	0.7	0.6	0.4	0.2	0.5	0.4	0.4	0.5	0.4	0.6	0.4	0.4	0.5	0.8	0.8	0.8	0.7	0.3

測定場所		③																							
時間		4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
MC	測定値(μSv/h)	36.8	36.7	36.7	36.4	36.4	36.5	36.4	36.3	36.3	36.3	36.3	36.3	36.3	36.2	36.3	36.2	36.1	36.0	36.2	37.6	37.8	38.3	38.0	37.2
	中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
可搬	⑥本館南(μSv/h)	553	-	-	552	-	-	551	-	-	552	-	-	550	-	-	549	-	-	552	-	-	549	-	-
	⑦正門(μSv/h)	68	-	-	70	-	-	69	-	-	67	-	-	69	-	-	71	-	-	70	-	-	70	-	-
	③西門(μSv/h)	30	-	-	30	-	-	30	-	-	30	-	-	30	-	-	30	-	-	30	-	-	31	-	-
風向		北北東	西北西	西	西北西	南西	西	西北西	西北西	南西	西	北西	北北西	北西	西北西	西	西	西	東	東	東	東	東	東	東北東
風速(m/s)		0.4	0.4	0.5	0.5	0.7	0.3	0.5	0.5	0.3	0.2	0.4	0.4	0.2	0.4	0.7	0.7	0.7	0.5	0.9	0.8	1.1	1.6	0.8	0.9

測定場所		③																							
時間		8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
MC	測定値(μSv/h)	36.6																							
	中性子	ND																							
可搬	⑥本館南(μSv/h)	545																							
	⑦正門(μSv/h)	72																							
	③西門(μSv/h)	30																							
風向		東																							
風速(m/s)		1.5																							

4月14日

福島第一(1F)

測定場所

- ①事務本館北(2号機より北西約0.5キ口) ②体育館付近(MP-5東側)(2号機より北西約0.9キ口)
 ③西門付近(MP-5付近)(2号機より西約1.1キ口) ④正門付近前(MP-6付近)(2号機より西南西約1.0キ口)
 ⑤免震棟前(2号機より北西約0.5キ口) ⑥事務本館南側 ⑦正門
 MC:モニタリングカー 可搬:可搬型MP

測定場所		③																							
時間		12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50
MC	測定値(μSv/h)	37.5	37.9	37.8	37.8	37.8	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.6	37.7	37.6	37.5	37.5	37.5	37.6	37.6	37.5	37.5	37.4
	中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
可搬	⑥本館南(μSv/h)	539	-	-	539	-	-	536	-	-	539	-	-	532	-	-	535	-	-	533	-	-	530	-	-
	⑦正門(μSv/h)	72	-	-	73	-	-	72	-	-	71	-	-	72	-	-	71	-	-	71	-	-	70	-	-
	③西門(μSv/h)	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-
風向		東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東	南東	南	南東	東南東
風速(m/s)		3.6	2.7	2.3	2.5	2.6	2.4	2.7	3.5	2.2	2.8	2.2	2.8	2.4	3.0	2.9	2.8	2.4	2.3	2.5	2.0	2.1	2.3	1.8	1.8

測定場所		③																							
時間		16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
MC	測定値(μSv/h)	37.5	37.5	37.4	37.4	37.4	37.4	37.4	37.4	37.3	37.3	37.3	37.1	37.2	37.2	37.0	37.0	37.0	37.2	36.9	36.9	36.9	36.8	36.9	36.9
	中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
可搬	⑥本館南(μSv/h)	535	-	-	534	-	-	536	-	-	540	-	-	536	-	-	537	-	-	538	-	-	540	-	-
	⑦正門(μSv/h)	71	-	-	72	-	-	71	-	-	74	-	-	73	-	-	74	-	-	71	-	-	69	-	-
	③西門(μSv/h)	28	-	-	29	-	-	28	-	-	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-
風向		南	南	東	東	北西	南南東	南	南西	南東	東北東	東南東	西南西	東北東	北北東	北北西	西	北西	西	西南西	西北西	北北東	北東	南東	南
風速(m/s)		2.0	1.6	1.4	1.5	1.1	1.0	0.9	0.5	0.5	0.8	0.9	0.3	0.3	0.3	0.3	0.3	0.4	0.2	0.5	0.5	0.3	0.3	0.3	0.5

測定場所		③																							
時間		20:00	20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50
MC	測定値(μSv/h)	36.8	36.7	36.8	36.8	36.7	36.7	36.7	36.7	36.7	36.8	36.7	36.6	36.6	36.6	36.6	36.7	36.6	36.7	36.5	36.6	36.6	36.5	36.5	36.5
	中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
可搬	⑥本館南(μSv/h)	543	-	-	545	-	-	546	-	-	549	-	-	546	-	-	544	-	-	549	-	-	547	-	-
	⑦正門(μSv/h)	71	-	-	71	-	-	68	-	-	70	-	-	70	-	-	69	-	-	70	-	-	69	-	-
	③西門(μSv/h)	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-	29	-	-
風向		北北東	北北西	南	西南西	北北西	西	西	北西	南東	西	北西	西北西	西	西	西	西	西	南	南東	南西	南西	北西	西北西	西
風速(m/s)		0.5	0.4	0.4	0.6	0.4	0.8	0.8	0.8	1.2	0.7	0.4	0.6	0.5	0.8	0.9	1.4	1.2	0.7	0.5	0.4	0.5	0.5	0.6	0.6

4月14日

福島第一(1F)

測定場所

- ①事務本館北(2号機より北西約0.5キ口) ②体育館付近(MP-5東側)(2号機より北西約0.9キ口)
 ③西門付近(MP-5付近)(2号機より西約1.1キ口) ④正門付近前(MP-6付近)(2号機より西南西約1.0キ口)
 ⑤免震棟前(2号機より北西約0.5キ口) ⑥事務本館南側 ⑦正門
 MC:モニタリングカー 可搬:可搬型MP

測定場所		③																							
時間		0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MC	測定値(μSv/h)	38.4	38.4	38.3	38.3	38.4	38.5	38.8	38.9	38.3	38.3	38.4	38.2	38.3	38.2	38.2	38.1	38.2	38.1	38.2	38.1	38.2	38.1	38.0	38.2
	中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
可搬	⑥本館南(μSv/h)	557	-	-	556	-	-	558	-	-	556	-	-	559	-	-	555	-	-	562	-	-	562	-	-
	⑦正門(μSv/h)	72	-	-	73	-	-	72	-	-	73	-	-	73	-	-	73	-	-	72	-	-	71	-	-
	③西門(μSv/h)	31	-	-	31	-	-	31	-	-	31	-	-	31	-	-	31	-	-	31	-	-	31	-	-
	風向	北	南南西	南	北北東	東	南西	北	南	南東	東北東	西	西北西	北	北	北	北	南西	西	西南西	北	北西	北	北	北西
	風速(m/s)	1.1	0.9	0.8	0.7	0.6	1.2	0.8	1.3	1.6	1.2	1.6	0.7	0.8	0.7	0.7	0.8	0.7	0.9	1.3	0.2	0.9	1.0	1.1	1.2

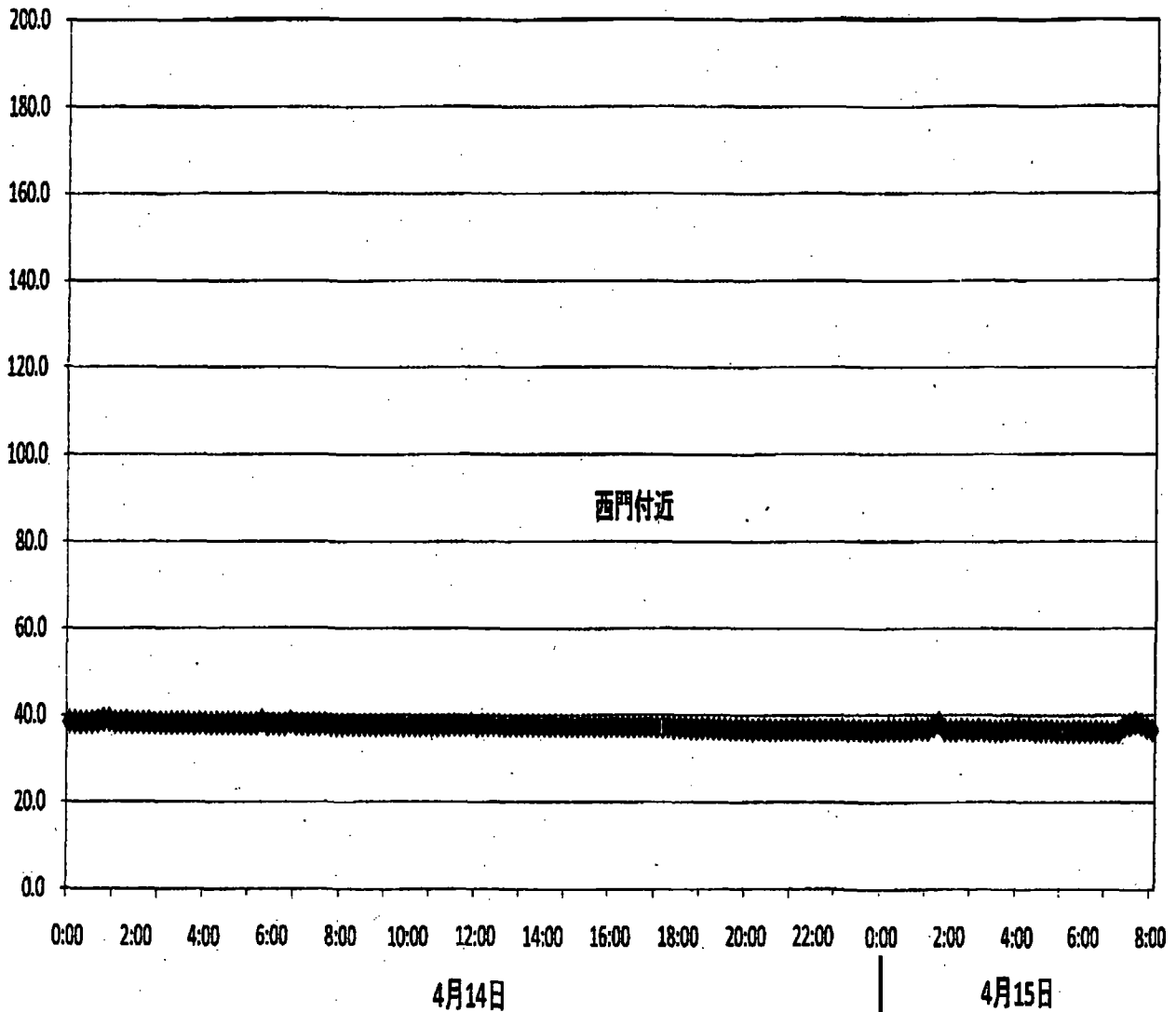
測定場所		③																							
時間		4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
MC	測定値(μSv/h)	38.1	38.1	38.2	38.1	38.2	38.1	38.1	38.0	38.0	38.6	37.9	38.0	37.9	37.9	38.4	37.9	37.8	37.8	37.9	37.8	37.9	37.8	37.9	37.8
	中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
可搬	⑥本館南(μSv/h)	561	-	-	562	-	-	560	-	-	560	-	-	556	-	-	556	-	-	555	-	-	558	-	-
	⑦正門(μSv/h)	72	-	-	73	-	-	72	-	-	72	-	-	72	-	-	72	-	-	72	-	-	72	-	-
	③西門(μSv/h)	31	-	-	31	-	-	31	-	-	31	-	-	31	-	-	31	-	-	31	-	-	31	-	-
	風向	北西	北西	西	西	西北西	西	西	西	北西	西	南南東	東南東	東南東	南東	東北東	東北東	東	東南東	南東	西南西	南	南南東	南南西	東南東
	風速(m/s)	1.2	1.9	2.9	2.9	2.8	2.0	1.4	0.7	0.6	0.8	0.6	1.1	1.9	1.5	0.8	0.8	1.2	1.3	1.0	0.6	0.7	0.8	0.6	1.0

測定場所		③																							
時間		8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
MC	測定値(μSv/h)	37.8	37.8	37.8	37.7	37.8	37.8	37.7	37.8	37.8	37.8	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.6	37.7	37.7	37.7	37.7	37.6	38.1
	中性子	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
可搬	⑥本館南(μSv/h)	555	-	-	552	-	-	548	-	-	548	-	-	543	-	-	546	-	-	543	-	-	541	-	-
	⑦正門(μSv/h)	73	-	-	72	-	-	71	-	-	71	-	-	71	-	-	71	-	-	71	-	-	73	-	-
	③西門(μSv/h)	31	-	-	30	-	-	30	-	-	30	-	-	30	-	-	30	-	-	30	-	-	29	-	-
	風向	東南東	東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東南東	東	東	東	東南東	東南東	東	東南東	東南東	東北東	北東	東
	風速(m/s)	1.3	1.9	1.8	2.1	1.4	1.4	1.9	1.9	1.7	1.3	0.9	1.0	1.3	1.5	1.8	1.6	1.6	2.1	1.9	1.6	1.7	1.7	1.6	3.6

福島第一原子力発電所敷地内の線量率

(モニタリングカーによる測定値)

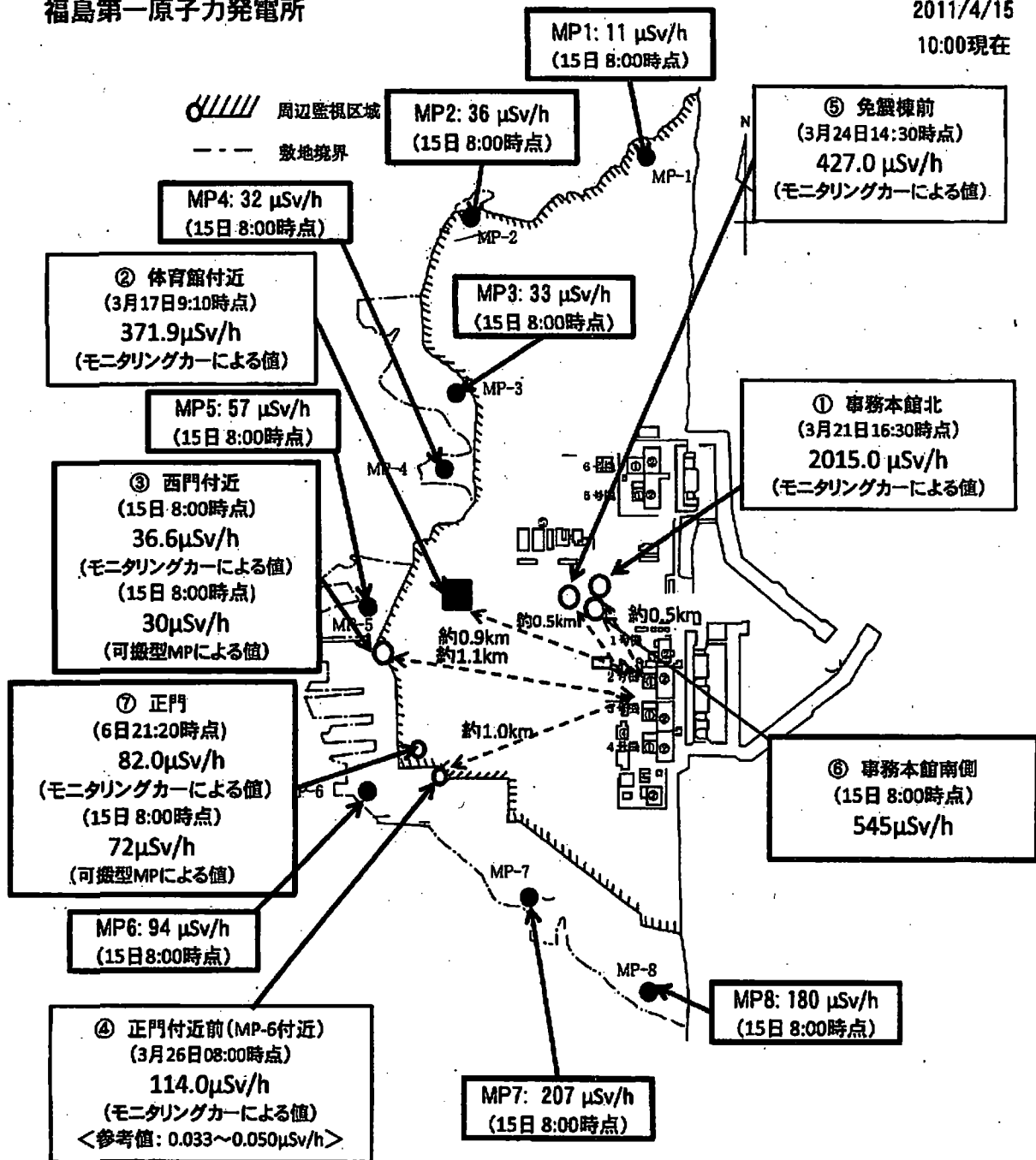
$\mu\text{Sv/h}$



福島第一原子力発電所

2011/4/15

10:00現在



福島第一原子力発電所 モニタリングポスト空間線量率($\mu\text{Sv/h}$)

測定日時	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8
2011/4/15 5:00	12	36	33	32	57	93	207	180
2011/4/15 5:10	11	36	33	32	56	93	207	181
2011/4/15 5:20	11	36	33	32	56	93	207	180
2011/4/15 5:30	11	36	33	32	56	93	207	180
2011/4/15 5:40	11	36	33	32	56	93	207	180
2011/4/15 5:50	11	36	33	32	56	93	207	180
2011/4/15 6:00	11	36	33	32	56	93	207	180
2011/4/15 6:10	11	36	33	32	56	93	207	181
2011/4/15 6:20	11	36	33	32	56	93	207	183
2011/4/15 6:30	11	36	33	32	56	93	207	183
2011/4/15 6:40	11	36	33	32	56	92	207	181
2011/4/15 6:50	11	36	33	32	56	92	206	181
2011/4/15 7:00	11	36	33	32	56	92	207	181
2011/4/15 7:10	11	36	33	32	56	93	207	181
2011/4/15 7:20	11	36	33	32	57	93	207	180
2011/4/15 7:30	11	36	33	32	58	93	206	180
2011/4/15 7:40	11	36	33	32	58	93	206	180
2011/4/15 7:50	11	36	33	32	57	93	206	180
2011/4/15 8:00	11	36	33	32	57	94	207	180

島第二(2F) (事業者のモニタリングポスト)

4月15日																									
モニタリングポスト	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:5	
MP1(μSv/h)	2.921	2.920	2.923	2.961	2.912	2.911	2.913	2.291	2.900	2.916	2.909	2.907	2.916	2.905	2.918	2.909	2.922	2.912	2.918	2.914	2.912	2.935	2.928	2.904	
MP2(μSv/h)	2.186	2.187	2.182	2.182	2.180	2.178	2.186	2.195	2.174	2.185	2.176	2.189	2.187	2.180	2.177	2.113	2.169	2.167	2.184	2.173	2.157	2.196	2.181	2.185	
MP3(μSv/h)	3.132	3.132	3.120	3.118	3.111	3.106	3.113	3.125	3.118	3.115	3.123	3.110	3.109	3.102	3.127	3.101	3.121	3.114	3.127	3.126	3.123	3.130	3.124	3.121	
MP4(μSv/h)	2.458	2.458	2.464	2.458	2.462	2.461	2.446	2.452	2.459	2.461	2.468	2.452	2.454	2.467	2.452	2.448	2.453	2.451	2.460	2.457	2.464	2.466	2.467	2.460	
MP5(μSv/h)	2.462	2.490	2.485	2.462	2.465	2.466	2.476	2.460	2.477	2.463	2.489	2.467	2.467	2.479	2.463	2.460	2.463	2.458	2.472	2.477	2.487	2.482	2.479	2.480	
MP6(μSv/h)	2.446	2.451	2.457	2.465	2.452	2.453	2.450	2.454	2.433	2.446	2.450	2.443	2.437	2.455	2.444	2.453	2.446	2.444	2.450	2.448	2.458	2.452	2.461	2.452	
MP7(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
風向	西	西	西南西	西	南南西	南南東	南南東	南南東	南南東	南東	南南東	南西	西南西	西南西	南西	南西	南西	南西	南南西	南西	北西	東	南	南西	南西
風速(m/s)	1.5	2.6	1.4	0.2	0.4	0.8	0.9	1.0	0.7	1.3	1.9	2.0	1.7	3.5	2.4	3.0	4.0	3.0	0.6	0.5	0.0	0.4	0.2	0.1	

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4月15日																									
モニタリングポスト	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:5	
MP1(μSv/h)	2.907	2.915	2.907	2.912	2.905	2.918	2.921	2.902	2.897	2.905	2.901	2.907	2.896	2.906	2.902	2.904	2.902	2.904	2.982	2.955	2.949	2.946	2.949	2.922	
MP2(μSv/h)	2.186	2.173	2.168	2.186	2.181	2.170	2.183	2.165	2.171	2.167	2.163	2.171	2.176	2.172	2.175	2.183	2.165	2.176	2.237	2.265	2.240	2.228	2.234	2.216	
MP3(μSv/h)	3.115	3.128	3.110	3.113	3.107	3.093	3.118	3.103	3.106	3.106	3.108	3.122	3.095	3.104	3.103	3.102	3.099	3.110	3.093	3.144	3.150	3.149	3.143	3.131	
MP4(μSv/h)	2.451	2.457	2.448	2.442	2.459	2.447	2.447	2.444	2.446	2.446	2.454	2.462	2.454	2.440	2.433	2.450	2.446	2.465	2.461	2.454	2.462	2.470	2.465	2.462	
MP5(μSv/h)	2.475	2.463	2.465	2.475	2.478	2.479	2.470	2.468	2.451	2.471	2.462	2.456	2.467	2.463	2.467	2.480	2.458	2.468	2.455	2.461	2.467	2.496	2.489	2.477	
MP6(μSv/h)	2.443	2.447	2.462	2.443	2.443	2.444	2.446	2.441	2.438	2.436	2.430	2.439	2.435	2.441	2.439	2.437	2.439	2.431	2.439	2.436	2.448	2.464	2.469	2.477	
MP7(μSv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
風向	西	南西	南南西	南	南	南	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南西	南西	南西	南東	南	南西	南西	南西	南南西	南南西
風速(m/s)	1.2	1.5	1.6	3.0	3.5	4.3	3.8	3.0	4.2	4.7	5.5	5.5	5.4	5.0	3.9	1.7	0.1	0.6	1.2	0.7	1.7	1.9	1.2	0.2	

4月15日																								
Eニタリングポスト	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:5
MP1(μSv/h)	2.930																							
MP2(μSv/h)	2.208																							
MP3(μSv/h)	3.143																							
MP4(μSv/h)	2.461																							
MP5(μSv/h)	2.484																							
MP6(μSv/h)	2.475																							
MP7(μSv/h)	欠測																							
風向	南南西																							
風速(m/s)	1.5																							

福島第二(2F)(事業者のモニタリングポスト)

4月14日		12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50	
モニタリングポスト																										
MP1(μ Sv/h)		3.004	2.997	3.009	2.996	3.006	3.008	2.993	3.008	3.005	2.988	2.999	2.999	2.988	2.985	2.975	2.974	2.973	2.956	2.981	2.976	2.965	2.947	2.950	2.944	
MP2(μ Sv/h)		2.231	2.250	2.237	2.232	2.232	2.230	2.226	2.237	2.235	2.217	2.226	2.232	2.222	2.216	2.221	2.241	2.225	2.219	2.221	2.224	2.222	2.230	2.221	2.201	
MP3(μ Sv/h)		3.188	3.175	3.179	3.176	3.181	3.162	3.171	3.190	3.177	3.201	3.196	3.199	3.188	3.127	3.202	3.200	3.201	3.196	3.177	3.177	3.157	3.171	3.168	3.171	
MP4(μ Sv/h)		2.556	2.570	2.559	2.555	2.551	2.571	2.557	2.557	2.571	2.555	2.545	2.553	2.554	2.553	2.539	2.557	2.532	2.515	2.530	2.502	2.525	2.522	2.515	2.511	
MP5(μ Sv/h)		2.549	2.532	2.544	2.528	2.535	2.532	2.526	2.525	2.507	2.537	2.516	2.520	2.516	2.526	2.526	2.510	2.522	2.496	2.500	2.496	2.507	2.501	2.503	2.501	
MP6(μ Sv/h)		2.540	2.514	2.522	2.534	2.516	2.524	2.520	2.518	2.510	2.513	2.523	2.532	2.528	2.518	2.517	2.484	2.509	2.512	2.494	2.504	2.499	2.497	2.498	2.491	
MP7(μ Sv/h)		欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
風向		南	南	南	南南西	南	南	南	南	南	南	南	南	南	南	南	南南東	南	南	南	南	南南東	南	南	南	
風速(m/s)		13.1	13.2	12.5	12.4	11.6	11.3	14.9	13.6	15.7	15.2	13.6	12.1	12.3	12.4	11.3	12.3	14.3	13.8	14.5	15.3	12.7	15.3	14.6	12.4	

4月14日		16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50	
モニタリングポスト																										
MP1(μ Sv/h)		2.942	2.946	2.932	2.943	2.963	2.938	2.928	2.936	2.920	2.930	2.940	2.943	2.924	2.924	2.929	2.929	2.922	2.925	2.927	2.938	2.943	2.926	2.938	2.931	
MP2(μ Sv/h)		2.208	2.219	2.204	2.220	2.213	2.212	2.197	2.198	2.196	2.198	2.194	2.199	2.197	2.192	2.204	2.178	2.188	2.194	2.194	2.195	2.186	2.204	2.180	2.194	
MP3(μ Sv/h)		3.165	3.165	3.153	3.170	3.150	3.173	3.153	3.145	3.141	3.145	3.151	3.133	3.148	3.143	3.147	3.150	3.135	3.143	3.143	3.130	3.141	3.121	3.138	3.121	
MP4(μ Sv/h)		2.505	2.489	2.494	2.480	2.477	2.481	2.467	2.477	2.500	2.492	2.478	2.485	2.466	2.474	2.465	2.471	2.472	2.471	2.476	2.473	2.473	2.475	2.471	2.461	
MP5(μ Sv/h)		2.492	2.513	2.503	2.488	2.490	2.488	2.487	2.491	2.482	2.486	2.476	2.494	2.475	2.482	2.479	2.483	2.455	2.480	2.466	2.475	2.468	2.467	2.471	2.481	
MP6(μ Sv/h)		2.503	2.493	2.488	2.504	2.497	2.488	2.478	2.482	2.483	2.488	2.479	2.466	2.478	2.463	2.462	2.462	2.460	2.453	2.455	2.463	2.447	2.457	2.461	2.461	
MP7(μ Sv/h)		欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
風向		南	南	南	南	南	南	南	南	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	南南西	
風速(m/s)		11.9	12.1	12.2	11.9	10.2	11.0	10.3	9.4	9.7	8.0	7.8	6.0	5.1	4.4	3.2	1.8	2.8	3.5	2.4	2.5	3.1	1.7	2.2	2.4	

4月14日		20:00	20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50	
モニタリングポスト																										
MP1(μ Sv/h)		2.953	2.942	2.939	2.923	2.925	2.935	2.933	2.925	2.926	2.923	2.917	2.931	2.928	2.295	2.915	2.921	2.929	2.922	2.916	2.927	2.917	2.924	2.921	2.921	
MP2(μ Sv/h)		2.189	2.183	2.194	2.189	2.190	2.184	2.189	2.192	2.196	2.188	2.182	2.183	2.181	2.177	2.184	2.189	2.174	2.182	2.186	2.178	2.182	2.192	2.179	2.181	
MP3(μ Sv/h)		3.130	3.139	3.146	3.126	3.132	3.139	3.127	3.133	3.122	3.133	3.126	3.141	3.121	3.121	3.129	3.114	3.123	3.135	3.117	3.133	3.121	3.122	3.139	3.111	
MP4(μ Sv/h)		2.460	2.464	2.457	2.465	2.467	2.467	2.461	2.455	2.467	2.463	2.471	2.457	2.463	2.461	2.461	2.450	2.467	2.463	2.461	2.460	2.465	2.456	2.462	2.455	
MP5(μ Sv/h)		2.470	2.465	2.478	2.470	2.472	2.473	2.470	2.488	2.472	2.463	2.475	2.487	2.472	2.486	2.470	2.465	2.471	2.454	2.486	2.477	2.484	2.462	2.466	2.471	
MP6(μ Sv/h)		2.462	2.457	2.461	2.450	2.454	2.456	2.459	2.456	2.456	2.461	2.461	2.453	2.449	2.457	2.458	2.449	2.443	2.457	2.465	2.451	2.462	2.469	2.464	2.451	
MP7(μ Sv/h)		欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	
風向		南西	北西	北西	北西	西北西	西	西南西	西南西	西南西	西	西	西	西南西	西	西	西南西	西	西南西	南西	南西	南西	西南西	西北西	北西	
風速(m/s)		1.5	0.5	0.8	1.0	1.2	2.9	4.1	4.3	4.8	4.5	3.7	3.2	4.3	3.8	3.3	2.7	2.4	3.8	4.7	4.5	4.6	5.2	1.7	2.1	

羽島第二(2F) (事業者のモニタリングポスト)

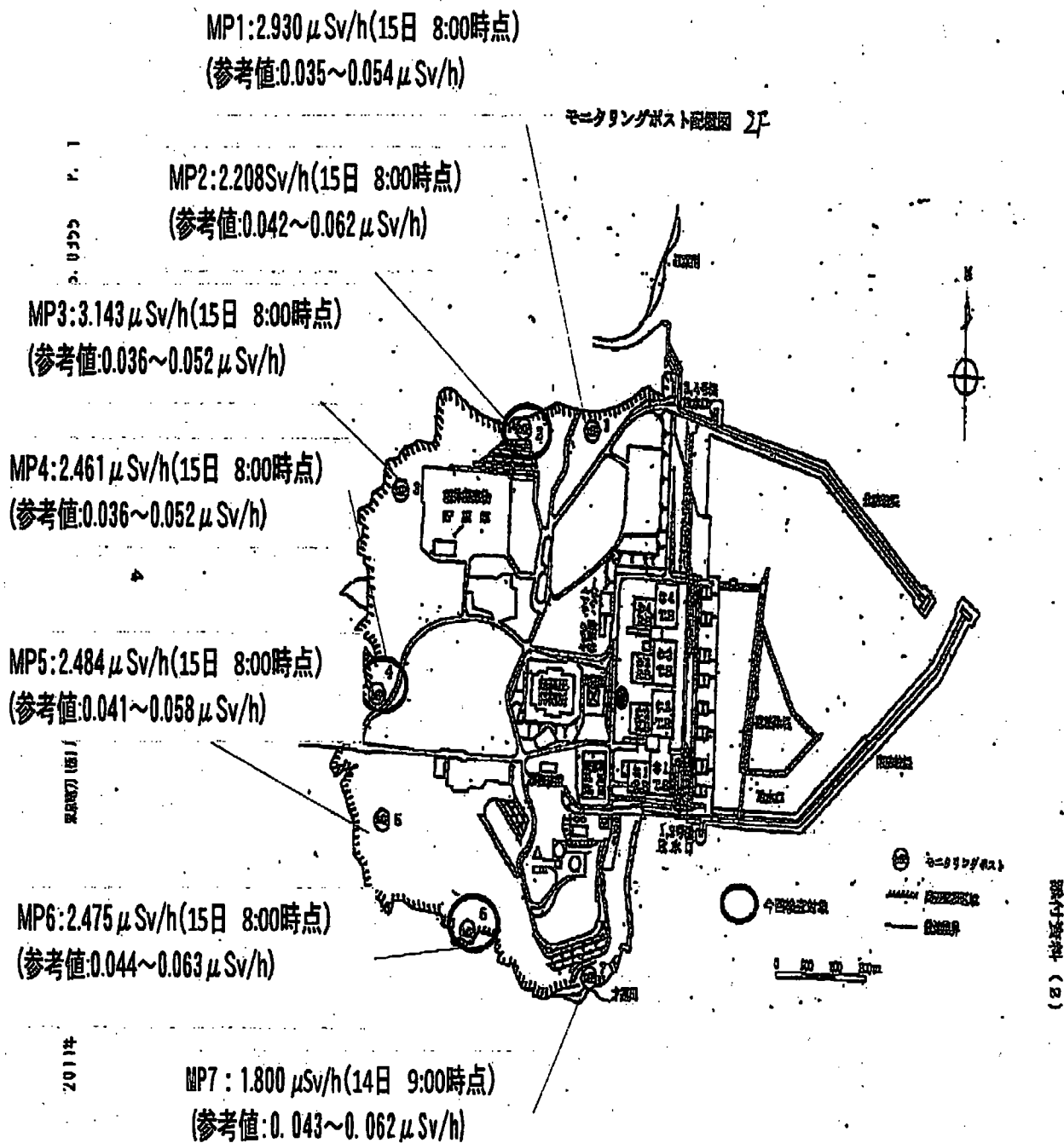
4月14日																								
モニタリングポスト	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MP1(μ Sv/h)	3.017	3.020	3.018	3.023	3.003	3.020	3.014	3.014	3.002	3.018	3.010	3.005	3.008	2.994	3.008	3.000	3.017	3.011	2.998	3.005	3.005	2.992	2.998	2.992
MP2(μ Sv/h)	2.242	2.243	2.253	2.242	2.244	2.246	2.241	2.237	2.239	2.245	2.238	2.248	2.239	2.246	2.229	2.238	2.229	2.243	2.239	2.234	2.232	2.235	2.240	2.232
MP3(μ Sv/h)	3.228	3.219	3.224	3.215	3.206	3.222	3.224	3.219	3.209	3.218	3.222	3.212	3.229	3.209	3.223	3.205	3.216	3.210	3.202	3.205	3.211	3.215	3.217	3.195
MP4(μ Sv/h)	2.552	2.549	2.529	2.532	2.535	2.536	2.528	2.525	2.535	2.538	2.521	2.533	2.530	2.526	2.531	2.529	2.522	2.518	2.532	2.528	2.529	2.525	2.529	2.527
MP5(μ Sv/h)	2.529	2.532	2.542	2.534	2.540	2.538	2.541	2.527	2.529	2.533	2.536	2.534	2.530	2.526	2.523	2.534	2.530	2.520	2.529	2.533	2.529	2.524	2.531	2.521
MP6(μ Sv/h)	2.508	2.515	2.511	2.513	2.514	2.520	2.514	2.520	2.508	2.525	2.517	2.512	2.508	2.508	2.499	2.511	2.501	2.525	2.520	2.507	2.518	2.506	2.503	2.497
MP7(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	西	西	西	西	西	西	西	西	北西	北北西	北北東	北	北	北	北	北北東	北	北北東	南	西	西	北北東	北北西	北北東
風速(m/s)	3.7	7.7	9.7	10.9	12.5	9.6	8.9	8.8	4.9	3.0	5.0	4.5	3.8	4.0	2.6	2.1	3.5	0.5	0.8	2.4	2.2	0.4	0.8	2.3

4月14日																								
モニタリングポスト	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
MP1(μ Sv/h)	2.993	3.002	2.986	2.999	3.005	3.000	2.984	2.996	2.993	3.003	2.994	3.001	3.000	2.986	2.989	2.979	2.991	2.994	3.000	2.996	2.995	2.979	2.998	2.992
MP2(μ Sv/h)	2.222	2.240	2.226	2.238	2.238	2.244	2.234	2.228	2.230	2.226	2.240	2.229	2.233	2.233	2.225	2.225	2.222	2.223	2.226	2.229	2.241	2.225	2.230	2.229
MP3(μ Sv/h)	3.214	3.203	3.201	3.207	3.199	3.191	3.202	3.210	3.200	3.187	3.184	3.192	3.189	3.193	3.191	3.188	3.203	3.207	3.181	3.184	3.182	3.186	3.191	3.192
MP4(μ Sv/h)	2.519	2.520	2.536	2.520	2.523	2.534	2.519	2.524	2.528	2.514	2.507	2.515	2.520	2.511	2.532	2.529	2.531	2.527	2.521	2.520	2.520	2.527	2.519	2.511
MP5(μ Sv/h)	2.525	2.533	2.532	2.532	2.525	2.535	2.549	2.521	2.523	2.519	2.536	2.534	2.518	2.524	2.522	2.514	2.520	2.523	2.502	2.520	2.533	2.516	2.531	2.529
MP6(μ Sv/h)	2.508	2.507	2.516	2.510	2.502	2.514	2.494	2.497	2.507	2.510	2.500	2.514	2.504	2.517	2.509	2.491	2.505	2.505	2.506	2.506	2.495	2.500	2.504	2.501
MP7(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	東南東	南東	南南東	南南東	南南東	南	南南東	南南東	南南東	南南東	南	南南東	南南東	南	南	南	南	南	南	南	南	南	南	南
風速(m/s)	2.7	1.6	2.7	4.8	4.2	4.4	4.7	6.2	6.3	6.5	7.1	5.3	3.8	4.4	6.0	5.2	4.9	6.2	6.4	5.3	6.2	3.0	4.5	3.3

4月14日																								
モニタリングポスト	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
MP1(μ Sv/h)	2.979	2.988	2.988	2.989	2.973	2.997	2.982	2.989	2.974	2.998	2.985	2.988	3.001	2.993	2.976	2.998	2.985	2.979	3.005	2.997	2.983	3.010	2.996	3.014
MP2(μ Sv/h)	2.242	2.229	2.230	2.242	2.240	2.230	2.235	2.237	2.232	2.238	2.238	2.240	2.241	2.240	2.232	2.241	2.240	2.251	2.248	2.243	2.266	2.247	2.246	2.229
MP3(μ Sv/h)	3.198	3.181	3.184	3.193	3.199	3.192	3.186	3.188	3.174	3.187	3.177	3.207	3.185	3.185	3.175	3.186	3.190	3.171	3.182	3.188	3.181	3.187	3.167	3.183
MP4(μ Sv/h)	2.513	2.525	2.511	2.518	2.527	2.532	2.524	2.523	2.532	2.526	2.552	2.541	2.547	2.555	2.542	2.551	2.562	2.554	2.571	2.582	2.574	2.559	2.549	2.556
MP5(μ Sv/h)	2.531	2.523	2.526	2.527	2.518	2.521	2.525	2.527	2.530	2.522	2.540	2.542	2.535	2.526	2.540	2.536	2.542	2.528	2.540	2.543	2.550	2.548	2.538	2.549
MP6(μ Sv/h)	2.501	2.511	2.501	2.497	2.515	2.510	2.489	2.508	2.512	2.503	2.514	2.502	2.506	2.504	2.502	2.504	2.496	2.514	2.522	2.516	2.511	2.510	2.509	2.507
MP7(μ Sv/h)	欠測	欠測	欠測	欠測	欠測	欠測	1.800	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測	欠測
風向	南	南	南	南	南	南南西	南	南	南	南	南	南	南	南	南	南	南	南	南	南	南	南	南	南
風速(m/s)	4.3	5.1	6.0	6.8	5.4	5.8	5.5	6.4	5.6	6.1	6.7	9.1	8.7	10.4	10.6	10.6	11.0	10.7	9.7	10.4	8.9	12.7	14.1	13.0

福島第二原子力発電所

2011/4/15
10:00現在



各発電所等の環境モニタリング結果

単位: $\mu\text{Sv/h}$

通常の平常値の範囲	会社名	発電所名	4月14日												
			0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	
0.023~0.027	北海道電力	泊瀬発電所	0.033	0.033	0.032	0.032	0.032	0.032	0.033	0.032	0.032	0.032	0.032	0.032	0.032
0.024~0.060	東北電力	女川原子力発電所	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	
0.012~0.060		東通原子力発電所	0.017	0.018	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.017	0.017	
0.033~0.050	東京電力	福島第一原子力発電所 ^{※1}	38.4	38.8	38.3	38.2	38.1	38.1	38.0	37.8	37.8	37.7	37.7	37.7	
0.038~0.052		福島第二原子力発電所	3.228	3.224	3.229	3.202	3.214	3.202	3.169	3.181	3.198	3.166	3.185	3.182	
0.011~0.159		柏崎刈羽原子力発電所	0.085	0.086	0.088	0.087	0.085	0.087	0.086	0.086	0.086	0.086	0.086	0.085	
0.038~0.053	日本原子力発電	東通第二発電所	0.383	0.383	0.382	0.383	0.383	0.382	0.382	0.383	0.383	0.384	0.388	0.385	
0.039~0.110		美浜発電所	0.076	0.075	0.075	0.074	0.074	0.076	0.077	0.074	0.073	0.075	0.075	0.075	
0.064~0.108	中部電力	浜岡原子力発電所	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.045	0.045	0.044	
0.0207~0.132	北陸電力	志賀原子力発電所	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.032	0.033	0.032	0.034	0.034	
0.028~0.130	中国電力	島根原子力発電所	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.031	0.030	0.030	
0.070~0.077		美浜発電所	0.074	0.074	0.075	0.074	0.075	0.073	0.075	0.076	0.076	0.076	0.073	0.073	
0.045~0.047	関西電力	高浜発電所	0.043	0.042	0.042	0.043	0.043	0.042	0.043	0.043	0.043	0.044	0.043	0.044	
0.038~0.040		大飯発電所	0.038	0.037	0.038	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.035	0.035	
0.011~0.080	四国電力	伊方発電所	0.014	0.014	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.014	0.013	0.014	
0.023~0.087	九州電力	玄海原子力発電所	0.028	0.027	0.028	0.028	0.028	0.027	0.028	0.028	0.027	0.026	0.028	0.028	
0.034~0.120		川内原子力発電所	0.037	0.040	0.037	0.040	0.040	0.040	0.040	0.038	0.040	0.038	0.038	0.038	
0.009~0.069	日本原電(株)	六ヶ所 再処埋事業所	0.018	0.017	0.017	0.017	0.017	0.018	0.017	0.018	0.017	0.018	0.017	0.017	
0.009~0.071		六ヶ所 埋没事業所	0.023	0.023	0.023	0.023	0.023	0.022	0.023	0.023	0.023	0.023	0.022	0.023	

※福島第一原子力発電所については、作業状況により若干測定時間のずれ及び測定位置の変更が生じることもございます。

通常の平常値の範囲	会社名	発電所名	4月14日											
			12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
0.023~0.027	北海道電力	泊瀬発電所	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.032	0.033	0.033	0.033	
0.024~0.060	東北電力	女川原子力発電所	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	
0.012~0.060		東通原子力発電所	0.018	0.018	0.017	0.018	0.017	0.018	0.017	0.017	0.017	0.017	0.017	
0.033~0.050	東京電力	福島第一原子力発電所 ^{※1}	37.5	37.7	37.7	37.5	37.5	37.4	37.2	36.9	36.8	36.7		
0.038~0.052		福島第二原子力発電所	3.188	3.171	3.188	3.177	3.165	3.153	3.148	3.143	3.130	3.127		
0.011~0.159		柏崎刈羽原子力発電所	0.085	0.086	0.086	0.086	0.085	0.086	0.086	0.086	0.086	0.087		
0.038~0.053	日本原子力発電	東通第二発電所	0.384	0.387	0.388	0.382	0.382	0.381	0.380	0.378	0.380	0.376		
0.039~0.110		美浜発電所	0.074	0.073	0.074	0.074	0.075	0.075	0.076	0.076	0.077	0.074		
0.064~0.108	中部電力	浜岡原子力発電所	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.043	0.044		
0.0207~0.132	北陸電力	志賀原子力発電所	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.033	0.033	0.033		
0.028~0.130	中国電力	島根原子力発電所	0.029	0.031	0.030	0.029	0.029	0.029	0.030	0.030	0.030	0.030		
0.070~0.077		美浜発電所	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.073	0.075	0.073		
0.045~0.047	関西電力	高浜発電所	0.043	0.044	0.043	0.043	0.042	0.042	0.043	0.042	0.043	0.043		
0.038~0.040		大飯発電所	0.035	0.035	0.035	0.035	0.034	0.035	0.035	0.035	0.035	0.036		
0.011~0.080	四国電力	伊方発電所	0.013	0.014	0.013	0.014	0.014	0.013	0.014	0.013	0.013	0.013		
0.023~0.087	九州電力	玄海原子力発電所	0.028	0.028	0.025	0.028	0.028	0.025	0.028	0.025	0.028	0.028		
0.034~0.120		川内原子力発電所	0.037	0.037	0.040	0.038	0.037	0.037	0.037	0.039	0.037	0.035		
0.009~0.069	日本原電(株)	六ヶ所 再処埋事業所	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.017		
0.009~0.071		六ヶ所 埋没事業所	0.022	0.022	0.023	0.023	0.023	0.023	0.022	0.022	0.022	0.023		

※1 福島第一原子力発電所については、作業状況により若干測定時間のずれ及び測定位置の変更が生じることもございます。

※2 中部電力(株)からの4月1日12時データより、宇宙線等与分を加算しない値で報告を受けています。

4/14 21時時点

採取場所: 1F南放水口付近(1~4号放水口から南側約330m地点)

採取方法: 海水を汲みあげ採取

測定方法: 試料500mlを福島第二に運搬し、Ge半導体検出器で測定

測定時間: 1,000秒

核種	4月8日 8:55		4月8日 13:55		4月9日 8:20		4月9日 13:30		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	1F南放水口付近(1~4号放水口から南側約330m地点)		1F南放水口付近(1~4号放水口から南側約330m地点)		1F南放水口付近(1~4号放水口から南側約330m地点)		1F南放水口付近(1~4号放水口から南側約330m地点)		
	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	
I-131	1.9E+01	480	1.9E+00	48	6.1E+00	150	7.0E+00	180	4.0E-02
Cs-134	1.2E+01	200	1.9E+00	32	4.3E+00	72	4.9E+00	82	6.0E-02
Cs-137	1.2E+01	130	1.9E+00	21	4.4E+00	49	5.0E+00	56	9.0E-02

核種	4月10日 8:25		4月10日 13:15		4月11日 8:30		4月11日 14:00		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	1F南放水口付近(1~4号放水口から南側約330m地点)		1F南放水口付近(1~4号放水口から南側約330m地点)		1F南放水口付近(1~4号放水口から南側約330m地点)		1F南放水口付近(1~4号放水口から南側約330m地点)		
	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	
I-131	2.2E+00	55	4.5E+00	110	9.7E-01	24	9.5E-01	24	4.0E-02
Cs-134	1.9E+00	32	3.6E+00	60	1.1E+00	18	1.3E+00	22	6.0E-02
Cs-137	2.0E+00	22	3.7E+00	41	1.1E+00	12	1.3E+00	14	9.0E-02

採取場所: 1F南放水口付近(1~4u放水口から南側約330m地点)

採取方法: 海水を汲みあげ採取

測定方法: 試料500mlを福島第二に運搬し、Ge半導体検出器で測定

測定時間: 1,000秒

核種	4月12日 8:30		4月12日 14:00		4月13日 8:30		4月13日 14:00		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	1F南放水口付近(1~4u放水口から南側約330m地点)		1F南放水口付近(1~4u放水口から南側約330m地点)		1F南放水口付近(1~4u放水口から南側約330m地点)		1F南放水口付近(1~4u放水口から南側約330m地点)		
	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	
I-131	1.7E+00	43	1.3E+00	33	9.8E-01	25	9.7E-01	24	4.0E-02
Cs-134	1.8E+00	30	1.4E+00	23	1.3E+00	22	1.4E+00	23	6.0E-02
Cs-137	1.8E+00	20	1.4E+00	16	1.3E+00	14	1.4E+00	16	9.0E-02

核種									③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
I-131									4.0E-02
Cs-134									6.0E-02
Cs-137									9.0E-02

採取場所: 1F 5~6放水口北側(5~6u放水口から北側約30m地点)

採取方法: 海水を汲みあげ採取

測定方法: 試料500mlを福島第二に運搬し、Ge半導体検出器で測定

測定時間: 1,000秒

核種	4月8日 9:15		4月8日 14:25		4月9日 8:40		4月9日 13:50		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	1F 5~6放水口北側(5~6放水口から北側約30m地点)		1F 5~6放水口北側(5~6放水口から北側約30m地点)		1F 5~6放水口北側(5~6放水口から北側約30m地点)		1F 5~6放水口北側(5~6放水口から北側約30m地点)		
	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	
I-131	5.0E+01	1300	4.6E+01	1200	1.3E+01	330	7.0E+00	180	4.0E-02
Cs-134	3.4E+01	570	2.9E+01	480	9.8E+00	160	5.4E+00	90	6.0E-02
Cs-137	3.4E+01	380	2.9E+01	320	9.8E+00	110	5.4E+00	60	9.0E-02

核種	4月10日 8:45		4月10日 13:30		4月11日 8:40		4月11日 14:20		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	1F 5~6放水口北側(5~6放水口から北側約30m地点)		1F 5~6放水口北側(5~6放水口から北側約30m地点)		1F 5~6放水口北側(5~6放水口から北側約30m地点)		1F 5~6放水口北側(5~6放水口から北側約30m地点)		
	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	
I-131	6.8E+00	170	1.1E+01	280	4.7E+00	120	6.9E+00	173	4.0E-02
Cs-134	5.3E+00	88	8.7E+00	150	2.5E+00	42	6.1E+00	102	6.0E-02
Cs-137	5.3E+00	59	8.8E+00	98	2.6E+00	29	6.2E+00	69	9.0E-02

採取場所: 1F 5~6放水口北側(5~6u放水口から北側約30m地点)

採取方法: 海水を汲みあげ採取

測定方法: 試料500mlを福島第二に運搬し、Ge半導体検出器で測定

測定時間: 1,000秒

核種	4月12日 8:40		4月12日 14:10		4月13日 8:45		4月13日 14:15		③周辺監視区域外の水中の濃度限度(Bq/cm ³)
	1F 5~6放水口北側(5~6u放水口から北側約30m地点)		1F 5~6放水口北側(5~6u放水口から北側約30m地点)		1F 5~6放水口北側(5~6u放水口から北側約30m地点)		1F 5~6放水口北側(5~6u放水口から北側約30m地点)		
	①放射能濃度(Bq/cm ³)	水中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	水中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	水中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	水中濃度限度に対する割合(①/③)	
I-131	7.2E-01	18	1.7E+00	43	1.7E+00	43	1.6E+00	40	4.0E-02
Cs-134	9.0E-01	15	1.7E+00	28	1.9E+00	32	1.6E+00	27	6.0E-02
Cs-137	8.6E-01	10	1.8E+00	20	1.9E+00	21	1.7E+00	19	8.0E-02

核種									③周辺監視区域外の水中の濃度限度(Bq/cm ³)
	①放射能濃度(Bq/cm ³)	水中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	水中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	水中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	水中濃度限度に対する割合(①/③)	
I-131									4.0E-02
Cs-134									6.0E-02
Cs-137									8.0E-02

採取場所: 2F北放水口付近(3、4号放水口付近)(1Fから約10km)

採取方法: 海水をくみ上げ採取

測定方法: 試料500mlをGe半導体検出器で測定

測定時間: 1,000秒

検出核種 (半減期)	4月8日 9:05		4月9日 8:30		4月10日 8:25		4月11日 8:30		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	2F 北放水口付近(3,4号放水口付近)(1Fから約10km)		2F 北放水口付近(3,4号放水口付近)(1Fから約10km)		2F 北放水口付近(3,4号放水口付近)(1Fから約10km)		2F 北放水口付近(3,4号放水口付近)(1Fから約10km)		
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	
I-131	1.4E+00	35	1.0E+00	25	1.2E+00	30	1.3E+00	33	4.0E-02
Cs-134	9.0E-01	15	7.1E-01	12	9.4E-01	16	1.1E+00	18	6.0E-02
Cs-137	8.8E-01	9.8	7.1E-01	7.9	9.6E-01	11	1.1E+00	12	9.0E-02

検出核種 (半減期)	4月12日 8:30		4月13日 8:35						③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	2F 北放水口付近(3,4号放水口付近)(1Fから約10km)		2F 北放水口付近(3,4号放水口付近)(1Fから約10km)						
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)					
I-131	1.1E+00	28.0	1.0E+00	25					4.0E-02
Cs-134	1.0E+00	17.0	1.0E+00	17					6.0E-02
Cs-137	1.0E+00	11.0	1.0E+00	11					9.0E-02

※ 0.0E-0とは、0.0×10-0と同じ意味である。

採取場所: 2F岩沢海岸付近(1,2号放水口から南側に約7,000m地点)

採取方法: 海水をくみ上げ採取

測定方法: 試料500mlをGe半導体検出器で測定

測定時間: 1,000秒

検出核種 (半減期)	4月8日 8:10 2F岩沢海岸付近(1,2号放水口から南側に約7,000m地点)		4月9日 8:00 2F岩沢海岸付近(1,2号放水口から南側に約7,000m地点)		4月10日 7:55 2F岩沢海岸付近(1,2号放水口から南側に約7,000m地点)		4月11日 8:00 2F岩沢海岸付近(1,2号放水口から南側に約7,000m地点)		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	
I-131	1.2E+00	30	9.8E-01	25	8.4E-01	21	1.4E+00	35	4.0E-02
Cs-134	6.6E-01	11	6.3E-01	11	5.6E-01	9.3	1.2E+00	20	6.0E-02
Cs-137	6.7E-01	7.4	6.1E-01	6.8	6.0E-01	6.7	1.2E+00	13	9.0E-02

核種	4月12日 7:55 2F岩沢海岸付近(1,2号放水口から南側に約7,000m地点)		4月13日 7:50 2F岩沢海岸付近(1,2号放水口から南側に約7,000m地点)						③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)					
I-131	1.1E+00	28	1.1E+00	28					4.0E-02
Cs-134	9.3E-01	16	1.0E+00	17					6.0E-02
Cs-137	9.7E-01	11	1.1E+00	12					9.0E-02

※ 0.0E-0とは、0.0×10-0と同じ意味である。

採取場所: 1F敷地沖合約15km付近

測定方法: 試料500mlを福島第二へ運搬し, Ge半導体検出器で測定

測定時間: 1,000秒

核種	4月8日~10日 悪天候のため採取できず	4月11日 9:31 1F敷地沖合約15km付近		4月11日 10:53 1F敷地沖合約15km付近		4月12日~13日 悪天候のため採取できず	③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
		①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)		
I-131		2.2E-01	5.5	1.9E-01	4.8		4.0E-02
Cs-134		1.5E-01	2.5	1.5E-01	2.5		6.0E-02
Cs-137		1.6E-01	1.8	1.6E-01	1.7		9.0E-02

核種								③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
I-131								4.0E-02
Cs-134								6.0E-02
Cs-137								9.0E-02

* 0.0E-0とは、0.0×10-0と同じ意味である。

採取場所:2F敷地沖合約15km付近

測定方法:試料500mlを福島第二へ運搬し、Ge半導体検出器で測定

測定時間:1,000秒

検出核種 (半減期)	4月7日 10:24 2F敷地沖合約15km付近		4月8日~10日 悪天候のため採取できず	4月11日 9:01 2F敷地沖合約15km付近		4月11日 10:27 2F敷地沖合約15km付近		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)		①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	
I-131	4.6E-02	1.20		2.0E-01	5.0	2.1E-01	5.3	4.0E-02
Cs-134	1.9E-02	0.3		1.5E-01	2.5	1.7E-01	2.8	6.0E-02
Cs-137	1.9E-02	0.2		1.4E-01	1.6	1.7E-01	1.9	9.0E-02

核種	4月12日~13日 悪天候のため採取できず							③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
I-131								4.0E-02
Cs-134								6.0E-02
Cs-137								9.0E-02

※ 0.0E-0とは、0.0×10-0と同じ意味である。

採取場所:岩沢海岸沖合約15km付近

測定方法:試料500mlを福島第二へ運搬し, Ge半導体検出器で測定

測定時間:1,000秒

検出核種 (半減期)	4月7日 9:52 岩沢海岸沖合約15km付近		4月8日~10日 悪天候のため採取できず	4月11日 8:37 岩沢海岸沖合約15km付近		4月11日 9:58 岩沢海岸沖合約15km付近		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)		①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	
I-131	5.6E-02	1.40		4.9E-02	1.2	4.0E-02	1.0	4.0E-02
Cs-134	2.2E-02	0.4		3.7E-02	0.62	3.1E-02	0.52	6.0E-02
Cs-137				3.5E-02	0.39	3.2E-02	0.36	9.0E-02

核種	4月12日 悪天候のため採取できず	4月13日 9:25 岩沢海岸沖合約15km付近					③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
		①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)				
I-131		1.2E-01	3.0				4.0E-02
Cs-134		1.2E-01	2.0				6.0E-02
Cs-137		1.1E-01	1.2				9.0E-02

※ 0.0E-0とは、0.0×10-0と同じ意味である。

採取場所: 請戸川沖合約15km付近

測定方法: 試料500mlを福島第二へ運搬し, Ge半導体検出器で測定

測定時間: 1,000秒

検出核種 (半減期)	4月5日 13:48		4月6日 11:10		4月6日 11:54		4月7日 10:02		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	請戸川沖合約15km付近		請戸川沖合約15km付近		請戸川沖合約15km付近		請戸川沖合約15km付近		
	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	
I-131	2.0E-01	5.0	4.2E-01	11	3.8E-01	9.5	1.6E-01	4.0	4.0E-02
Cs-134	6.5E-02	1.1	1.9E-01	3.2	1.8E-01	3.0	9.3E-02	1.6	6.0E-02
Cs-137	7.1E-02	0.79	2.0E-01	2.2	1.9E-01	2.1	8.1E-02	0.9	9.0E-02

核種	4月8日~10日 悪天候のため採取できず	4月11日 10:00		4月11日 11:18		4月12日~13日 悪天候のため採取できず	③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
		請戸川沖合約15km付近		請戸川沖合約15km付近			
		①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)		
I-131		2.7E-01	6.8	2.4E-01	6.0		4.0E-02
Cs-134		2.0E-01	3.3	1.9E-01	3.2		6.0E-02
Cs-137		2.0E-01	2.2	2.0E-01	2.2		9.0E-02

※ 0.0E-0とは、0.0×10-0と同じ意味である。

採取場所: 広野町沖合約15km付近

測定方法: 試料500mlを福島第二へ運搬し, Ge半導体検出器で測定

測定時間: 1,000秒

検出核種 (半減期)	4月5日 12:44		4月6日 13:18		4月6日 13:37		4月7日 8:14		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	広野町沖合約15km付近		広野町沖合約15km付近		広野町沖合約15km付近		広野町沖合約15km付近		
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	
I-131	9.8E-02	2.5	3.1E-02	0.78			3.0E-02	0.8	4.0E-02
Cs-134	5.7E-02	1.0	1.2E-02	0.20			8.5E-03	0.1	6.0E-02
Cs-137	5.9E-02	0.66	1.4E-02	0.18			7.3E-03	0.1	9.0E-02

核種	4月7日 9:15		4月8日~10日 悪天候のため採取できず	4月11日 8:10		4月11日 9:30		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	広野町沖合約15km付近			広野町沖合約15km付近		広野町沖合約15km付近		
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)		①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	
I-131	4.8E-02	1.20		1.6E-02	0.4	8.1E-03	0.20	4.0E-02
Cs-134	2.8E-02	0.47				5.9E-03	0.10	6.0E-02
Cs-137	2.4E-02	0.27				7.5E-03	0.08	9.0E-02

※ 0.0E-0とは、0.0×10⁻⁰と同じ意味である。

採取場所: 広野町沖合約15km付近

測定方法: 試料500mlを福島第二へ運搬し, Ge半導体検出器で測定

測定時間: 1,000秒

検出核種 (半減期)	4月12日 悪天候のため採取できず	4月13日 8:42		広野町沖合約15km付近		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
		①放射能濃度 (Bq/cm ³)	水中濃度限度に対する割合 (①/③)			
I-131		2.1E-02	0.53			4.0E-02
Cs-134		1.9E-02	0.32			6.0E-02
Cs-137						9.0E-02

核種						③周辺監視区域外の水中の
I-131						4.0E-02
Cs-134						6.0E-02
Cs-137						9.0E-02

※ 0.0E-0とは、0.0×10⁻⁰と同じ意味である。

採取場所:南相馬市沖合約15km付近

測定方法:試料500mlを福島第二へ運搬し、Ge半導体検出器で測定

測定時間:1,000秒

検出核種 (半減期)	4月5日 14:03		4月6日 10:41		4月6日 11:30		4月7日 10:30		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
	南相馬市沖合約15km付近		南相馬市沖合約15km付近		南相馬市沖合約15km付近		南相馬市沖合約15km付近		
	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)	
I-131	5.7E-02	1.4	6.6E-02	1.7	2.4E-02	0.60	3.7E-01	9.3	4.0E-02
Cs-134			4.5E-02	0.75			2.0E-01	3.3	6.0E-02
Cs-137	1.8E-02	0.2	4.6E-02	0.51			2.1E-01	2.3	9.0E-02

核種	4月8日~10日 悪天候のため採取できず	4月11日 10:24		4月12日~13日 悪天候のため採取できず		③周辺監視区域外の水中の濃度限度 (Bq/cm ³)
		南相馬市沖合約15km付近				
		①放射能濃度 (Bq/cm ³)	水中濃度限度 に対する割合 (①/③)			
I-131		9.2E-01	23			4.0E-02
Cs-134		7.6E-01	13			6.0E-02
Cs-137		7.6E-01	8.4			9.0E-02

※ 0.0E-0とは、0.0×10-0と同じ意味である。

参考値

福島第一 物揚場前、2号機スクリーン、1~4号機取水口内 海水核種分析結果

(データ集約: 4/14)

採取場所	1F 物揚場前海水		1F 2号機スクリーン海水		1F 1~4号機取水口内南側海水		1F 1~4号機取水口内北側海水		②炉規則告示 濃度限度Bq/cm ³ (別表第2第六欄 周辺監視区域外の 水中の濃度限度)
試料採取日 時刻	平成23年4月13日 7時10分		平成23年4月13日 8時25分		平成23年4月13日 7時25分		平成23年4月13日 8時40分		
検出核種 (半減期)	①試料濃度 (Bq/cm ³)	倍率 (①/②)	①試料濃度 (Bq/cm ³)	倍率 (①/②)	①試料濃度 (Bq/cm ³)	倍率 (①/②)	①試料濃度 (Bq/cm ³)	倍率 (①/②)	
I-131 (約8日)	2.9E+01	730	1.0E+02	2.500	6.9E+01	1.700	5.5E+01	1.400	4E-02
Cs-134 (約2年)	2.8E+01	470	5.5E+01	920	6.2E+01	1.000	4.7E+01	780	6E-02
Cs-137 (約30年)	2.8E+01	310	5.5E+01	610	6.3E+01	700	4.8E+01	530	9E-02

※ 0.0E+0とは、 $0.0 \times 10^{+0}$ と同じ意味である。

※ その他の核種については評価中。

福島第一原子力発電所敷地内における空气中放射性物質の核種分析結果について

1. 採取・測定条件

試料採取	場所	福島第一 西門			
	日時	4/8 2:01~2:21	4/9 1:59~2:19	4/10 2:00~2:20	4/11 2:00~2:20
	採取方法	モニタリングカーにてダスト採取			

2. 結果

	核種	4/8採取分		4/9採取分		4/10採取分		4/11採取分		③放射線業務従事者の呼吸する空气中の濃度限度(Bq/cm ³)※
		①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	
揮発性	I-131	2.1E-04	0.21	1.5E-04	0.15	1.3E-04	0.13	1.1E-04	0.11	1.0E-03
	Cs-134	1.3E-05	0.01	1.3E-05	0.01	ND	-	1.1E-05	0.01	2.0E-03
	Cs-137	1.4E-05	0.00	ND	-	ND	-	1.4E-05	0.00	3.0E-03
粒子状	I-131	8.7E-05	0.09	8.0E-05	0.08	4.9E-05	0.05	4.0E-05	0.04	1.0E-03
	Cs-134	9.6E-06	0.00	7.1E-06	0.00	ND	-	ND	-	2.0E-03
	Cs-137	9.0E-06	0.00	9.1E-06	0.00	6.0E-06	0.00	5.8E-06	0.00	3.0E-03

※ 人が呼吸する空气中の放射性核種の3ヶ月間についての平均濃度に対して、法令にて定められている濃度限度。

※ 0.0E-0とは、 0.0×10^{-0} と同じ意味である。

福島第一原子力発電所敷地内における空气中放射性物質の核種分析結果について

1. 採取・測定条件

試料採取	場所	福島第一 西門			
	日時	4/12 2:00~2:20	4/13 2:00~2:20		
	採取方法	モニタリングカーにてダスト採取			

2. 結果

	核種	4/12採取分		4/13採取分						③放射線業務従事者の呼吸する空气中の濃度限度(Bq/cm ³)※
		①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)					
揮発性	I-131	1.3E-04	0.13	9.7E-05	0.10					1.0E-03
	Cs-134	2.2E-05	0.01	ND	-					2.0E-03
	Cs-137	2.9E-05	0.01	1.1E-05	0.00					3.0E-03
粒子状	I-131	1.1E-04	0.11	1.1E-04	0.11					1.0E-03
	Cs-134	3.3E-05	0.02	2.3E-05	0.01					2.0E-03
	Cs-137	3.8E-05	0.01	2.6E-05	0.01					3.0E-03

※ 人が呼吸する空气中の放射性核種の3ヶ月間についての平均濃度に対して、法令にて定められている濃度限度。

※ 0.0E-0とは、 0.0×10^{-0} と同じ意味である。

福島第二原子力発電所敷地内における空气中放射性物質の核種分析結果について

1. 採取・測定条件

試料採取	場所	福島第二 MP-1					
	日時	4/8 9:33~9:41	4/8 15:28~15:36	4/9 9:07~9:14	4/9 15:38~15:45	4/10 9:09~9:17	4/10 16:38~16:45
	採取方法	モニタリングカーにてダスト採取					

2. 結果

	核種	4/8採取分①		4/8採取分②		4/9採取分①		4/9採取分②		4/10採取分①		4/10採取分②		③放射線業務従事者の呼吸する空气中の濃度限度(Bq/cm ³)※
		①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	
揮発性	I-131	2.6E-05	0.03	1.6E-05	0.02	4.4E-05	0.04	1.7E-05	0.02	1.9E-05	0.02	2.1E-05	0.02	1.0E-03
	Cs-134	ND	-	ND	-	2.0E-05	0.01	ND	-	ND	-	ND	-	2.0E-03
	Cs-137	ND	-	ND	-	2.0E-05	0.01	ND	-	ND	-	ND	-	3.0E-03
粒子状	I-131	1.5E-05	0.02	1.0E-05	0.01	2.7E-05	0.03	1.1E-05	0.01	1.4E-05	0.01	2.6E-05	0.03	1.0E-03
	Cs-134	ND	-	ND	-	1.1E-05	0.01	ND	-	ND	-	1.2E-05	0.01	2.0E-03
	Cs-137	ND	-	ND	-	1.1E-05	0.00	ND	-	ND	-	1.2E-05	0.00	3.0E-03

※ 人が呼吸する空气中の放射性核種の3ヶ月間についての平均濃度に対して、法令にて定められている濃度限度。

福島第二原子力発電所敷地内における空气中放射性物質の核種分析結果について

採取・測定条件

試料採取	場所	福島第二 MP-1					
	日時	4/11 9:15~9:22	4/11 16:03~16:11	4/12 9:09~9:16	4/12 15:39~15:47	4/13 9:03~9:10	4/13 16:23~16:31
	採取方法	モニタリングカーにてダスト採取					

結果

核種	4/11採取分①		4/11採取分②		4/12採取分①		4/12採取分②		4/13採取分①		4/13採取分②		③放射線業務従事者の呼吸する空气中の濃度限度(Bq/cm ³)※	
	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)	①放射能濃度(Bq/cm ³)	空气中濃度限度に対する割合(①/③)		
揮発性	I-131	1.7E-05	0.02	1.6E-05	0.02	2.1E-05	0.02	1.9E-05	0.02	1.8E-05	0.02	2.0E-05	0.02	1.0E-03
	Cs-134	ND	-	8.9E-08	0.00	1.2E-05	0.01	ND	-	ND	-	8.9E-06	0.00	2.0E-03
	Cs-137	ND	-	8.5E-08	0.00	7.9E-06	0.00	ND	-	ND	-	7.7E-06	0.00	3.0E-03
粒子状	I-131	1.2E-05	0.01	8.4E-06	0.01	2.3E-05	0.02	7.3E-06	0.01	1.6E-05	0.02	8.9E-06	0.01	1.0E-03
	Cs-134	ND	-	ND	-	1.1E-05	0.01	ND	-	9.1E-06	0.00	ND	-	2.0E-03
	Cs-137	ND	-	ND	-	9.4E-08	0.00	ND	-	9.5E-06	0.00	ND	-	3.0E-03

：人が呼吸する空气中の放射性核種の3ヶ月間についての平均濃度に対して、法令にて定められている濃度限度。

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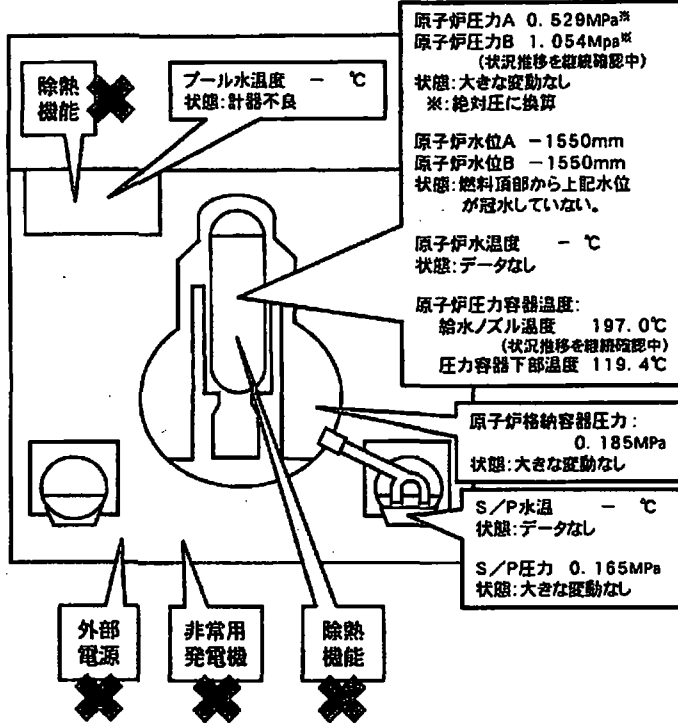
EVENT TITLE										EVENT DATE				
Re-evaluation of INES rating: Effect to the Nuclear Facilities from the earthquake on east area of Japan										2011-04-12				
Rating		LEVEL							Type of event					
Provisional	<input checked="" type="radio"/>	Below		INCIDENT			ACCIDENT			Power Reactor	<input checked="" type="radio"/>	Research Reactor	<input checked="" type="radio"/>	
Final	<input type="radio"/>	N/A	Scale/Level	1	2	3	4	5	6	7	Radwaste Facility	<input type="radio"/>	Radiation Source	<input type="radio"/>
Rating Date (yyyy-mm-dd)		0		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irradiation/Accelerators Facility	<input type="radio"/>	Transportation	<input type="radio"/>
2011-04-12	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fuel Fabrication	<input type="radio"/>	Fuel Reprocessing	<input type="radio"/>
Event Location/Facility Name										Research Facility	<input type="radio"/>	Mining/Milling	<input type="radio"/>	
Fukushima Daiichi, Japan										Enrichment Facility	<input type="radio"/>	Radioisotope Processing/Handling Facility	<input type="radio"/>	
											<input type="radio"/>	Other	<input type="radio"/>	

	YES	NO
Impact on people and the environment		
Release beyond authorized limits?	<input checked="" type="radio"/>	<input type="radio"/>
Overexposure of a member of the public?	<input type="radio"/>	<input checked="" type="radio"/>
Overexposure of a worker?	<input checked="" type="radio"/>	<input type="radio"/>
Impact on the radiological barriers and controls at facilities		
Contamination spread within the facility?	<input type="radio"/>	<input checked="" type="radio"/>
Damage to radiological barriers (incl. fuel damage) within the facility?	<input checked="" type="radio"/>	<input type="radio"/>
Degradation of Defence In-Depth		
Other information	<input type="radio"/>	<input checked="" type="radio"/>
Person injured physically or casualty?	<input type="radio"/>	<input checked="" type="radio"/>
Is there a continuing problem?	<input checked="" type="radio"/>	<input type="radio"/>
Was the press release issued?		
(If yes please attach, even if in national language)	<input checked="" type="radio"/>	<input type="radio"/>

Event Description for Public Information	
(If event involves radiation sources, include the IAEA categorization, isotopes and activity level)	
<p>In March 18, rating of the INES on the events in Fukushima Dai-ichi Nuclear Power Station, by the Tohoku Regional Pacific Ocean Offshore Earthquake is temporary estimated Rating 5. However, Nuclear and Industrial Safety Agency (NISA) estimated total amount of discharge from Fukushima Dai-ichi NPS, using the analytical result of the state of nuclear reactor under the cooperation of Japan Nuclear Energy Safety Organization (JNES). As a result of re-evaluation, total amount of discharged I131 is estimated at 1.3×10^{17} Bq, and Cs137 is estimated at 6.1×10^{15} Bq. Hence NISA concluded that the rating of the accident would be equivalent of Rating 7.</p> <p>This result is present status of discharge from Fukushima Dai-ichi NPS. Because discharge is on going and the amount of discharge from each reactor is unspecified, NISA will continuously be gathering information and evaluate them.</p>	
Contact Person for Further Information	
Name	Affiliation
Address	

福島第一原子力発電所1号機の状況 (4月15日 6:00現在)

主要な出来事

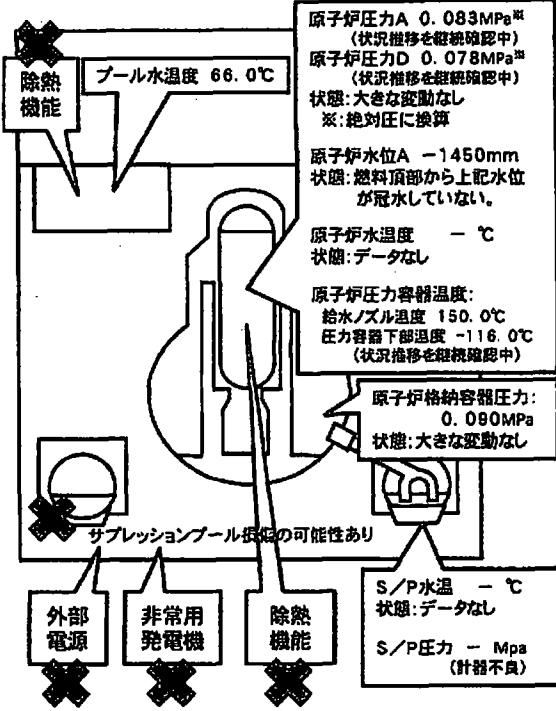


- 3/11 14:46 運転中、地震により自動停止
- 3/11 15:42 10条通報(全交流電源喪失)
- 3/11 16:36 15条事象の発生(非常用炉心冷却装置注水不能)
- 3/12 01:20 15条事象の発生(格納容器圧力異常上昇)
- 3/12 10:17 ベント開始
- 3/12 15:36 爆発音
- 3/12 20:20 海水及びホウ酸の炉心注水開始
- 3/23 02:33 消火系に加え、給水系を使うことにより炉心への注水量増量
(2m³/h → 18m³/h)。9:00に給水系のみに切替(18m³/h → 11m³/h)
- 3/24 11:30 中央制御室の照明復帰
- 3/25 15:37 淡水の炉心注水開始
- 3/29 08:32 仮設電動ポンプでの炉心注水に切替
- 3/31 12:00~4/2 15:25 復水貯蔵タンク(CST)からサブプレッションプール水
サージタンク(SPT)へ移送開始
- 3/31 13:03 ~16:04 コンクリートポンプ車による放水(淡水)
- 4/3 12:02 仮設電動ポンプの電源を仮設電源から外部電源に切替
- 4/3 13:55 復水器からCSTへ移送開始
- 4/6 22:30 原子炉格納容器への窒素封入操作開始
- 4/7 01:31 原子炉格納容器への窒素封入開始を確認
- 4/9 04:10 原子炉格納容器への窒素封入を高純度窒素発生装置に切替
- 4/10 09:30 復水器からCSTへの移送完了
- 4/11 17:16頃 地震発生により外部電源が喪失するとともに炉心注水及び原
子炉格納容器への窒素封入停止
- 4/11 17:56 外部電源復旧
- 4/11 18:04 炉心注水再開
- 4/11 23:19 原子炉格納容器への窒素封入操作開始
- 4/11 23:34 原子炉格納容器への窒素封入開始を確認

現状: プール及び炉心への淡水注入を継続

福島第一原子力発電所2号機の状況 (4月15日 6:00現在)

主要な出来事1/2



- 3/11 14:46 運転中、地震により自動停止
- 3/11 15:42 10条通報(全交流電源喪失)
- 3/21 16:36 15条事象の発生(非常用炉心冷却装置注水不能)
- 3/13 11:00 ベント開始
- 3/24 13:25 15条事象の発生(原子炉冷却機能喪失)
- 3/14 16:34 海水の炉心注水開始
- 3/14 22:50 15条事象の発生(格納容器圧力異常上昇)
- 3/15 00:02 ベント開始
- 3/15 06:10 爆発音発生
- 3/15 06:20頃 サプレッションプール(圧力抑制室)損傷の可能性あり
- 3/20 15:05~17:20 使用済燃料プール冷却系(FPC)から使用済燃料プール(SFP)に海水を注水
- 3/20 15:46 パワーセンター受電
- 3/21 18:22 白煙が発生。22日7:11にほとんど見えない程度に減少
- 3/22 16:07 SFPに海水を注水
- 3/25 10:30~12:19 FPCからSFPに海水を注水
- 3/26 10:10 淡水の炉心注水開始
- 3/26 16:46 中央制御室の照明復帰
- 3/27 18:31 仮設電動ポンプでの炉心注水に切替
- 3/29 16:30~18:25 仮設電動ポンプでの淡水のSFP注水に切替
- 3/29 16:45~4/1 11:50 復水貯蔵タンク(CST)からサブプレッションプール水サージタンク(SPT)へ移送
- 4/2 09:25~23:50 SFPへ注水していたところ、仮設電動ポンプの不調を確認(9:45)。消防ポンプに切替えて注水するが、ホース破損が確認(12:47,13:10)されたため、注水中断。19:05に淡水注水を再開
- 4/1 14:56~17:05 FPCからSFPへ仮設電動ポンプにより淡水注水
- 4/2 09:30頃 取水口付近のビットに1000mSv/hを超える水が溜まっていること及びビット側面から、水が流出していることを確認
- 4/2 17:10 復水器からCSTへ移送開始
- 4/3 12:12 仮設電動ポンプの電源を仮設電源から外部電源に切替
- 4/3 13:47~14:30 ビット内に、おがくず20袋、高分子吸収材80袋、切断処理した新聞紙3袋を投入
- 4/4 07:08~07:11 トレーサー(入浴剤)約13kgを海水配管トレンチ立坑から投入
- 4/4 11:05~13:37 FPCからSFPへ仮設電動ポンプにより淡水注水
- 4/5 14:15 トレーサーが立坑周辺の隙間から海へ流出していることを確認。15:07から凝固剤の注入開始
- 4/6 05:38頃 ビット側面からの水の流出が止まったことを確認
- 4/7 13:29~14:34 FPCからSFPに仮設電動ポンプにより淡水注水
- 4/9 13:10 復水器からCSTへの移送完了
- 4/10 10:37~12:38 FPCからSFPへ仮設電動ポンプにより淡水注水
- 4/11 17:16頃 地震発生により外部電源が喪失するとともに炉心注水停止
- 4/11 17:56 外部電源復帰
- 4/11 18:04 炉心注水再開

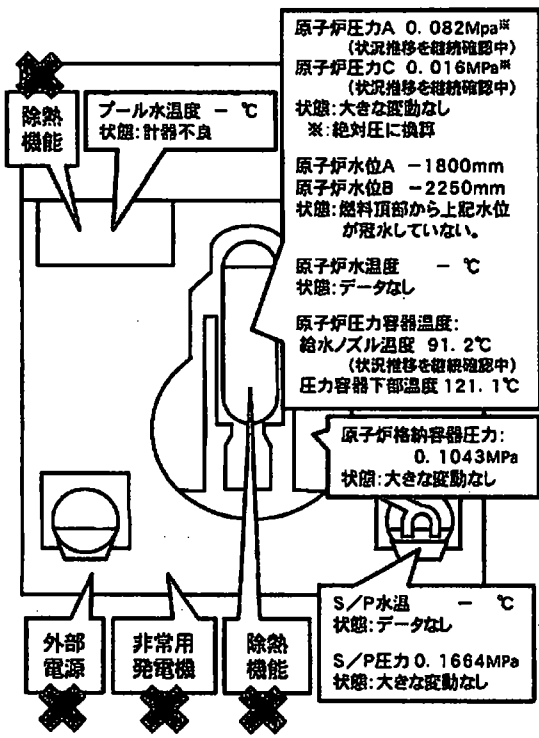
現状: プール及び炉心への淡水注入を継続

主要な出来事2/2

- 4/12 19:35~4/13 17:04 タービン建屋トレンチから復水器への移送
- 4/13 11:00 漏えい確認等のため一時停止
- 4/13 13:15~14:55 FPCからSFPへ仮設電動ポンプにより淡水注水

福島第一原子力発電所3号機の状況 (4月15日 6:00現在)

主要な出来事

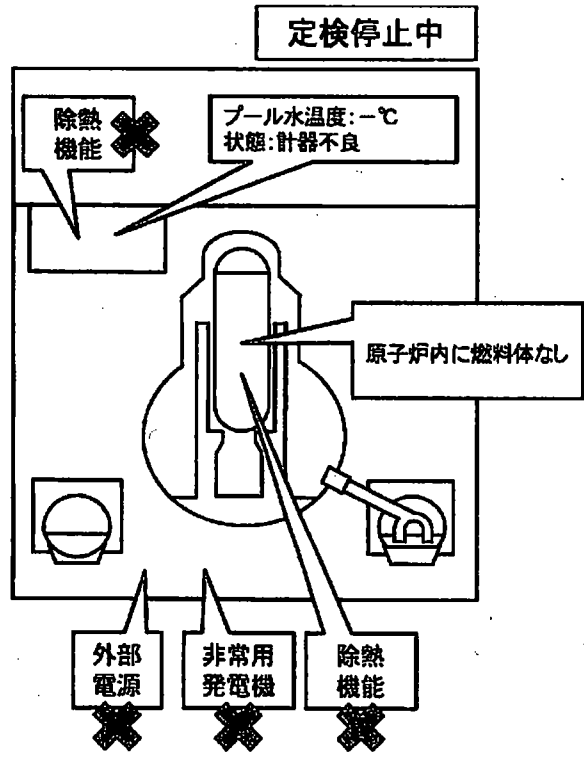


- 3/11 14:46 運転中、地震により自動停止
 - 3/11 15:42 10条通報(全交流電源喪失)
 - 3/13 05:10 15条事象の発生(非常用炉心冷却装置注水不能)
 - 3/13 08:41 ベント開始
 - 3/13 13:12 海水及びホウ酸の炉心注水開始
 - 3/14 05:20 ベント開始
 - 3/14 07:44 15条事象の発生(格納容器圧力異常上昇)
 - 3/14 11:01 爆発音
 - 3/16 08:30頃 白煙が発生
 - 3/17 09:48~10:01 自衛隊ヘリによる放水
 - 3/17 19:05~19:15 警備の高圧放水車による放水
 - 3/17 19:35~20:09 自衛隊の消防車により放水
 - 3/18 14時前~14:38 自衛隊消防車6台による地上放水~14:45 米軍消防車1台による地上放水
 - 3/19 0:30~01:10 東京消防庁ハイパーレスキュー隊放水
 - 3/19 14:10~3/20 03:40 東京消防庁ハイパーレスキュー隊放水
 - 3/20 11:00 格納容器内圧力が上昇(320kPa)。その後、低下
 - 3/20 21:36~3/21 03:58 東京消防庁ハイパーレスキュー隊放水
 - 3/21 15:55頃 灰色がかかった煙が発生。17:55に煙が収まっていることを確認
 - 3/22 15:10~16:00 東京消防庁ハイパーレスキュー隊及び大阪市消防局放水
 - 3/22 22:46 中央制御室の照明復帰
 - 3/23 11:03-13:20 使用済燃料プール冷却系(FPC)から使用済燃料プール(SFP)に海水を注水
 - 3/23 16:20頃 黒煙が発生。23:30頃及び3/24 04:50に煙の発生が止んでいることを確認
 - 3/24 05:35~16:05 FPCからSFPに海水を注水
 - 3/25 13:28~16:00 東京消防庁の支援を受けた川崎市消防局による放水
 - 3/25 18:02 淡水の炉心注水開始
 - 3/27 12:34~14:36 コンクリートポンプ車による放水(海水)
 - 3/28 17:40~3/31 08:40頃 復水貯蔵タンク(CST)からサブプレッションプール水サージタンク(SPT)へ移送
 - 3/28 20:30 仮設電動ポンプでの炉心注水に切替
 - 4/3 12:18 仮設電動ポンプの電源を仮設電源から外部電源に切替
 - 4/11 17:16頃 地震発生による1,2号機の外部電源喪失に伴い炉心注水停止
 - 4/11 18:04 1,2号機の外部電源復旧(4/11 17:56)により、炉心注水再開
- <コンクリートポンプ車による放水(淡水)>
 3/29 14:17~18:18、3/31 16:30~19:33、4/2 09:52~12:54、4/4 17:03~19:19、4/7 06:53~8:53
 4/8 17:06~20:00、4/10 17:15~19:15、4/12 16:26~17:16、4/14 15:56~16:32

現状: プール及び炉心への淡水注入を継続

福島第一原子力発電所4号機の状況 (4月15日 6:00現在)

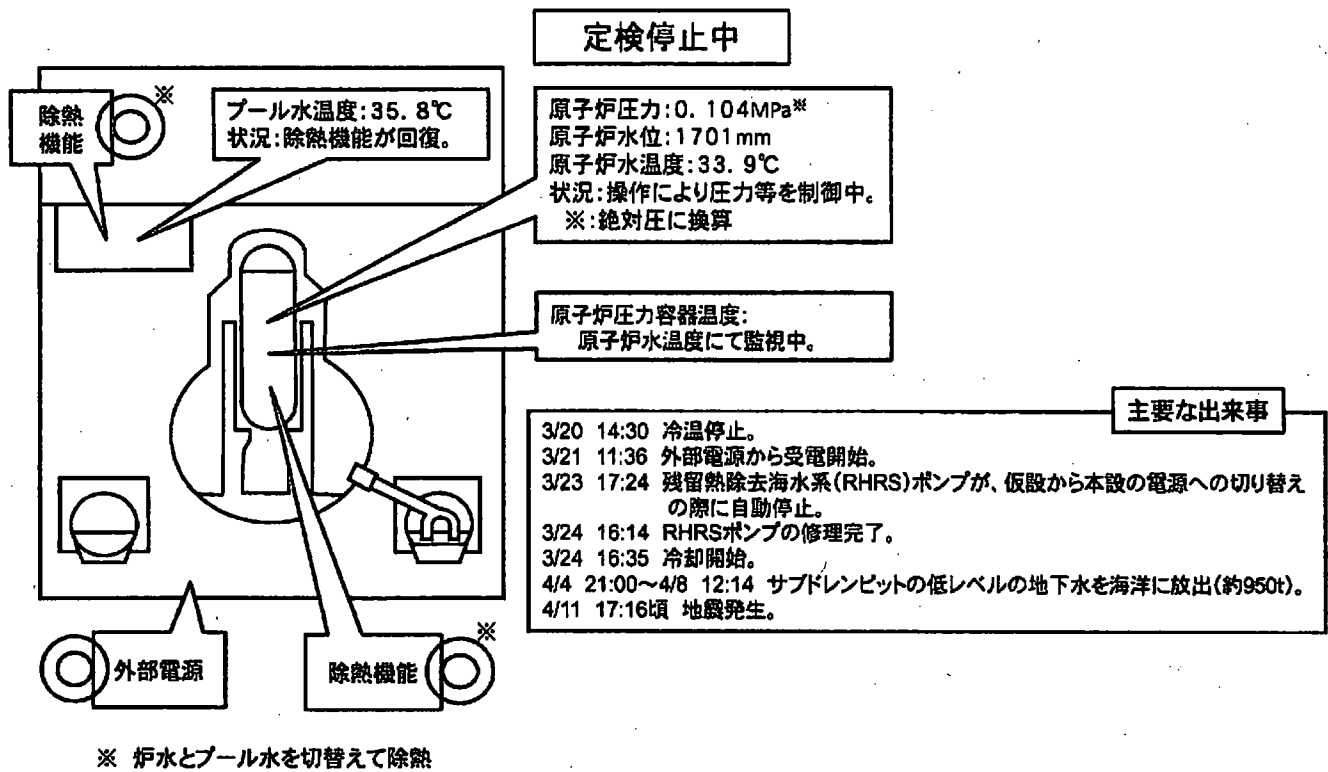
主要な出来事



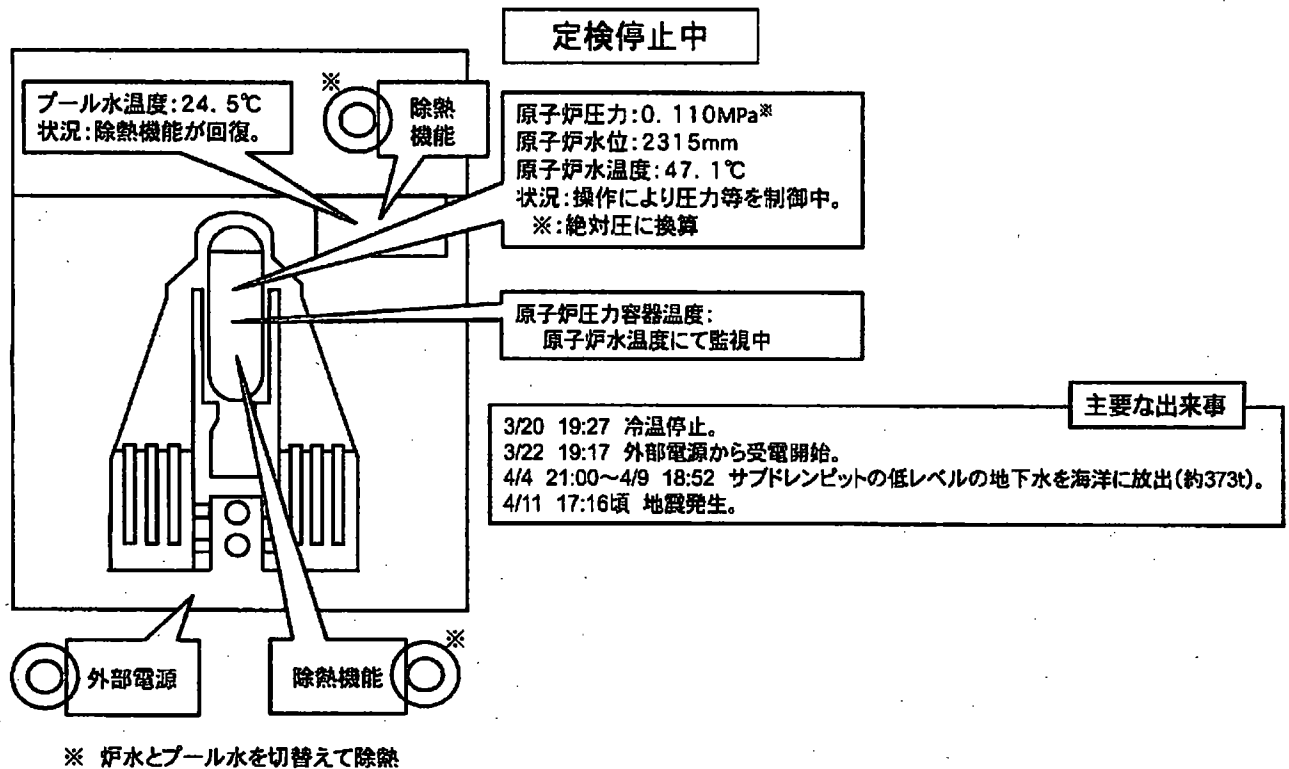
- 地震発生時、定期検査により停止中
- 3/14 04:08 使用済燃料プール温度84℃
- 3/15 06:14 4Fの壁が一部破損の確認
- 3/15 09:38 3階部分で火災(12:25鎮火)
- 3/16 05:45 4号機で火災。事業者によると現場での火は確認できず(06:15)
- 3/20 08:21~09:40 自衛隊による使用済燃料プール(SFP)への放水
- 3/20 18:30頃 ~ 19:46 自衛隊によるSFPへの放水
- 3/21 06:37~08:41 自衛隊によるSFPへの放水
- 3/21 15:00頃 パワーセンターまでのケーブル敷設完了
- 3/22 10:35 パワーセンター受電
- <コンクリートポンプ車による放水(海水)>
 3/22 17:17~20:32、3/23 10:00~13:02、3/24 14:36~17:30、3/25 19:05~22:07、
 3/27 16:55~19:25
- 3/25 06:05~10:20 使用済燃料プール冷却系(FPC)からSFPに海水を注水
- 3/29 11:50 中央制御室の照明復帰
- 4/11 17:16頃 地震発生
- 4/12 12:00~13:04 SFP内の水のサンプリング作業を実施。
- <コンクリートポンプ車による放水(淡水)>
 3/30 14:04~18:33、4/1 08:28~14:14、4/3 17:14~22:16、4/5 17:35~18:22、
 4/7 18:23~19:40、4/9 17:07~19:24、4/13 0:30~6:57

現状: 原子炉圧力容器に燃料体が存在しない
プールへの淡水注入を継続

福島第一原子力発電所5号機の状況 (4月15日 6:00現在)



福島第一原子力発電所6号機の状況 (4月15日 6:00現在)



福島第一原子力発電所 プラント関連パラメータ

4月15日 6:00 現在

※1: 計器不良
 ※2: データ採取対象外
 ※3: 状況推移を概観確認中

号機	1u	2u	3u	4u	5u	6u
注水状況	給水ポンプを用いた淡水注入中。 流量 6m³/h (4/3 17:30) 仮設計器	消火系ポンプを用いた淡水注入中。 流量 7m³/h (4/7 19:00) 仮設計器	消火系ポンプを用いた淡水注入中。 流量 7m³/h (4/3 17:32) 仮設計器	停止中	停止中	停止中
原子炉水位	燃料域A: -1550mm 燃料域B: -1550mm (4/15 0:00 現在)	燃料域A: -1450mm (4/15 0:00 現在)	燃料域A: -1800mm 燃料域B: -2250mm (4/15 0:00 現在)	※2	停止域 1701mm (4/15 6:00 現在)	停止域 2315mm (4/15 6:00 現在)
原子炉圧力	0.428MPa g (A) 0.953MPa g (B) ※3 (4/15 3:00 現在)	-0.018MPa g (A) ※3 -0.023MPa g (D) ※3 (4/15 0:00 現在)	-0.019MPa g (A) ※3 -0.085MPa g (C) ※3 (4/15 0:00 現在)	※2	0.003MPa g (4/15 6:00 現在)	0.010MPa g (4/15 6:00 現在)
原子炉水温度	(系統流量がないため採取不可)			※2	33.9℃ (4/15 6:00 現在)	47.1℃ (4/15 6:00 現在)
原子炉圧力容器温度	給水/炉温度: 197.0℃ ※3 圧力容器下部温度: 119.4℃ (4/15 3:00 現在)	給水/炉温度: 150.0℃ 圧力容器下部温度: -116.0℃ ※3 (4/15 0:00 現在)	給水/炉温度: 91.2℃ ※3 圧力容器下部温度: 121.1℃ (4/15 0:00 現在)	4u: 原子炉内に発熱体(燃料)なし 5,6u: 原子炉水温度にて監視中		
D/W・S/C 圧力	D/W 0.185MPa abs S/C 0.165MPa abs (4/15 3:00 現在)	D/W 0.090MPa abs S/C ※1 (4/15 0:00 現在)	D/W 0.1043MPa abs S/C 0.1664MPa abs (4/15 0:00 現在)	※2		
CAMS	D/W ※1 S/C 9.72×10⁹Sv/h (4/15 3:00 現在)	D/W 2.71×10¹Sv/h S/C 6.29×10¹Sv/h (4/15 0:00 現在)	D/W 1.65×10¹Sv/h S/C 6.34×10¹Sv/h (4/15 0:00 現在)	※2		
D/W 設計使用圧力	0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)	※2		
D/W 最高使用圧力	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	※2		
使用済燃料プール温度	※1	66.0℃ (4/15 0:00 現在)	※1	※1	35.8℃ (4/15 6:00 現在)	24.5℃ (4/15 6:00 現在)
FPC 入りダダのレベル	4500mm (4/15 0:00 現在)	5550mm (4/15 0:00 現在)	※1	4900mm (4/15 0:00 現在)	※2	
電源	外部電源受電中 (P/C2C)		外部電源受電中 (P/C4D)		外部電源受電中	
その他情報				共用プール: 28℃程度 (4/14 7:20)	5u: SHC モード (4/14 18:57~)	6u: 非熱モード (4/14 18:19~)

圧力換算 ゲージ圧(MPa g) = 絶対圧(MPa abs) - 大気圧(標準大気圧 0.1013 MPa)
 絶対圧(MPa abs) = ゲージ圧(MPa g) + 大気圧(標準大気圧 0.1013 MPa)

CZ 1194 of 2042

Attachment Point Beach.pdf(248478 bytes) cannot be converted to PDF format.

Executive Team Availability: 03/14/2011 - 03/20/2011

Call List 520

Key: A = Available to Respond, X = Not Available to Respond, D = Designated Executive Team Director and Available to Respond.

EXECUTIVE TEAM POSITIONS	NAME	MON 03/14	TUE 03/15	WED 03/16	THUR 03/17	FRI 03/18	SAT 03/19	SUN 03/20
ALL EVENTS - DIRECTOR	Gregory Jaczko	A	A	A	A	A	A	A
	Kristine Svinicki	X	X	X	X	X	A	A
	George Apostolakis	X	X	X	A	A	A	A
	William D. Magwood, IV	A	A	A	A	A	A	A
	William Ostendorf	A	A	A	A	A	A	A
ALL EVENTS - DEPUTY DIRECTOR	Bill Borchardt	A*	A*	A*	A*	A*	A*	A*
	Marty Virgilio	A*	A (1200) / X	X	X	X	X	X
	Mike Weber	A*	A*	A*	A*	A*	A*	A*
	James Dyer	A	A	A	A	A	A	A
	Darren Ash	A	A	A	A	A	A	A
ALL EVENTS - SECURITY AND FEDERAL COORDINATION	Jim Wiggins	X	X	X	X	X	X	X(2000) / A*
	Vacant							
	Roy Zimmerman	A	A	A	A	A	A	A
	Brian Sheron	A	A	A	A	A	A	A
	Jennifer Uhle	A	A	A	A	A	A	A
REACTOR EVENT - SAFETY SIGNIFICANCE AND LICENSEE RESPONSE	Eric Leeds	A*	A*	A*	A*	A*	A*	A*
	Bruce Boger	A	A	A	A	A	A	A
	John Grobe	A	A	A	A	A	A	A
	Michael Johnson	A	A	A	A	X	X	A
REACTOR EVENT - PROTECTIVE MEASURES AND STATE COORDINATION	Charlie Miller	A	A	A	A	X	A	A
	Catherine Haney	A*	A*	A*	A*	A*	A*	A*
	Cynthia Carpenter**	X	X	X	X	X	X	X
	Dan Dorman	A	A	A	A	A	A	A

1/15/2013 5:30

CZ 1196 of 2042

Executive Team Availability: 03/14/2011 - 03/20/2011

Call List 520

Key: A = Available to Respond, X = Not Available to Respond, D = Designated Executive Team Director and Available to Respond.

EXECUTIVE TEAM POSITIONS	NAME	MON 03/14	TUE 03/15	WED 03/16	THUR 03/17	FRI 03/18	SAT 03/19	SUN 03/20
FUEL CYCLE EVENT - SAFETY SIGNIFICANCE AND LICENSEE RESPONSE	Catherine Haney	A*	A*	A*	A*	A*	A*	A*
	Vonna Ordaz	A	A	A	A	A	A	A
	Dan Dorman	A	A	A	A	A	A	A
FUEL CYCLE EVENT - PROTECTIVE MEASURES AND STATE COORDINATION	Charlie Miller	A	A	A	A	X	A	A
	Cynthia Carpenter***	X	X	X	X	X	X	X
	Larry Camper	A	A	A	A	A	A	A
MATERIAL EVENT - SAFETY SIGNIFICANCE AND LICENSEE RESPONSE	Charlie Miller	A	A	A	A	X	A	A
	Cynthia Carpenter***	X	X	X	X	X	X	X
	Larry Camper	A	A	A	A	A	A	A
MATERIAL EVENT - PROTECTIVE MEASURES AND STATE COORDINATION	Catherine Haney	A*	A*	A*	A*	A*	A*	A*
	Vonna Ordaz	A	A	A	A	A	A	A
	Dan Dorman	A	A	A	A	A	A	A
NATIONAL EVENT - SAFETY SIGNIFICANCE AND LICENSEE RESPONSE								
NATIONAL EVENT - PROTECTIVE MEASURES AND STATE COORDINATION								

1/15/2013 5:30

*** On Rotation

This sheet is locked all information will come from SR MGR AVAILABILITY

Senior Manager's Availability: 03/21/2011 - 03/27/2011

Call List 700

Key: A = Available to Respond, X = Not Available to Respond, D = Designated Executive Team Director and Available to Respond. **Bold Red (A*)** = Imminent Security Threat Authority

NRC SENIOR MANAGEMENT	NAME	MON 03/21	TUE 03/22	WED 03/23	THUR 03/24	FRI 03/25	SAT 03/26	SUN 03/27
COMMISSIONERS	Gregory Jaczko	A	A	A	A	A	X after 2100	X
	Kristine Svinicki	A	A	A	A	A	A	A
	George Apostolakis	A	A	A	A	A	A	A
	William D. Magwood, IV	A	A	A	A	A	A	A
	William Ostendorff	A	A	A	A	A by cell	A by cell	A by cell
EDO	Bill Borchardt	A*	A*	A*	A*	A*	D*	A*
	Marty Virgilio	A*	A*	A*	A*	X	A*	A*
	Mike Weber	A*	A*	A*	A*	A*	A*	A*
	Darren Ash	A	A	A	A	A	A	A
	Cynthia Carpenter**	A	A	A	A	A	A	A
NSIR	Jim Wiggins	A*	A*	A*	A*	A*	A*	A*
	Vacant							
	Patricia Holahan	A	A	A	A	A	A	A
	Brian McDermott	A	X	A	A	A	A	A
NRR	Eric Leeds	A*	A*	A*	A*	A*	A*	A*
	Bruce Boger	A	A	A	X	X	X	X
	John Grobe	A	A	A	A	X	X	X
NMSS	Catherine Haney	X	X	X	X	X	A*	A*
	Dan Dorman	A	A	A	A	A	X	X
	Vonna Ordaz	A	A	A	A	A	A	A
RES	Brian Sheron	A	A	A	A	A	A	A
	Jennifer Uhle	A	A	A	A	A	A	A

3/26/2011 22:46

*** On Rotation

Senior Manager's Availability: 03/21/2011 - 03/27/2011

Call List 700

Key: A = Available to Respond, X = Not Available to Respond, D = Designated Executive Team Director and Available to Respond. **Bold Red (A*)** = Imminent Security Threat Authority

NRC SENIOR MANAGEMENT	NAME	MON 03/21	TUE 03/22	WED 03/23	THUR 03/24	FRI 03/25	SAT 03/26	SUN 03/27
NRO	Michael Johnson	A	A	A	A	A	A	A
	Gary Holahan	X	X	X	X	X	X	X
	Laura Dudes	X	X	X	X	X	X	X
	Michael Mayfield	A	A	A	A	A	A	A
	Charles Ader	A	A	A	A	A	A	A
FSME	Charlie Miller	A	A	A	A	A	A	A
	Scott Moore	A	A	A	A	A	A	A
	Larry Camper	A	A	A	A	X	A	A
OGC	Stephen Burns	A	A	A	A	A	A	
SECY	Annette Vietti-Cook	A	A	A	A	A	A	A
	Andrew Bates	A	A	A	A	A	A	A
	Ken Hart	A	A	A	A	A	A	A
OCA	Rebecca Schmidt	A	A	A	A	A	A	
OPA	Eliot Brenner	A	A	A	A	A	A	A
	Beth Hayden	A	A	A	A	A	A	A
OIP	Margaret Doane	A	A	A	A	A	A	A
	Nader Mamish	A	A	A	A	A	A	A
OCFO	James Dyer	A	A	A	A	A	A	A
	Milton Brown	A	A	A	A	A	A	A
OIS	Tom Boyce	A	A	A	A	A	A	A
	Jim Schaeffer	A	A	A	A	A	A	A
ADM	Sharon Stewart*	A	A	A	A	A	A	A
	Barbara Gusack*	A	A	A	A	A	A	A
	Mary Jane Ross-Lee	A	A	A	A	A	A	A
OE	Roy Zimmerman	A	A	A	A	A	A	A

3/26/2011 22:46

* Temporary while Kathryn Green on leave

CZ 1199 of 2042

Senior Manager's Availability: 03/21/2011 - 03/27/2011
Call List 700

Key: A = Available to Respond, X = Not Available to Respond, D = Designated Executive Team Director and Available to Respond. **Bold Red (A*)** = Imminent Security Threat Authority

Senior Manager's Availability: 04/04/2011 - 04/10/2011

Call List 700

Key: A = Available to Respond, X = Not Available to Respond, D = Designated Executive Team Director and Available to Respond. **Red (A*)** = Imminent Security Threat Authority

From: LIA01 Hoc
Sent: Friday, March 11, 2011 4:28 PM
To: LIA07 Hoc; LIA11 Hoc
Subject: FW: Feedback

Categories: FOIA

FYI

From: Howell, Linda
Sent: Friday, March 11, 2011 4:27 PM
To: LIA01 Hoc
Subject: Feedback

Our RSLO did receive some feedback through the day from the states concerning interest in what is going on in Japan. Of course we didn't (and couldn't) share anything but I just thought I'd mention it in case we do develop some summary over the weekend that could be shared with the states.

From: Wright, Lisa (Gibney)
Sent: Friday, March 11, 2011 4:04 PM
To: LIA01 Hoc; LIA11 Hoc
Subject: FW: Updated SitRep
Attachments: 209.02a.03.11.2011.pdf

Categories: FOIA

From Michelle Ralston....should we upload into WebEOC???

From: Ralston, Michelle [mailto:Michelle.Ralston@dhs.gov]
Sent: Friday, March 11, 2011 3:47 PM
To: Wright, Lisa (Gibney)
Cc: Horwitz, Steve; Greten, Timothy
Subject: Fw: Updated SitRep

FYI
Respectfully,

Michelle Ralston

(202) 280-9304

From: FEMA-NRCC-reslead
To: Quinn, Vanessa
Cc: Sherwood, Harry; Kish, James; Eberst, William
Sent: Fri Mar 11 15:43:43 2011
Subject: FW: Updated SitRep

From: FEMA-NRCC-planchief
Sent: Friday, March 11, 2011 3:06 PM
To: FEMA-NRCC-doclead; FEMA-NRCC-reslead; FEMA-NRCC-plandeputy; FEMA-NRCC-curopsplana; FEMA-NRCC-curopspland; FEMA-NRCC-curopsplanb; FEMA-NRCC-assistant; FEMA-NRCC-curopsplanc; FEMA-NRCC-doclead; FEMA-NRCC-docrpts; FEMA-NRCC-sitstatinfoa; FEMA-NRCC-sitstatinfob; FEMA-NRCC-sitstatinfoc; FEMA-NRCC-sitstatinfod; FEMA-NRCC-sitstatinfoe; FEMA-NRCC-sitstatlead; FEMA-NRCC-restracking
Subject: FW: Updated SitRep

From: FEMA-R9IPCHIEF
Sent: Friday, March 11, 2011 3:06:16 PM
To: FEMA-NRCC-planchief
Subject: FW: Updated SitRep
Auto forwarded by a Rule

FYI...

R/Kash

Planning Section Chief
FEMA Region IX
Regional Response Coordination Center
Oakland, CA
Phone (510) 627 7705
Cell (b)(6)
FEMA-R9ipchief@fema.gov

From: FEMA-R9IPSIT1

Sent: Friday, March 11, 2011 12:03

To: FEMA-R9DCO; FEMA-R9DLO; FEMA-R9ESF01; FEMA-R9ESF02; FEMA-R9ESF03; FEMA-R9ESF04; FEMA-R9ESF06;
FEMA-R9ESF07; FEMA-R9ESF08H; FEMA-R9ESF08M; FEMA-R9ESF10; FEMA-R9ESF11; FEMA-R9ESF12; FEMA-R9ESF13a;
FEMA-R9ESF15; FEMA-R9-HRFAS; FEMA-R9IPCHIEF; FEMA-R9IPDOC; FEMA-R9IPGIS; FEMA-R9IPPLAN; FEMA-R9IPSIT1;
FEMA-R9LOGCP; FEMA-R9LOGISTICS-CHIEF; FEMA-R9-LOGOUL; FEMA-R9MASSCARE; FEMA-R9OIP; FEMA-R9OPSATC;
FEMA-R9OPSchIEF; FEMA-R9OPSES; FEMA-R9OPSHS; FEMA-R9OPSIS; FEMA-R9OPSMAC; FEMA-R9ROCAA; FEMA-
R9RRCCDIR; FEMA-R9TSA; FEMA-R9USCG; FEMA-R9Watchofficer

Subject: Updated SitRep

All,

Please find attached the latest SitRep.

Thank you all for your continued information,

Keith

From: LIA11 Hoc
Sent: Friday, March 11, 2011 2:57 PM
To: LIA07 Hoc
Subject: Document1
Attachments: Doc1.doc

Categories: FOIA

Thomas.Hipsch@nrc.gov

Michael.Marshall@nrc.gov

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James.Wiggins@nrc.gov

Michael.Johnson@nrc.gov

Brian.Sheron@nrc.gov

Rebecca.Schmidt@nrc.gov

Catherine.Hainey@nrc.gov

From: Wright, Lisa (Gibney)
Sent: Friday, March 11, 2011 1:15 PM
To: ops.cat@dhs.gov
Cc: LIA11 Hoc; LIA01 Hoc
Subject: NRC News release 11-042
Attachments: NRC News No. 11-042.docx

Categories: FOIA

Provided to you at the request of Jeff Temple at the US Nuclear Regulatory Commission for your information only.
IF you would prefer **NOT** to receive these type of updates, please advise and I will no longer forward.
Thank you

Lisa

Lisa Gibney Wright CEM
Team Leader- Communications and Outreach
Division of Preparedness and Response
Office of Nuclear Security and Incident Response
Mail Stop: T-3B46
US Nuclear Regulatory Commission
(301) 415-8376
Email: Lisa.Wright@nrc.gov



NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION

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E-mail: opa.resource@nrc.gov Site: www.nrc.gov

Blog: <http://public-blog.nrc-gateway.gov>

No. 11-042

March 11, 2011

NRC MONITORS NOTICE OF UNUSUAL EVENT AT DIABLO CANYON POWER PLANT, TSUNAMI ISSUES

The U.S. Nuclear Regulatory Commission, through its regional office in Arlington, Tex., is monitoring a notice of unusual event (NOUE) at the Diablo Canyon Power Plant, located near San Luis Obispo, Calif. Senior NRC officials are working at the agency's Rockville, Md., headquarters to coordinate NRC activities with respect to the Japanese earthquake and subsequent tsunami.

"The NRC is closely monitoring this situation as it unfolds with respect to nuclear facilities within the United States. NRC staff is working closely with its resident inspectors who are on site to ensure safe operations," said NRC Chairman Gregory Jaczko.

Pacific Gas and Electric Co. (PG&E), operator of the Diablo Canyon two-reactor plant, declared a precautionary NOUE Unusual Event at 4:23 a.m. EST today after receiving a tsunami warning from the West California Emergency Management Agency. The tsunami warning was generated after an estimated 8.9 magnitude earthquake occurred off the eastern Japanese coast.

The licensee reported the Diablo Canyon plant is stable and both units remain on line. The plant is well protected against tsunami conditions as required by NRC regulations. The NRC has staff at the plant keeping track of the plant's response.

Nuclear power plants are built to withstand environmental hazards, including earthquakes and tsunamis. Even those plants that are located outside of areas with extensive seismic activity are designed for safety in the event of such a natural disaster. The NRC requires that safety-significant structures, systems, and components be designed to take into account the most severe natural phenomena historically reported for the site and surrounding area.

In addition to the Diablo Canyon plant, the NRC is also monitoring the San Onofre nuclear power plant, the Humboldt Bay spent fuel storage site and NRC-regulated nuclear materials sites in Hawaii and Alaska to name a few. Site personnel have informed the NRC they are prepared for possible tsunami effects.

###

News releases are available through a free *listserv* subscription at the following Web address: <http://www.nrc.gov/public-involve/listserver.html>. The NRC homepage at www.nrc.gov also offers a SUBSCRIBE link. E-mail notifications are sent to subscribers when news releases are posted to NRC's Web site.

CZ 1208 of 2042

From: LIA01 Hoc
Sent: Friday, March 11, 2011 11:45 AM
To: LIA11 Hoc
Subject: FW: Japan Earthquake and Tsunami - 11 Mar 2011

Categories: FOIA

From: Temple, Jeffrey
Sent: Friday, March 11, 2011 11:35 AM
To: Wright, Ned; LIA01 Hoc; Wright, Lisa (Gibney)
Subject: FW: Japan Earthquake and Tsunami - 11 Mar 2011

Contact info for NOC/CAT

From: Scannelli, Vincent [mailto:Vincent.Scannelli@dhs.gov]
Sent: Friday, March 11, 2011 11:31 AM
To: Temple, Jeffrey
Cc: Brumbaugh, Scott; Gott, William; St Hilaire, James; Bogosian, Vicky; O'Day, Kevin; Triner, Donald; Gramlick, Carl; Lipka, Daniel; Tanner, James
Subject: Japan Earthquake and Tsunami - 11 Mar 2011

Jeff,

It was great talking with to initiate and formalize coordination between the DHS Crisis Action and NRC Operations.....As discussed, please forward any NRC Sitreps and/or other reports related to this event to: ops.cat@hq.dhs.gov . Also, please provide contact information for you're DHS CAT Liaison Duty Officer. At this time, we do not foresee needing an assigned LNO on-site.

Thanks

R,

Vince Scannelli
OPS Chief
DHS CAT
202-282-9682/9675/9295

Vincent J. Scannelli
Acting Deputy Branch Chief,
Future Operations
DHS Operations Coordination & Planning
(O) 202-447-4333
(P) 888-203-0379
(BB) (b)(6)
vincent.scannelli@dhs.gov
vincent.scannelli@dhs.sgov.gov
vsannelli@dhs.ic.gov

From: Brumbaugh, Scott
Sent: Wednesday, February 09, 2011 4:01 PM
To: Gott, William
Cc: Temple, Jeffrey; Marshall, Jane; Scannelli, Vincent; Brumbaugh, Scott; Gramlick, Carl
Subject: RE: NRC and NOC collaboration

Good afternoon, Coordination like this is critical, thanks for reaching out. So you are not bounced around, I will be the POC for now but long term there will be someone from the larger OPS. I CC'd Vince Scannelli (Deputy Future Ops) he may be able to help us make the right connections for play in the CAT when it stands up during such an event.

I'm the POC until we have a clean hand off.
Scott

Scott A. Brumbaugh
Operations Officer
National Operations Center (NOC)
Office of Operations Coordination and Planning
Department of Homeland Security
Desk: 202.447.3256
Cell: (b)(6)

From: prvs=0149b8ce3=William.Gott@nrc.gov [mailto:prvs=0149b8ce3=William.Gott@nrc.gov] **On Behalf Of** Gott, William
Sent: Wednesday, February 09, 2011 3:38 PM
To: Gramlick, Carl; Brumbaugh, Scott
Cc: Temple, Jeffrey; Marshall, Jane
Subject: RE: NRC and NOC collaboration

Scott,

I asked Carl for help on an issue we are working through here at the Nuclear Regulatory Commission(NRC). Not to be confused with the National Response Center. In the past I coordinated with Don Trinner to determine the proper liaisons for our two agencies during a nuclear power plant emergency. We

(b)(5)

Bottom line: I need a point of contact for our Liaison Program Manager, Jeff Temple.

(b)(5)

Can you provide a POC if you are not it.

My number is listed below or you can call Jeff Temple at 301-415-0156.

Thank you and Carl for your help.

Bill Gott
Operations Branch Chief
(301) 415-7036 (Office)
(b)(6) (Cell)

william.gott@nrc.gov

From: Gramlick, Carl [mailto:Carl.Gramlick@dhs.gov]
Sent: Wednesday, February 09, 2011 3:08 PM
To: Gott, William; Brumbaugh, Scott
Subject: NRC and NOC collaboration

Bill,
Please contact Scott Brumbaugh and together we can work out a way to collaborate.

Carl

Carl S. Gramlick
Director, National Operations Center
Operations Coordination and Planning
Department of Homeland Security
Desk: (202) 282-8349
Bb: (b)(6)

From: Gelman, Jeffrey D. (b)(6)
Sent: Wednesday, April 20, 2011 7:33 PM
To: Gelman, Jeffrey D.; 'Timbie, James P'; 'Van Diepen, Vann H'; 'Connery, Joyce'; (b)(6); 'Anne.Harrington@NNSA.Doe.Gov'; Coyle, Phil; Fetter, Steve; Peroff, Kathleen; Ericsson, Sally C.; 'nicole.lamb-hale@trade.gov'; 'Peter.Lyons@Nuclear.Energy.gov'; 'cekutarf@state.gov'; Doane, Margaret; (b)(6); Haney, Catherine; Klay, Benjamin W.; 'john.schuster@exim.gov'; 'Motiwala, Mohammed'; Szymanski, John; 'Stratford, Richard J'; Mertens, Richard A.; McDonald, Christine; Whitney, Mark; Bordoff, Jason E.; Henderson, Karen; 'mark.heil@do.treas.gov'; 'Kange@state.gov'; 'Gorn, Janet M'; Wolfsthal, Jon B.; (b)(6); 'david.heyman@dhs.gov'; Zichal, Heather R.; Utech, Dan G.; 'O'BrienVJ@state.gov'; 'Rodgers, John R'; 'GalbraithJD@state.gov'; 'stukalinA@state.gov'; 'wardenJR@state.gov'; 'maurabb@ucia.gov'; Tsou, Leslie; 'Sarah Lopp'
Cc: Holgate, Laura; Sweetnam, Glen E.; Gallagher, Shawn P.; Holmes, Angela; 'david.kincaid@trade.gov'; 'beth.urbanas@do.treas.gov'; McConville, Drew; Carroll, J. Kevin; Matthews, Sonyia; (b)(6)
Subject: RE: IPC Invitation, 4/21 12:30-2pm in EEOB 445
Attachments: NSC interface NRC-NNSA-4 19 11FINAL.DOCX

Attached is a paper relating to IAEA management of the safety-security interface which will be discussed under the second agenda item for the April 21 Nuclear Energy IPC.

Thanks

From: Gelman, Jeffrey D.
Sent: Friday, April 15, 2011 9:18 AM
To: Gelman, Jeffrey D.; 'Timbie, James P'; 'Van Diepen, Vann H'; 'Connery, Joyce'; (b)(6); 'Anne.Harrington@NNSA.Doe.Gov'; Coyle, Phil; Fetter, Steve; Peroff, Kathleen; Ericsson, Sally C.; 'nicole.lamb-hale@trade.gov'; 'Peter.Lyons@Nuclear.Energy.gov'; 'cekutarf@state.gov'; 'Margie Doane (margaret.doane@nrc.gov)'; (b)(6); 'catherine.haney@nrc.gov'; Klay, Benjamin W.; 'john.schuster@exim.gov'; 'Motiwala, Mohammed'; Szymanski, John; 'Stratford, Richard J'; Mertens, Richard A.; McDonald, Christine; Whitney, Mark; Bordoff, Jason E.; Henderson, Karen; 'Mary.Saunders@trade.gov'; 'mark.heil@do.treas.gov'; 'Kange@state.gov'; 'Gorn, Janet M'; Wolfsthal, Jon B.; (b)(6); 'david.heyman@dhs.gov'; Zichal, Heather R.; Utech, Dan G.; 'O'BrienVJ@state.gov'; 'Rodgers, John R'; 'GalbraithJD@state.gov'; 'stukalinA@state.gov'; 'wardenJR@state.gov'; 'maurabb@ucia.gov'; Tsou, Leslie
Cc: Holgate, Laura; Sweetnam, Glen E.; Gallagher, Shawn P.; Holmes, Angela; 'david.kincaid@trade.gov'; 'beth.urbanas@do.treas.gov'; McConville, Drew; Carroll, J. Kevin; Matthews, Sonyia; (b)(6)
Subject: IPC Invitation, 4/21 12:30-2pm in EEOB 445

Dear Nuclear Energy IPC participants,

We will hold the next meeting of the Nuclear Energy IPC on April 21, 12:30 – 2, in EEOB 445. The agenda will cover two items, each of which may require slightly different participation from your agency from previous discussions, so please help us make sure this message goes to those in your agency with responsibility for these topics.

1.

Outside of Scope

(b)(6), Outside of Scope

2. International Nuclear Safety: In the aftermath of Fukushima, the pace and level of international activities related to nuclear safety is increasing. We will use this meeting to create an inventory of meetings and decision points coming up over the course of the year, and to identify issues for USG priority attention.

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This meeting will take place at the SECRET level – if this poses difficulties, please let us know.

To RSVP for this meeting please send Jeff Gelman ([redacted (b)(6)]) the full name, date of birth, social security number, gender, country of birth, and city and state of residence of everyone attending by noon on 4/20.

Many thanks,

Laura Holgate
Glen Sweetnam

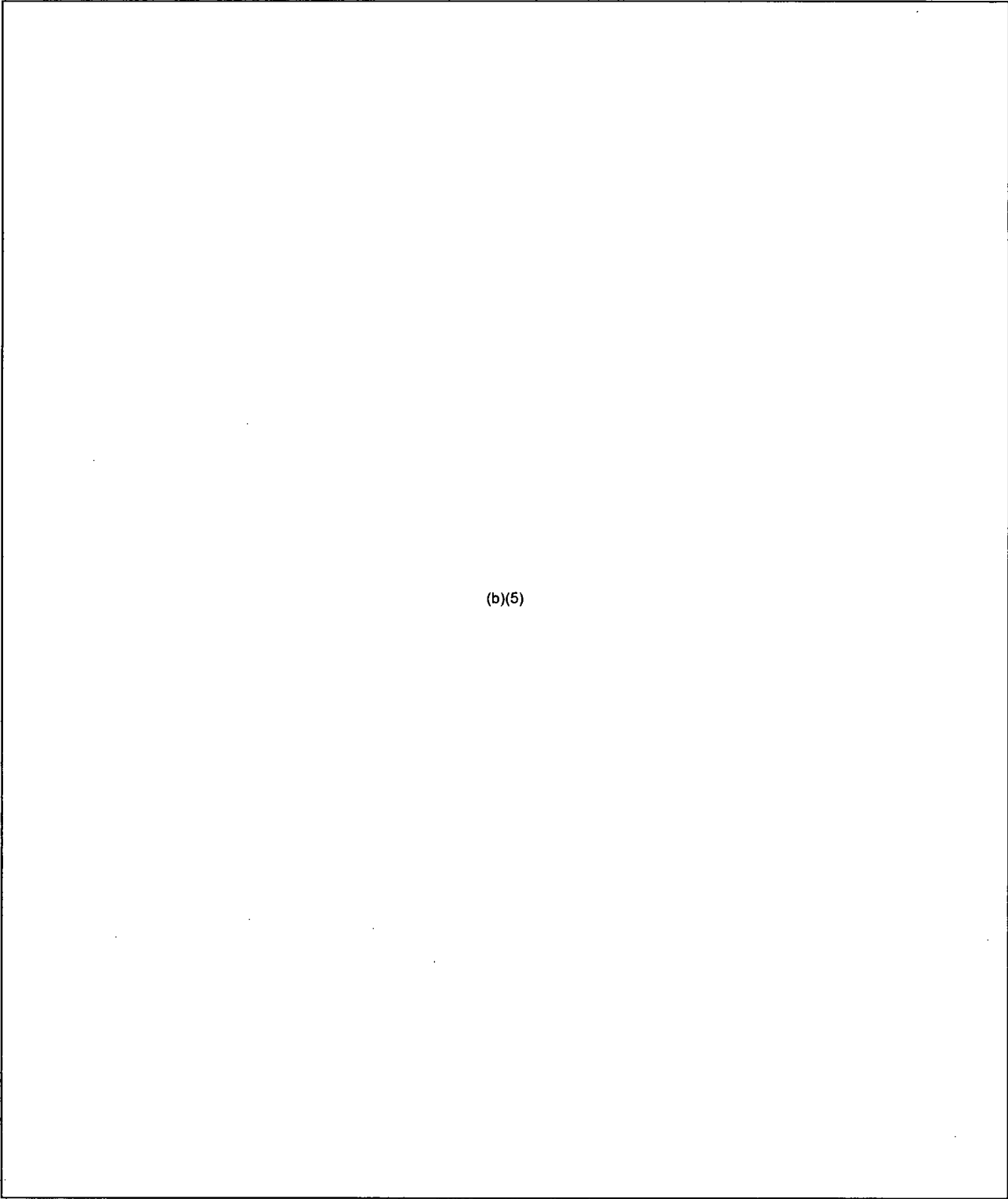
Outside of Scope

Outside of Scope

Outside of Scope

~~Official Use Only~~

**IPC Meeting
April 21, 2011
12:30-2:00pm**



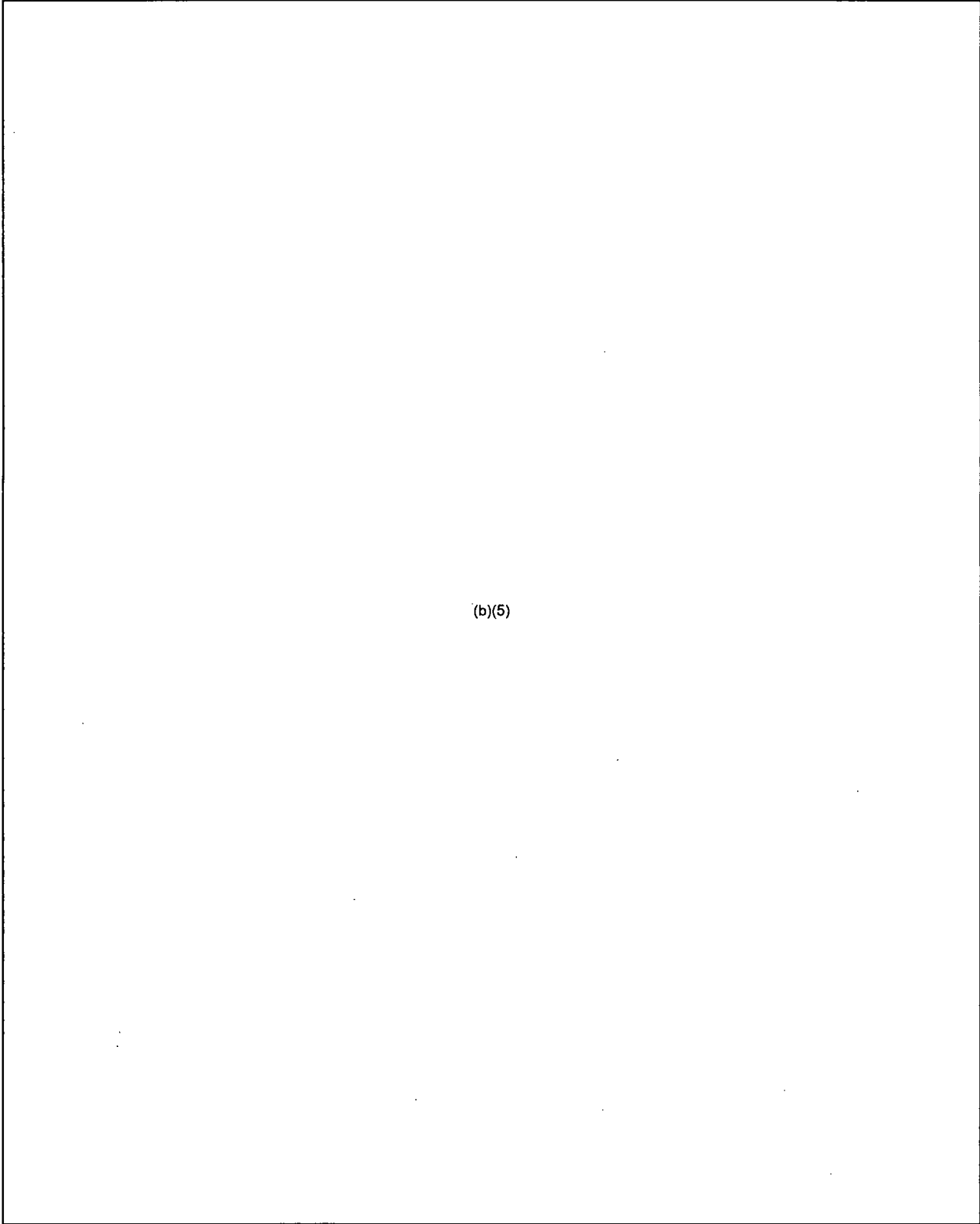
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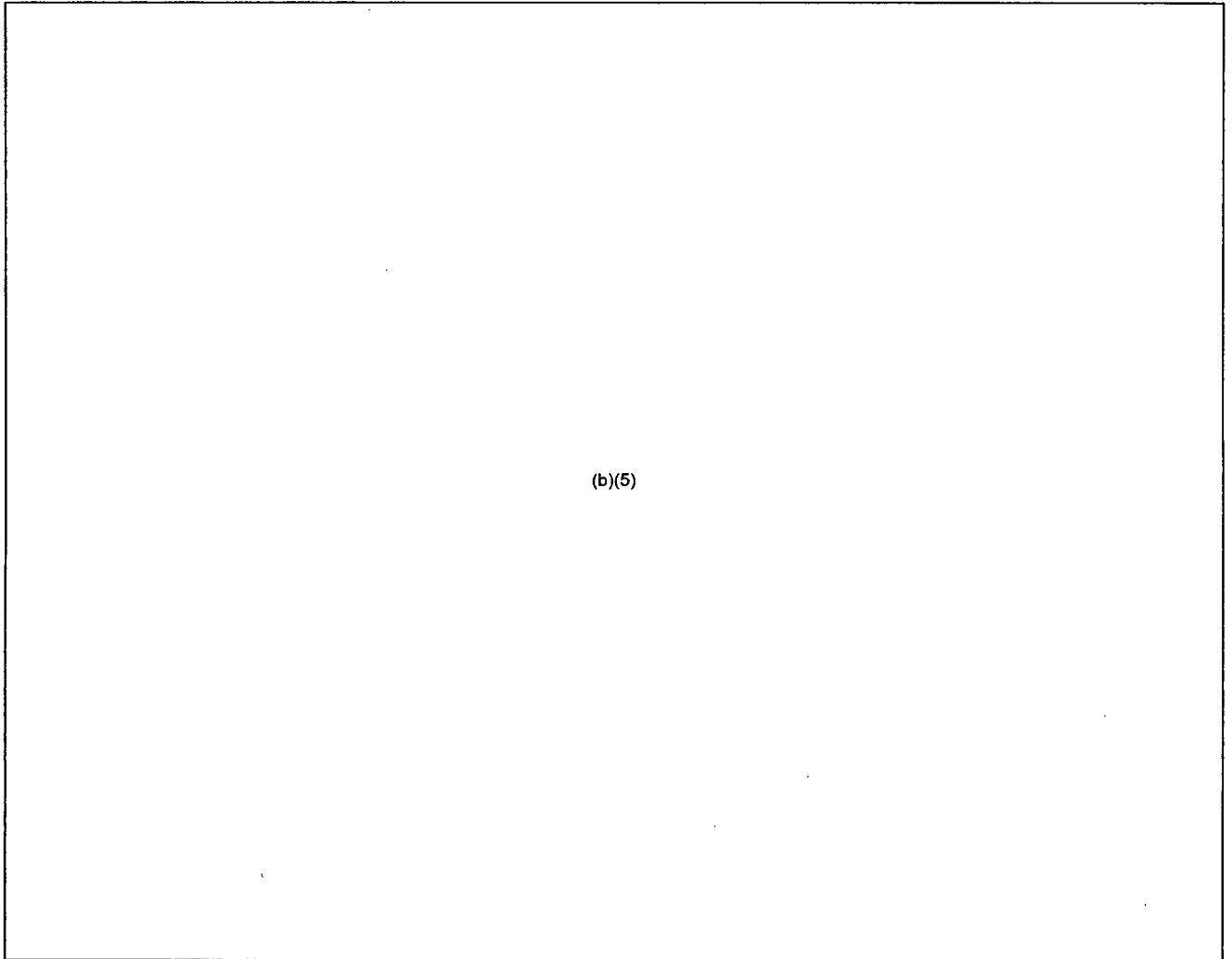


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From: Mamish, Nader
Sent: Wednesday, April 20, 2011 5:00 PM
To: Ramsey, Jack; Doane, Margaret
Cc: Dembek, Stephen; Abrams, Charlotte; Owens, Janice; Henderson, Karen; Fragoyannis, Nancy
Subject: RE: Revision - Paper on Fukushima Long-Term International Engagements

Thanks, Jack!

For path forward, I suggest that as soon Margie reviews and we incorporate her comments, we'll share it w/Muessle and Dyer for their comments.

-----Original Message-----

From: Ramsey, Jack
Sent: Wednesday, April 20, 2011 4:34 PM
To: Doane, Margaret; Mamish, Nader
Cc: Dembek, Stephen; Abrams, Charlotte; Owens, Janice; Henderson, Karen; Fragoyannis, Nancy
Subject: Revision - Paper on Fukushima Long-Term International Engagements

Margie/Nader,

I've gotten very good comments and feedback on my initial draft of the subject paper. I've incorporated all these comments into a revision version. This version is attached.

I'd welcome additional feedback on both the paper itself and the path forward.

Jack

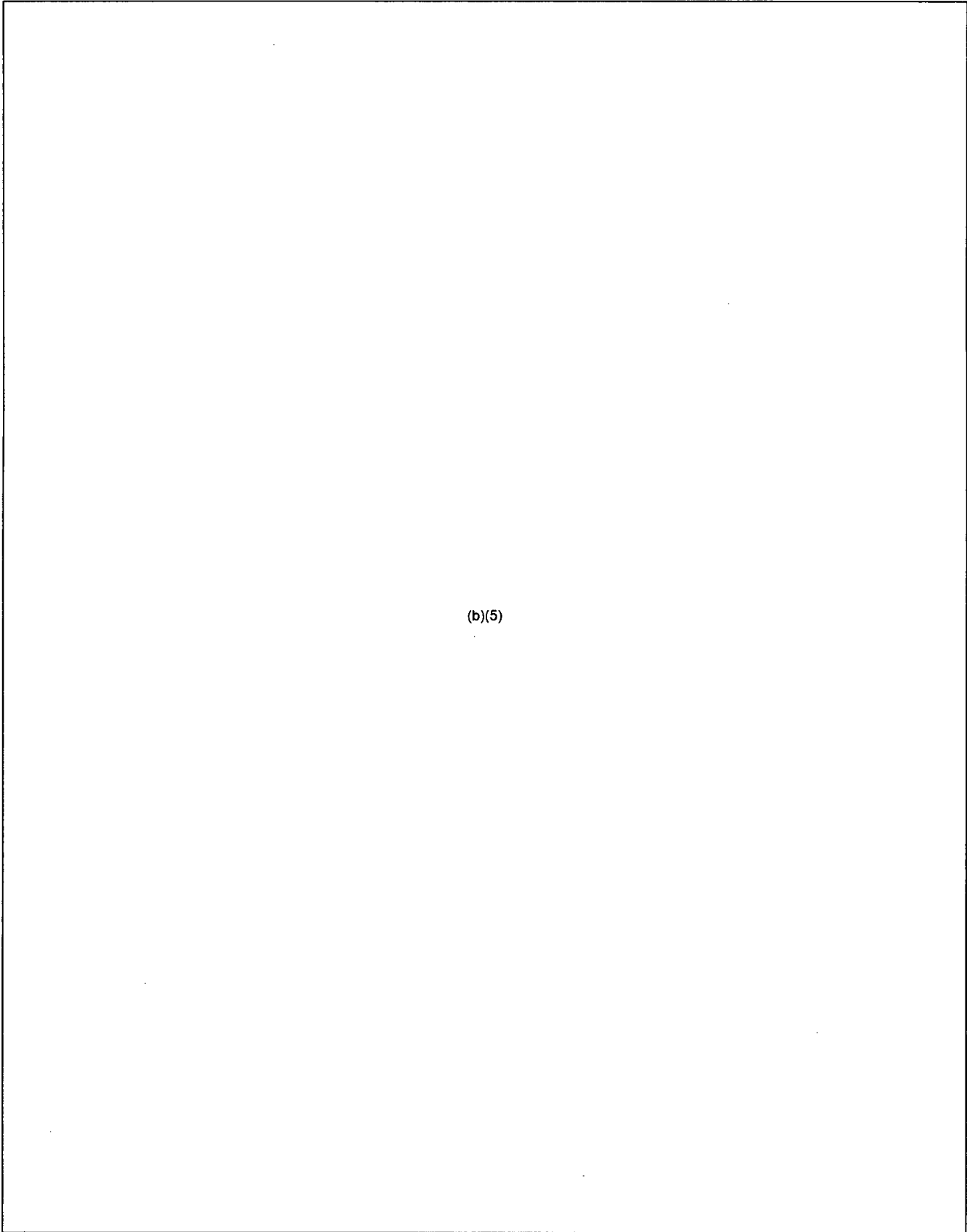
FOR:

FROM: R.W. Borchardt
Executive Director for Operations

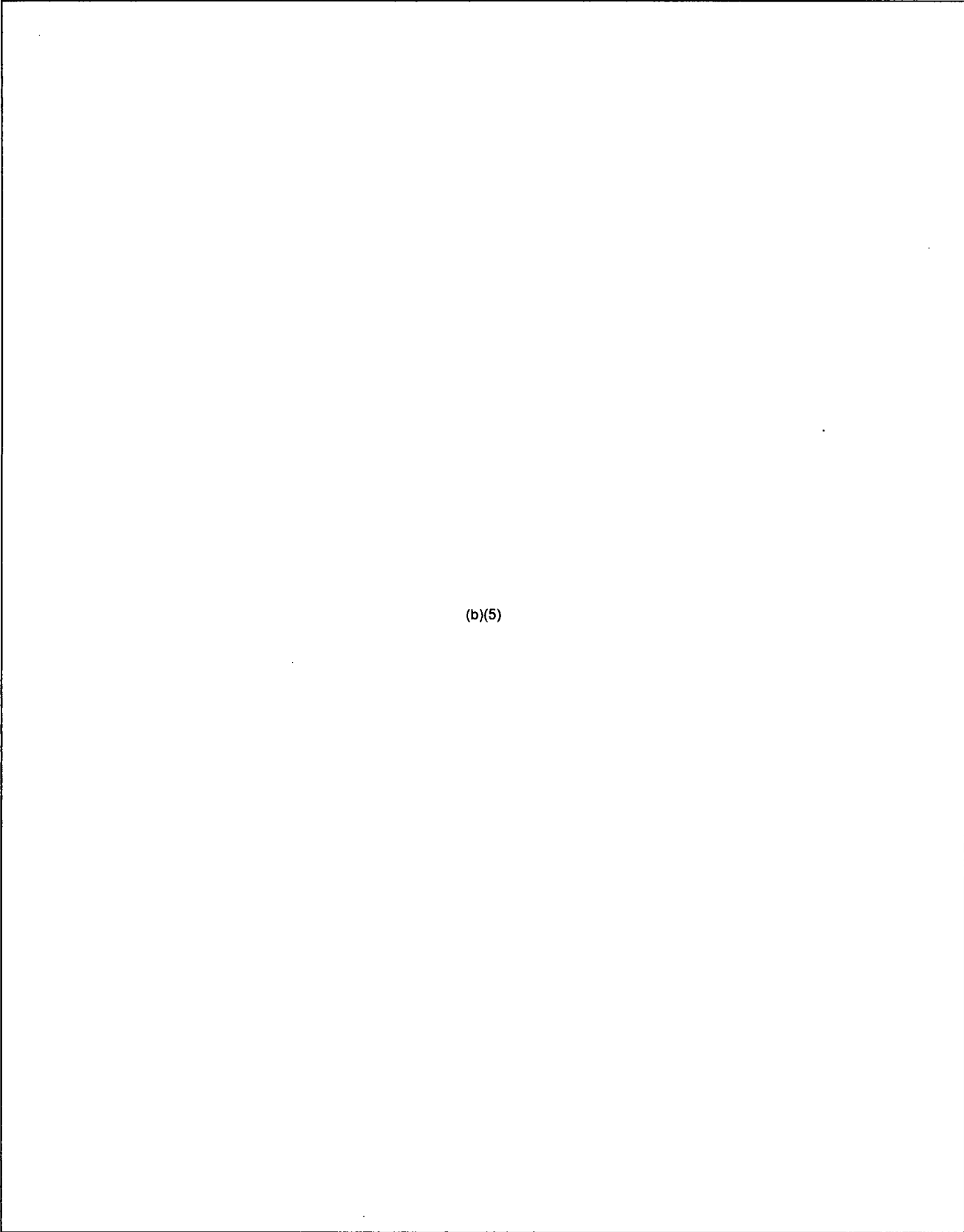
Margaret M. Doane, Director
Office of international Programs

SUBJECT: FUKUSHIMA LONG-TERM INTERNATIONAL ENGAGEMENTS

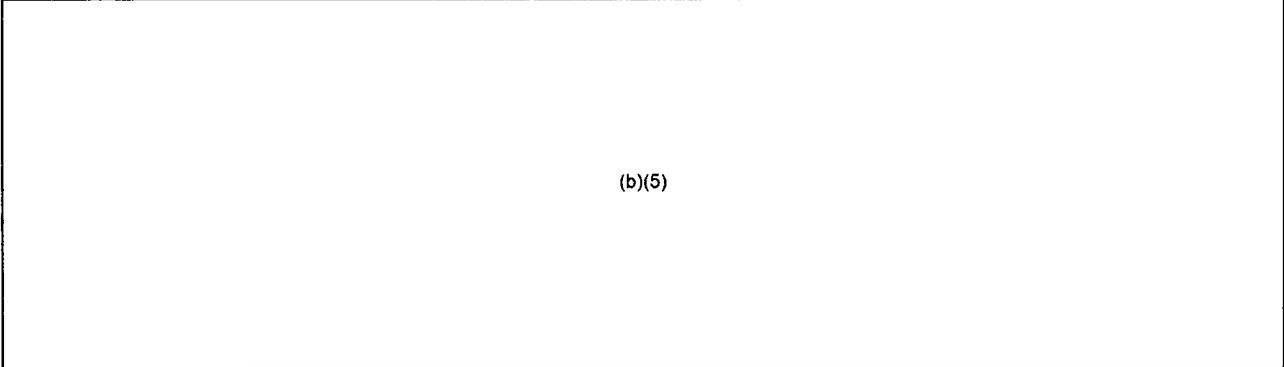
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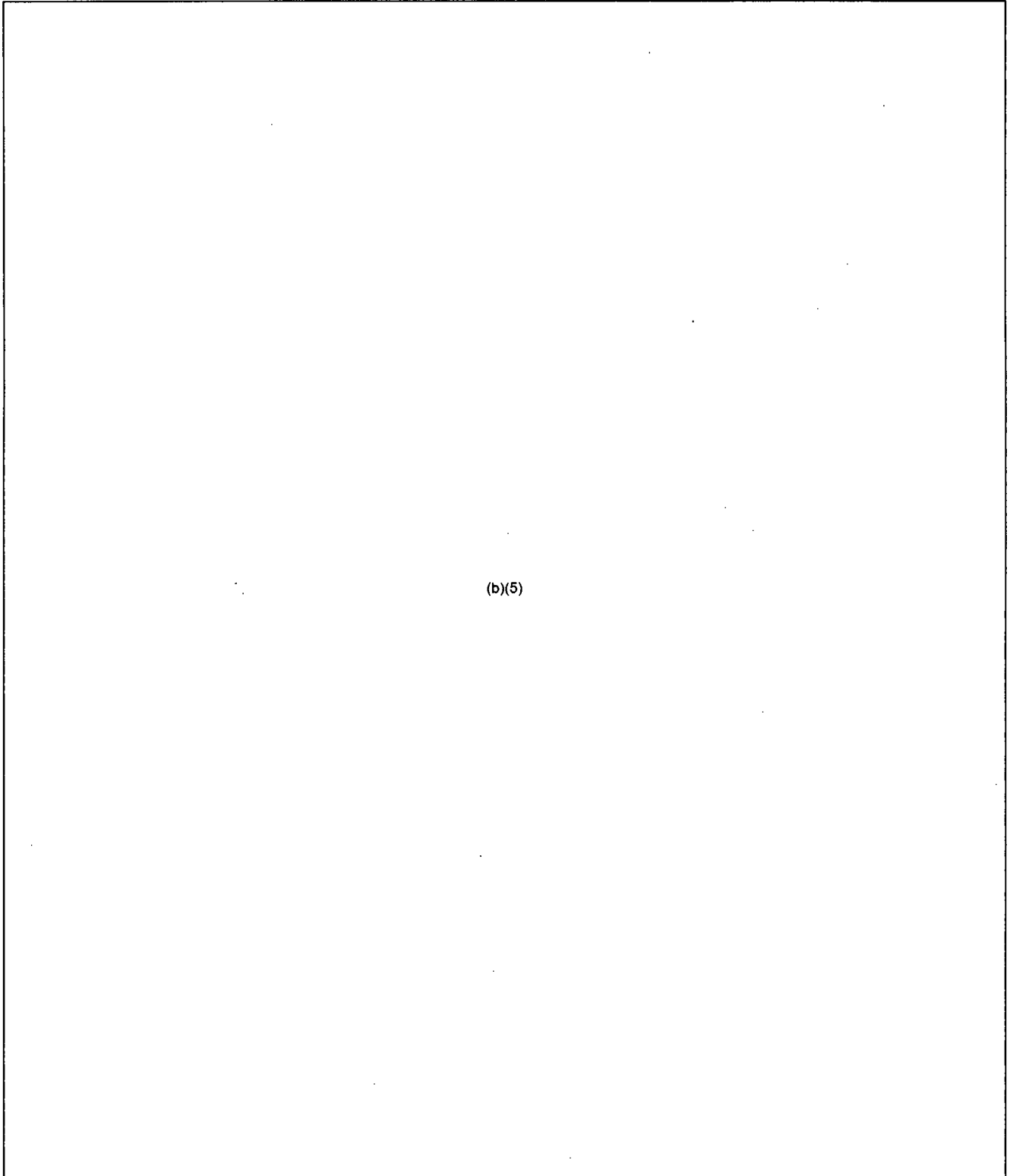


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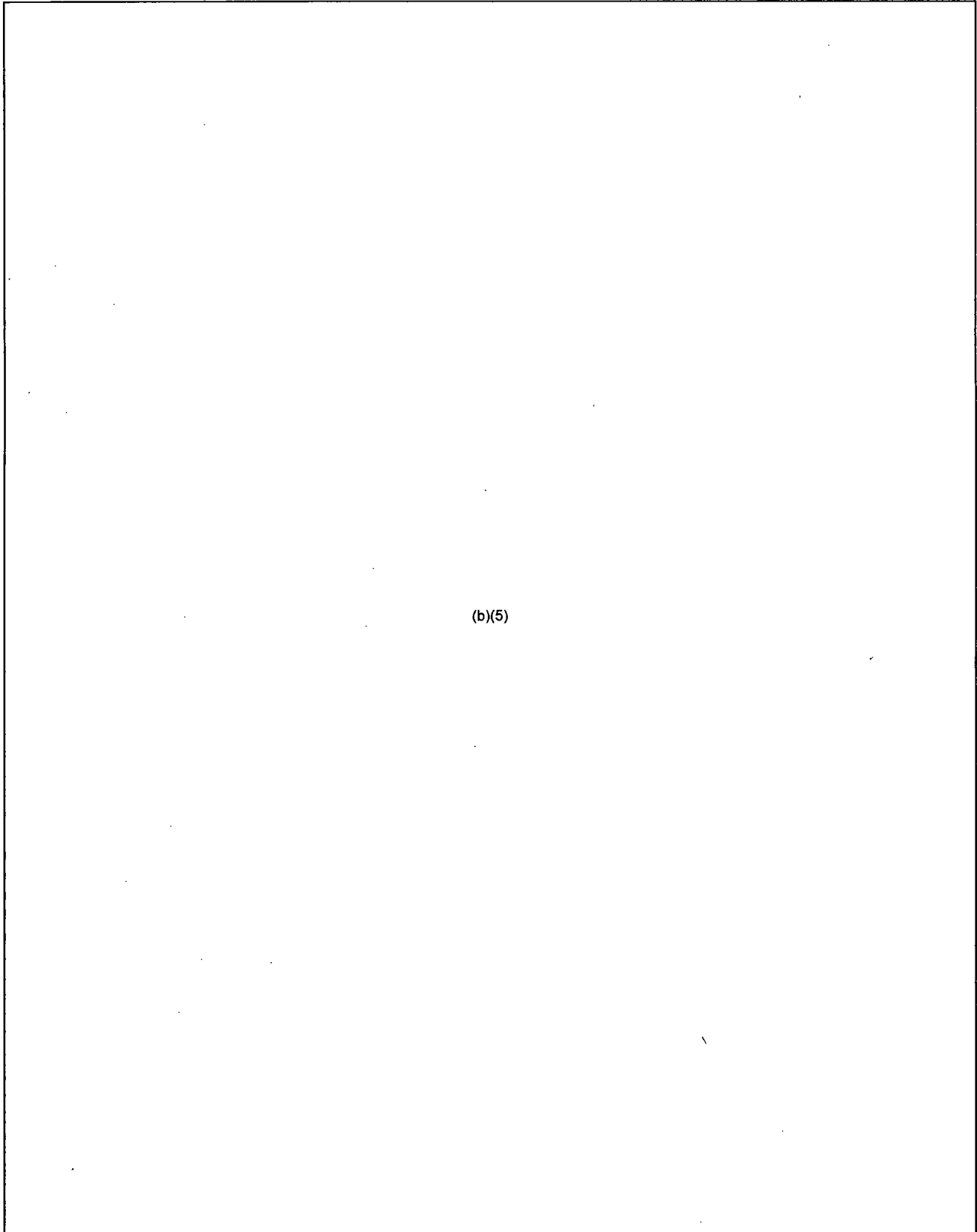


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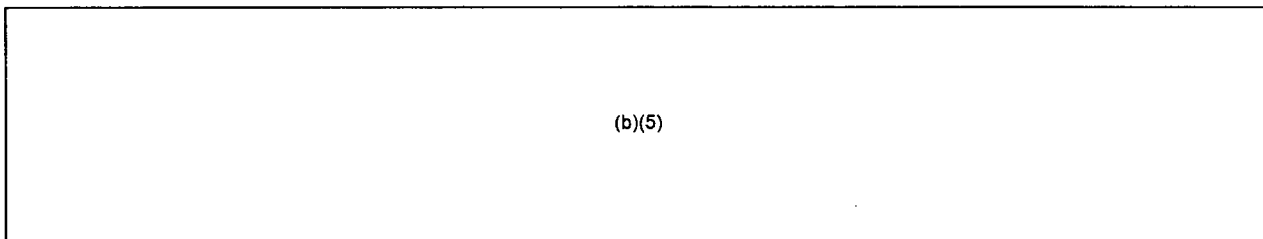
[Signed]



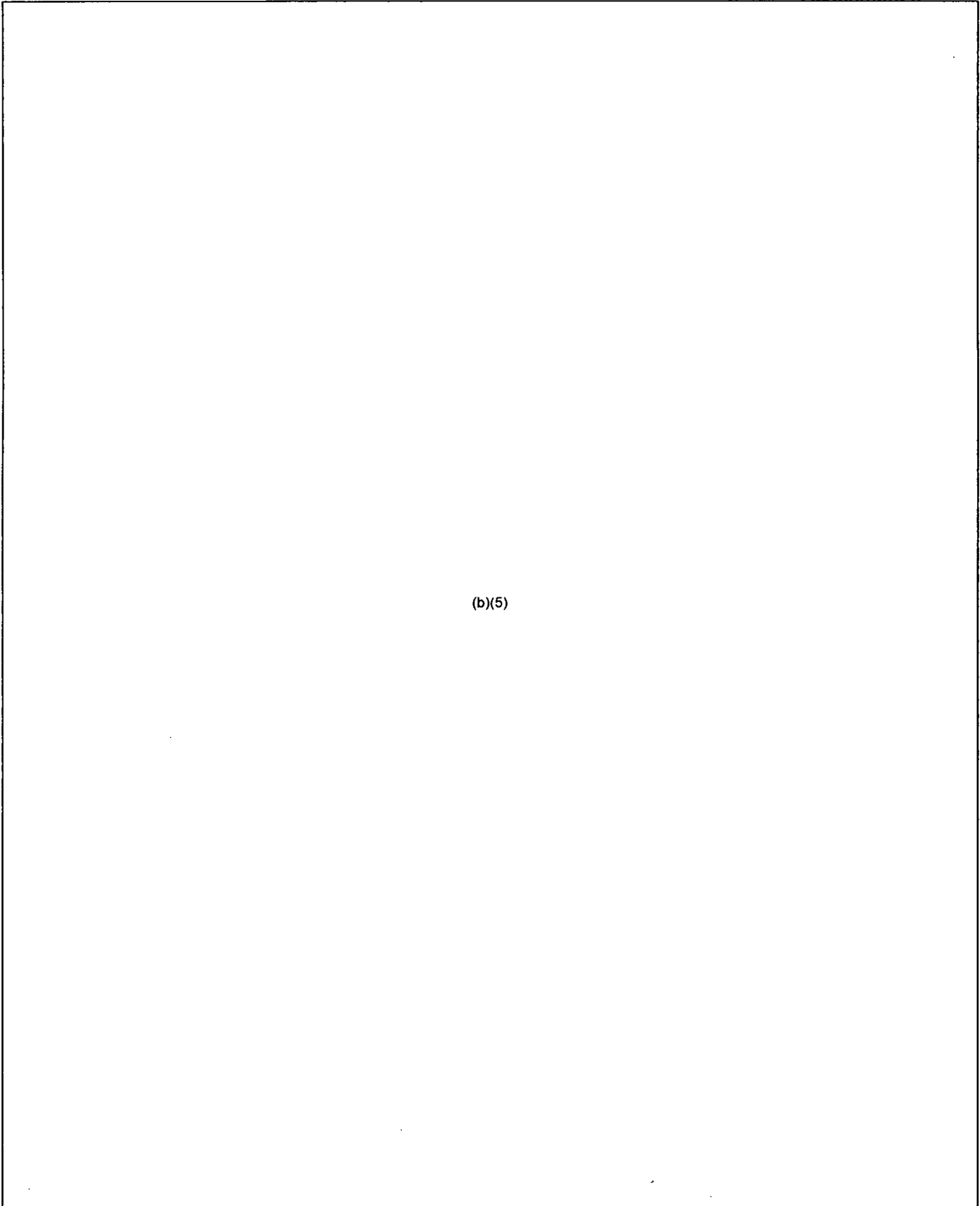
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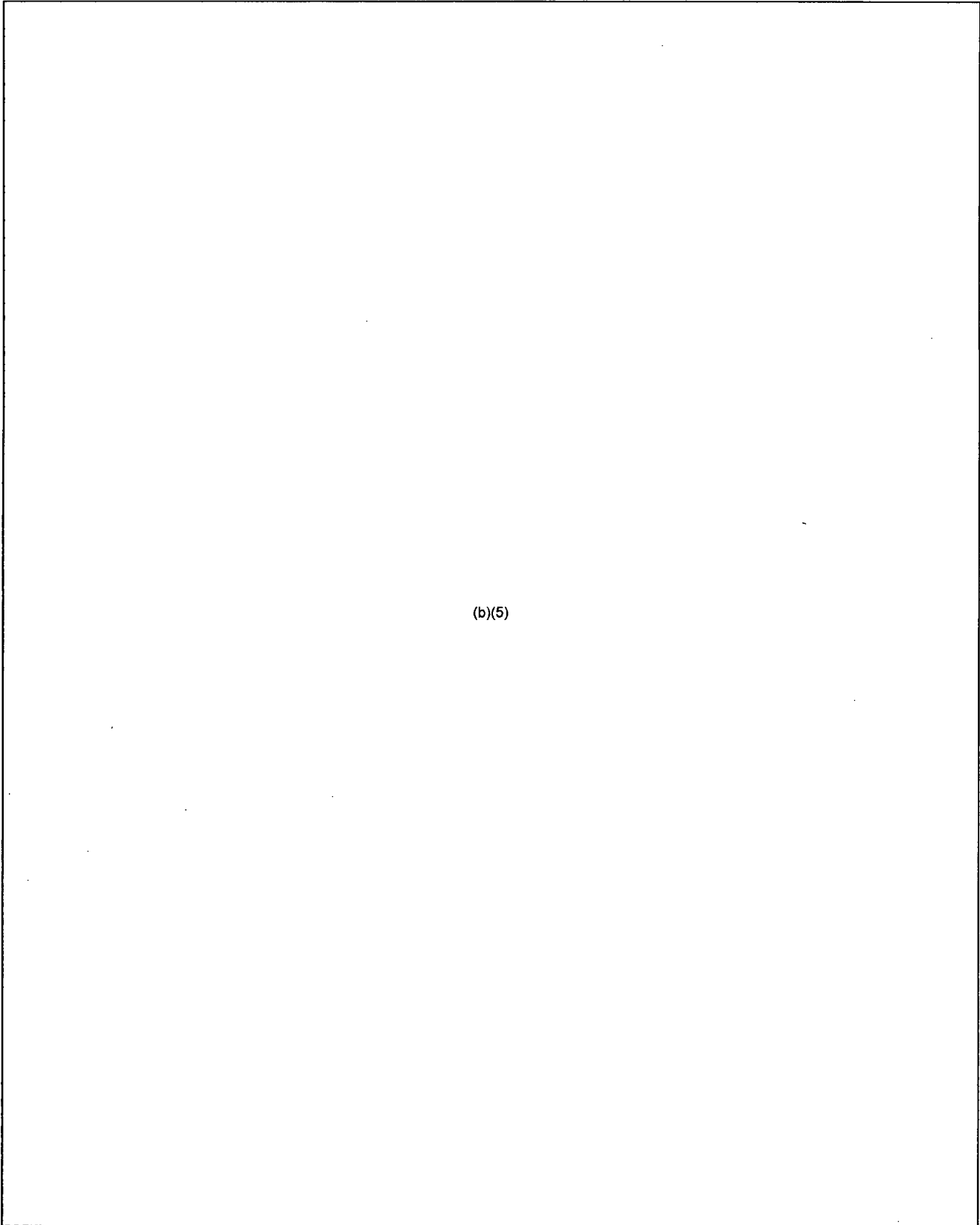
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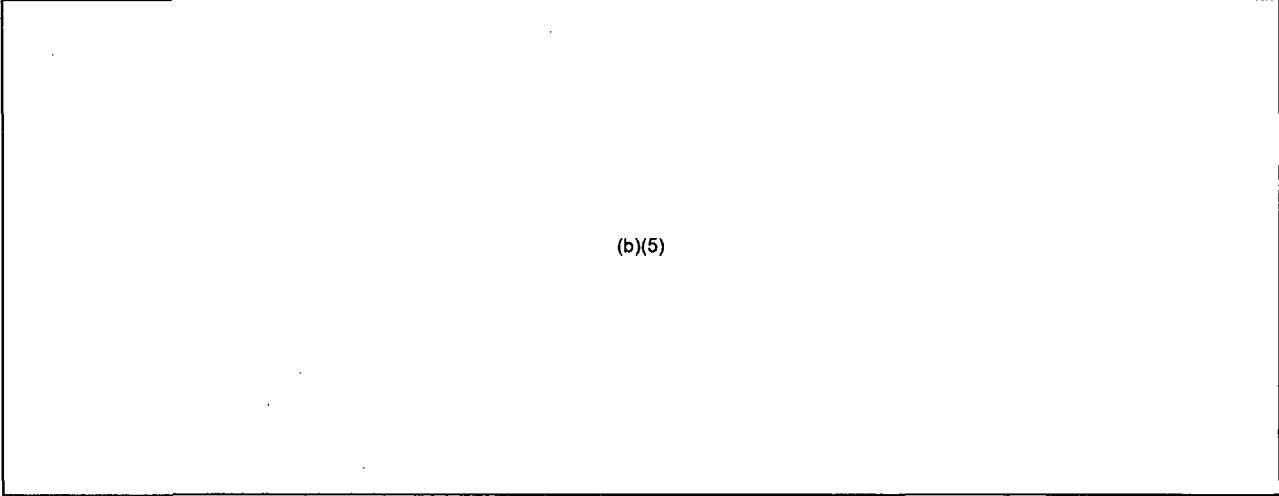
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(b)(5)



(b)(5)



From: Fragoyannis, Nancy
Sent: Wednesday, April 20, 2011 2:32 PM
To: Doane, Margaret
Subject: FW: FYI on Flory readout
Attachments: CNS Bilateral Reporting Cable.docx

Importance: High

Do you want me to send to everyone or hold off?

From: Schwartzman, Jennifer
Sent: Tuesday, April 19, 2011 4:38 PM
To: Fragoyannis, Nancy
Subject: RE: FYI on Flory readout

This is what I sent to Mark incorporating OCM edits. The true "final" will be when it is issued from UNVIE. They may make some changes.

From: Fragoyannis, Nancy
Sent: Tuesday, April 19, 2011 4:18 PM
To: Schwartzman, Jennifer
Subject: RE: FYI on Flory readout

Do you have the final?

From: Schwartzman, Jennifer
Sent: Tuesday, April 19, 2011 3:11 PM
To: Fragoyannis, Nancy
Subject: FYI on Flory readout

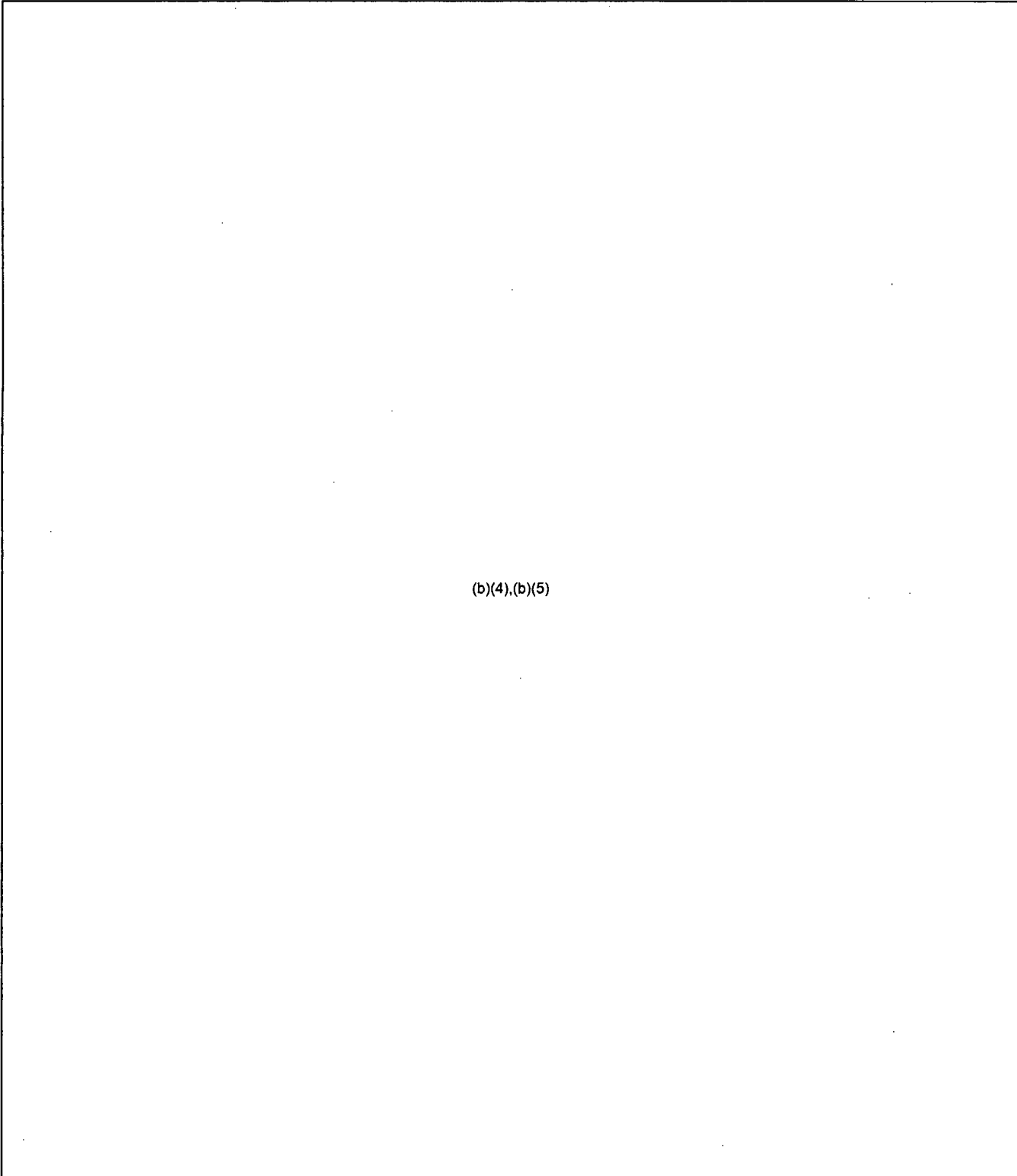
(b)(5)

I've sent the cable in its entirety to Mark for UNVIE to issue.

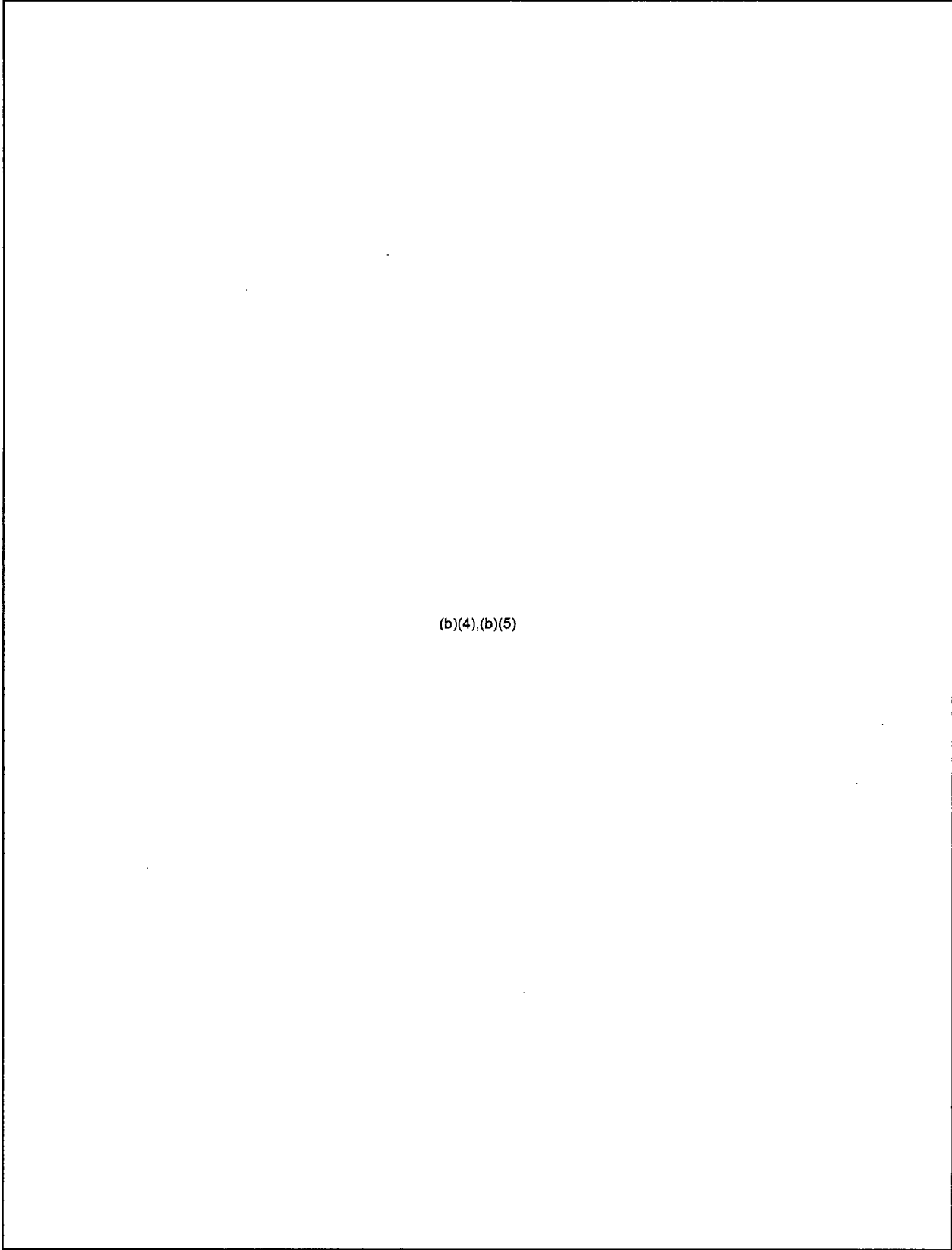
Jennifer Schwartzman Holzman
Office of International Programs
U.S. Nuclear Regulatory Commission
+1-301-415-2317
jennifer.schwartzman@nrc.gov

NOTE: Please note new email address above. My old email address, jks1@nrc.gov, will no longer work on this system. Please update your contact lists accordingly.

Reporting Cable for NRC's Bilateral Meetings during the Fifth
Review Meeting for the Convention on Nuclear Safety



(b)(4),(b)(5)

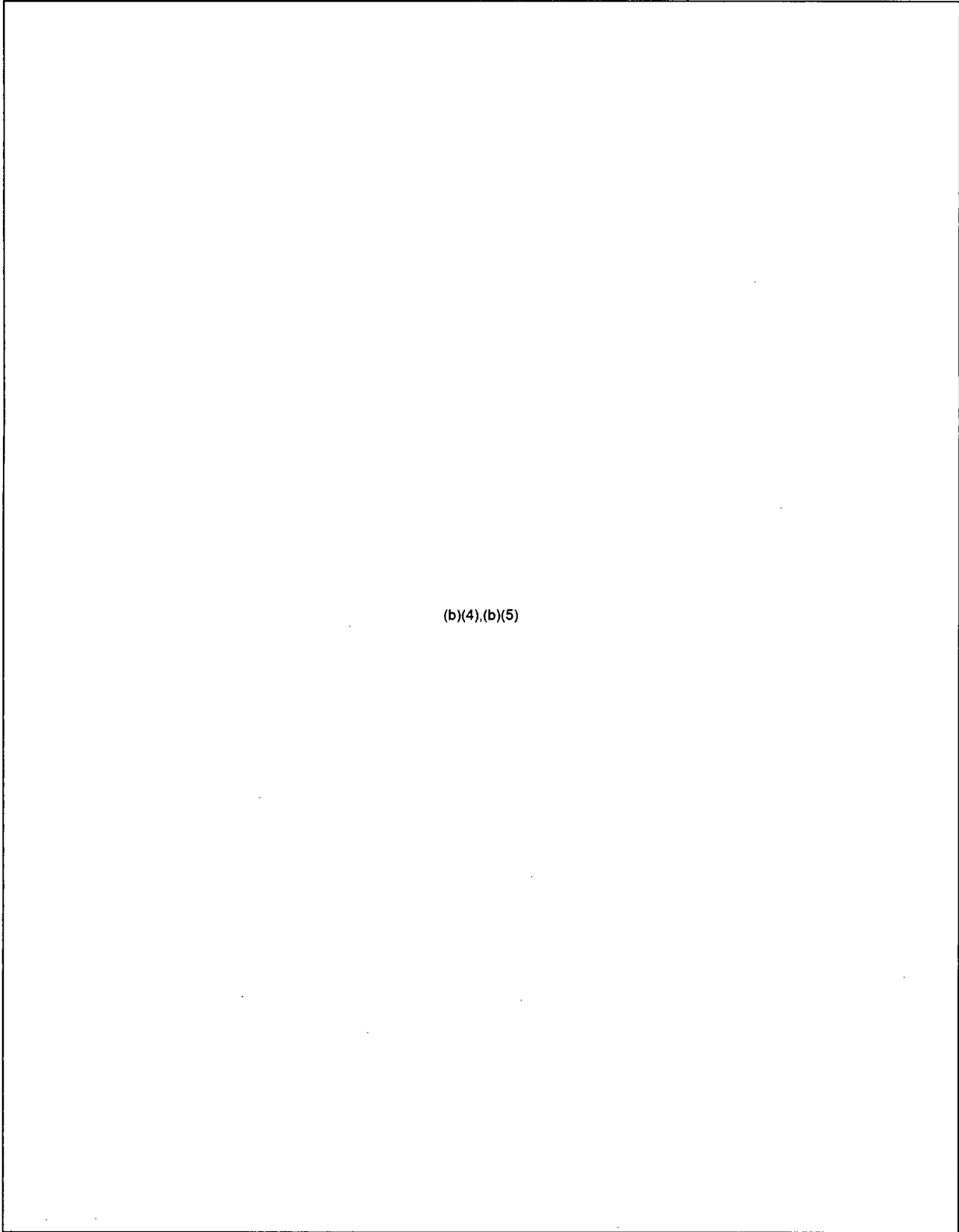


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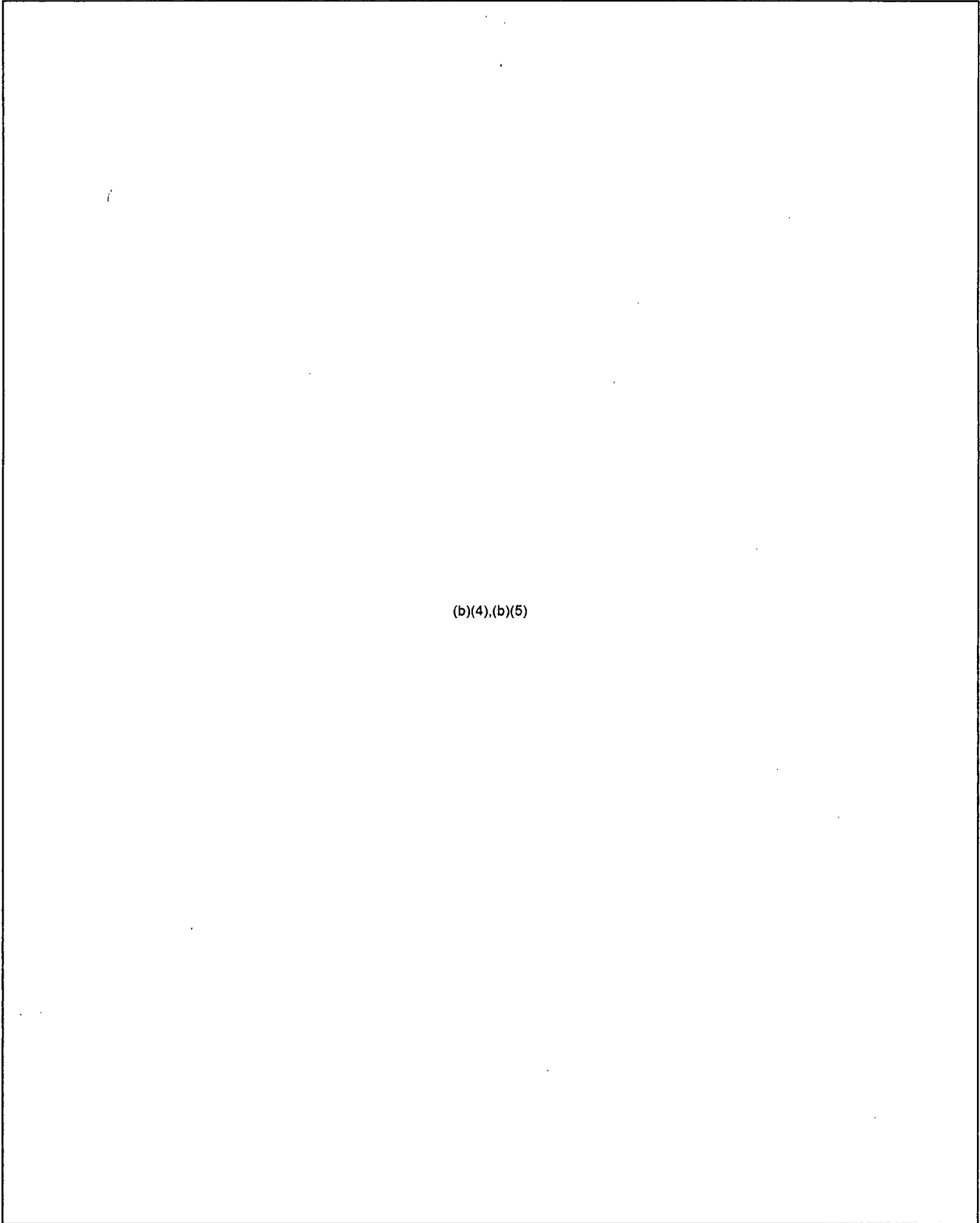


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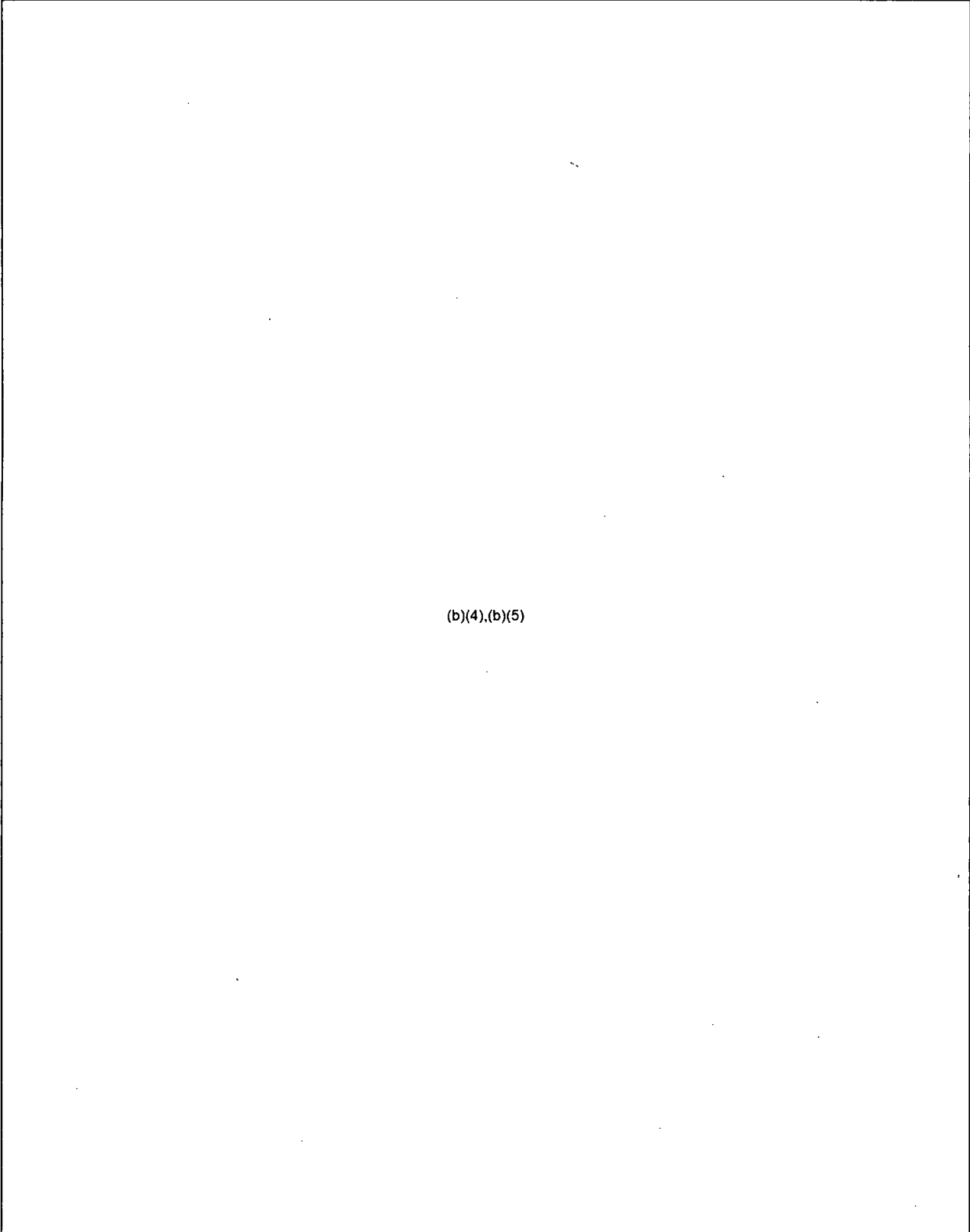
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(b)(4),(b)(5)



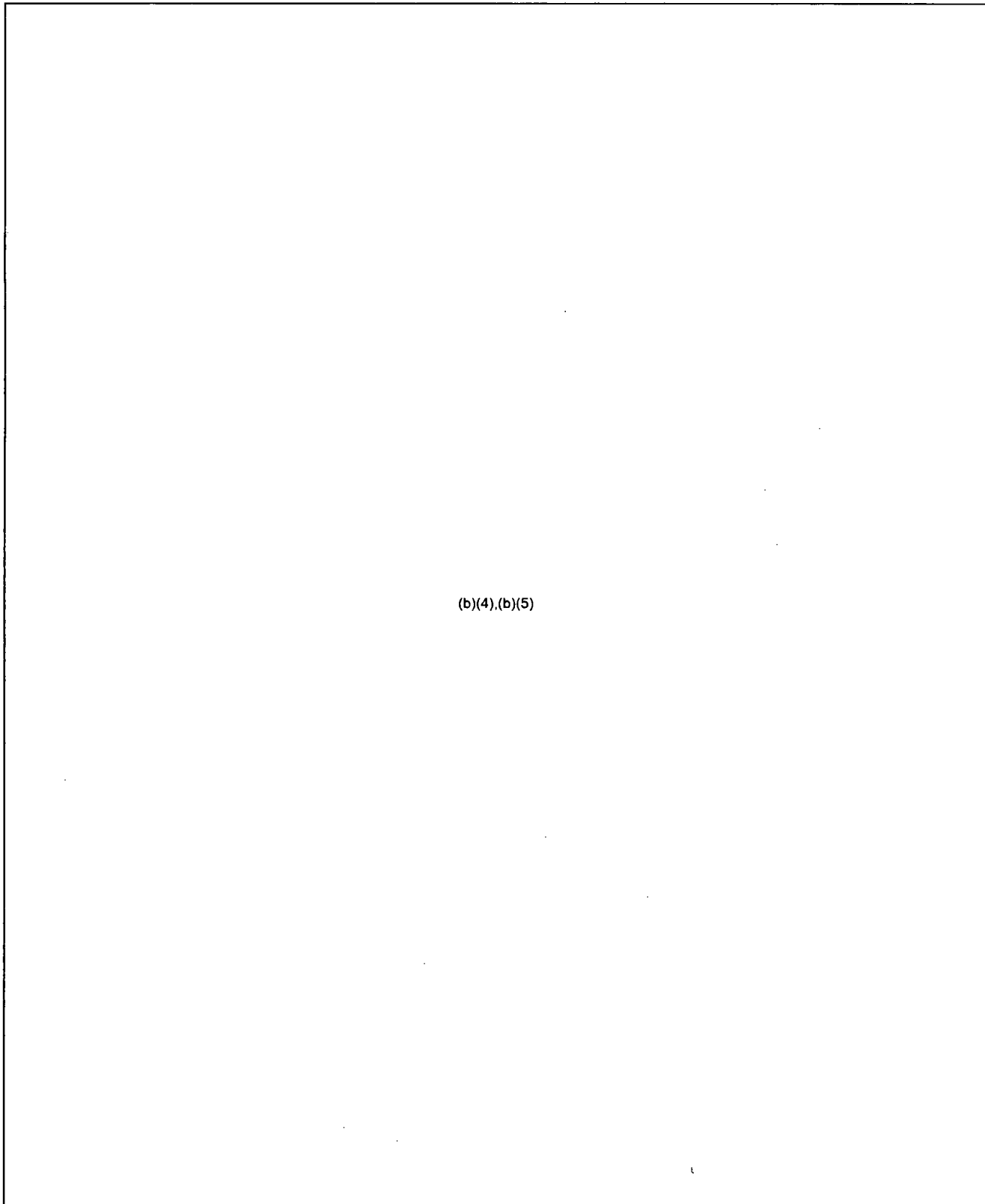
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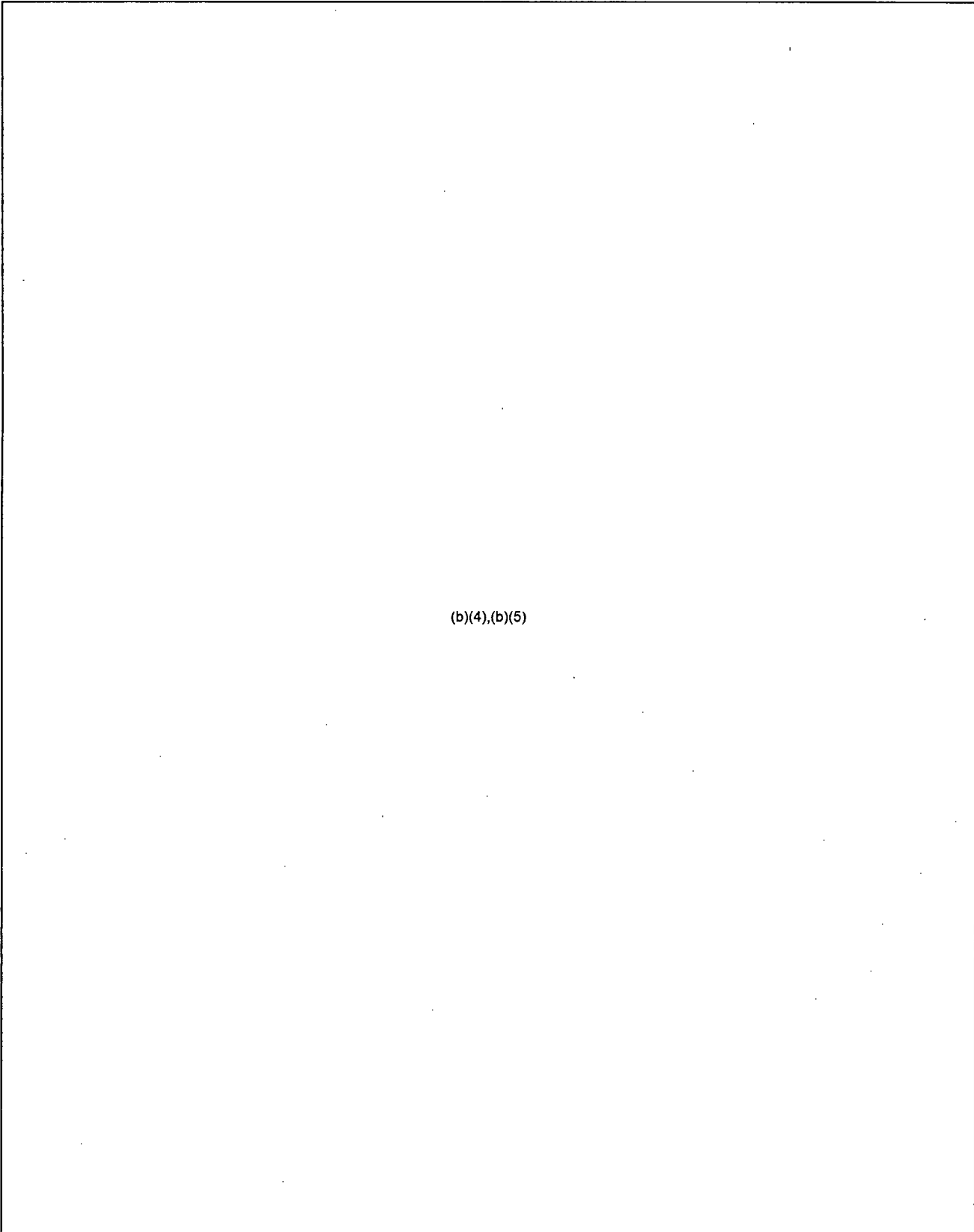
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(b)(4),(b)(5)



(b)(4),(b)(5)

(b)(4),(b)(5)

(b)(4),(b)(5)

From: Abrams, Charlotte
Sent: Wednesday, April 20, 2011 1:54 PM
To: Dembek, Stephen; Ramsey, Jack; Doane, Margaret; Mamish, Nader; Owens, Janice; Henderson, Karen; Fragoyannis, Nancy
Subject: RE: Draft SECY on Fukushima Long-Term International Engagements
Attachments: Comm Paper on Fukushima Long-Term Rev 2 Steve D comments 4-20-11.docx

Jack - I took Steve's version with his comments and added my comments. See attached.

-----Original Message-----

From: Dembek, Stephen
Sent: Wednesday, April 20, 2011 8:53 AM
To: Ramsey, Jack; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Owens, Janice; Henderson, Karen; Fragoyannis, Nancy
Subject: RE: Draft SECY on Fukushima Long-Term International Engagements

Jack,

I think it's very well written. I've attached my minor comments.

Steve

-----Original Message-----

From: Ramsey, Jack
Sent: Tuesday, April 19, 2011 4:47 PM
To: Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Owens, Janice; Dembek, Stephen; Henderson, Karen; Fragoyannis, Nancy
Subject: Draft SECY on Fukushima Long-Term International Engagements

All,

Attached please find, for your reading pleasure, an initial draft of a SECY paper that outlines a process and path forward for international engagements (i.e., not domestic activities) on Fukushima. There is some urgency to this, so I'd appreciate comments, thoughts, suggestions, etc. as soon as possible.

Jack

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(b)(4),(b)(5)

(b)(5)

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(b)(5)

From: Fragoyannis, Nancy
Sent: Wednesday, April 20, 2011 12:36 PM
To: Virgilio, Martin; Doane, Margaret
Cc: Schwartzman, Jennifer; Williams, Shawn; Shaffer, Mark R; Layton, Michael; Brach, Bill
Subject: FW: Paper
Attachments: NSC interface NRC-NNSA-4 19 11FINAL.docx

Attached is the final document sent to NSC for tomorrow's meeting. Let me know if you have any questions.

Nancy

From: Fragoyannis, Nancy
Sent: Wednesday, April 20, 2011 12:35 PM
To: 'Holgate, Laura'
Cc: 'Krupa, Melissa M'; 'Mentz, John W'
Subject: Paper

Hi Laura,

Attached is paper for the IPC meeting tomorrow. All three agencies (NRC, NNSA and State) have provided input. Please let me know if you have any questions.

Thanks.

Nancy

Nancy Fragoyannis
Senior Level Advisor for Nonproliferation and
International Nuclear Security
Office of International Programs
U.S. Nuclear Regulatory Commission
301-415-8464

(b)(5)

(b)(5)

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(b)(5)

(b)(5)

From: Shaffer, Mark R <ShafferMr@state.gov>
Sent: Wednesday, April 20, 2011 10:17 AM
To: Doane, Margaret
Cc: Kreuter, Jane; Mamish, Nader; Schwartzman, Jennifer
Subject: RE: Points to consider for Chairman/Ambo call...

(b)(5)

Mark

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Wednesday, April 20, 2011 3:53 PM
To: Shaffer, Mark R
Cc: Kreuter, Jane; Mamish, Nader; Schwartzman, Jennifer
Subject: RE: Points to consider for Chairman/Ambo call...

Hi Mark,

(b)(5)

Anything else you picked up?

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Wednesday, April 20, 2011 7:49 AM
To: Doane, Margaret; Schwartzman, Jennifer
Cc: Kreuter, Jane; Mamish, Nader
Subject: RE: Points to consider for Chairman/Ambo call...

(b)(5)

(b)(5)

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Wednesday, April 20, 2011 1:38 PM
To: Shaffer, Mark R; Schwartzman, Jennifer
Cc: Kreuter, Jane; Mamish, Nader
Subject: Re: Points to consider for Chairman/Ambo call...

Mark

(b)(5)

(b)(5)

. Any insights?

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Schwartzman, Jennifer
Cc: Kreuter, Jane; Doane, Margaret; Mamish, Nader
Sent: Wed Apr 20 04:28:27 2011
Subject: Points to consider for Chairman/Ambo call...

(b)(5)

(b)(5)

-Mark

This email is UNCLASSIFIED.

From: Henderson, Karen
Sent: Wednesday, April 20, 2011 8:13 AM
To: Ramsey, Jack; Foggie, Kirk
Cc: Doane, Margaret; Mamish, Nader
Subject: (b)(5)

(b)(5)

Cheers,

*Karen
Dr. Karen Henderson
Senior Level Foreign Policy Advisor
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Tel: 301.415.0202
Fax: 301.415.2395
Email: Karen.Henderson@nrc.gov*

From: Wittick, Brian
Sent: Wednesday, April 20, 2011 6:16 AM
To: Wittick, Brian; Doane, Margaret; Mamish, Nader
Cc: LIA08 Hoc; LIA02 Hoc; Foggie, Kirk; Abrams, Charlotte; Emche, Danielle
Subject: RE: Read out from 4/20 meetings
Attachments: Meeting results 4-20.docx

Margie,

Attached please find the results of the Tuesday meetings.

VR/
Brian

Summary – 4/20

NISA/TEPCO Meeting

The NISA/TEPCO meeting was largely a review of plant status, which has not changed in some time. Notable issues included a statement from Nei that he is being pushed from above to

(b)(5)

Radiological Monitoring Subgroup

The subgroup, led by MEXT and DOE, is now being attended by NRC's site team PMT. (b)(5)

(b)(5)

MEXT presented their priorities and long term monitoring plan. They also indicated they are trying to better focus their efforts due to exhaustion of resources. They mentioned that they appreciate all of the aerial monitoring being done by the U.S. but noted they would prefer to not have to pay for it.

The MEXT DDG arrived an hour into the meeting and expressed interest in seawater sampling in proximity to Fukushima. He indicated that TEPCO is responsible for sampling to 15Km, MEXT is responsible for sampling to 30Km, and expressed a desire for the U.S. to pick up a sector to be responsible for sampling.

Other Activities:

Chuck Casto and METI's Mitsumata (Director of Nuclear Energy Policy Planning Division) are scheduled for lunch on Monday.

DOS – DOE legal team arrived tonight and are conferencing at 2100 for tomorrow's meeting with MOFA. Will provide a readout tomorrow.

From: Virgilio, Martin
Sent: Tuesday, April 19, 2011 9:21 PM
To: Doane, Margaret
Subject: Fw: Talking Points for the Chairman's call

Fyi

From: Casto, Chuck
To: Virgilio, Martin; Zimmerman, Roy; Reynolds, Steven
Sent: Tue Apr 19 17:53:18 2011
Subject: RE: Talking Points for the Chairman's call

It's not clear if I am too late for comments.....I was busy last night and could not get to email.

(b)(5)

Thanks, sorry if too late...

chuck

From: Virgilio, Martin
Sent: Wednesday, April 20, 2011 1:49 AM
To: Zimmerman, Roy; Casto, Chuck; Reynolds, Steven
Subject: Talking Points for the Chairman's call
Importance: High

FYI

From: Cianci, Sandra
Sent: Tuesday, April 19, 2011 12:46 PM
To: Pace, Patti
Cc: Virgilio, Martin
Subject: Talking Points for the Chairman's call
Importance: High

Patti,

Please see attachment. Thank you

Sandy Cianci

Administrative Assistant to Marty Virgilio, DEDR

Office of the Executive Director for Operations

O-17 H13

301-415-1714

sandra.cianci@nrc.gov

From: Doane, Margaret
Sent: Tuesday, April 19, 2011 5:40 PM
To: Schwartzman, Jennifer
Cc: 'ShafferMr@state.gov'
Subject: Fw: Call with Amb. Davies

We'll need to do talking points. Let's talk in the a.m.

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Doane, Margaret
To: 'ShafferMr@state.gov' <ShafferMr@state.gov>; Pace, Patti
Cc: Batkin, Joshua; Coggins, Angela; Schwartzman, Jennifer
Sent: Tue Apr 19 16:58:38 2011
Subject: Call with Amb. Davies

Hi Mark,

Chairman Jaczko would like to speak with Amb. Davies regarding the June 20 IAEA High Level Conf. on Fukushima.

(b)(5) His presence has
been requested at several International events in June.

I told him that there was a meeting with Guerero a little over a week ago, but we'd not heard anything since.

Could you please work with Patti in the Chairman's office to set up a time. I've also copied Jen.

Thanks,

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Skeen, David
Sent: Tuesday, April 19, 2011 5:18 PM
To: Doane, Margaret; Schwartzman, Jennifer
Subject: FW: President's Proposal
Attachments: Presidents_Report with new text 19 April 1330.docx

FYI – CNS President's Report mark up.

From: M.Svab@iaea.org [mailto:M.Svab@iaea.org]
Sent: Tuesday, April 19, 2011 9:01 AM
To: nnsalgj@sina.com
Cc: Borchardt, Bill; patrick.majerus@ms.etat.lu; Skeen, David; Rodriguez, Veronica; peng.jun@mep.gov.cn; atom7@pmchina.at; meng.yue@mepfeco.org.cn; jiangwei@sepa.gov.cn; L.Bevington@iaea.org; G.Caruso@iaea.org
Subject: FW: President's Proposal

Dear President Li,

Please find enclosed the last revision of President's Report for comments.

Best regards
Miroslav Svab

From: BEVINGTON, Lyndon Michael
Sent: Tuesday, 19 April 2011 13:38
To: SVAB, Miroslav
Subject: RE: President's Proposal

Dear Miro

I've inserted the new text in the section where there is an existing Heading of 'Extraordinary Meeting on Fukushima.....'.

Lyn

From: SVAB, Miroslav
Sent: Tuesday, 19 April 2011 10:59
To: BEVINGTON, Lyndon Michael
Subject: President's Proposal

Dear Lyn,

Please, find enclosed the President's Proposal for Extraordinary Meeting in 2012. It should be an Annex to the President's Report.

Best regards
Miro

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(b)(4)

(b)(4)

From: Jaczko, Gregory
Sent: Tuesday, April 19, 2011 1:10 PM
To: Doane, Margaret
Subject: roos call

I spoke with marty. Let's get that set up for this evening my time (tomorrow morning japan time)
Thanks

From: Doane, Margaret
Sent: Tuesday, April 19, 2011 12:28 PM
To: Mamish, Nader; Ramsey, Jack
Subject: FW: Revised based on OIP's good Comments

Margie

From: Virgilio, Martin
Sent: Tuesday, April 19, 2011 12:28 PM
To: Kasputys, Clare; Muessle, Mary
Cc: Dyer, Jim; Doane, Margaret
Subject: Revised based on OIP's good Comments

Bases for projected costs to NRC for 2011 and 2012 Fukushima activities – Rev 5, April 19th

(b)(5)

(b)(5)

From: Doane, Margaret
Sent: Tuesday, April 19, 2011 12:25 PM
To: Virgilio, Martin; Casto, Chuck; Zimmerman, Roy; Reynolds, Steven
Cc: Bloom, Steven; Ramsey, Jack; Henderson, Karen; Foggie, Kirk; Mamish, Nader; Cianci, Sandra
Subject: RE: draft talking points for Roos

Thanks Marty. Also want to support the team, the changes look good.
Margie

From: Virgilio, Martin
Sent: Tuesday, April 19, 2011 11:42 AM
To: Doane, Margaret; Casto, Chuck; Zimmerman, Roy; Reynolds, Steven
Cc: Bloom, Steven; Ramsey, Jack; Henderson, Karen; Foggie, Kirk; Mamish, Nader; Cianci, Sandra
Subject: RE: draft talking points for Roos

Margie

(b)(5)

Call me if you have a concern.

Marty

Proposed Talking Points for a call today with Ambassador Roos

(b)(5)

(b)(5)

Topic 2 -Support to the Government of Japan

(b)(5)

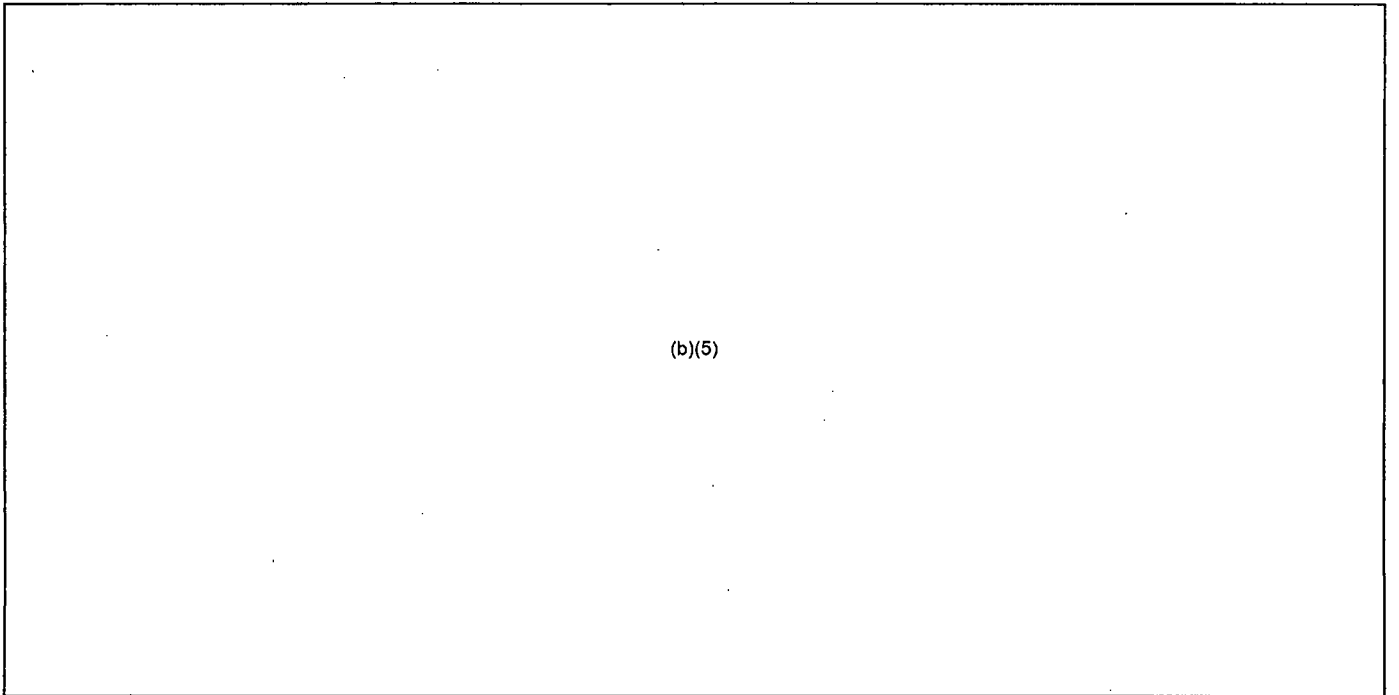
From: Doane, Margaret
Sent: Tuesday, April 19, 2011 11:16 AM
To: Virgilio, Martin; Doane, Margaret; Casto, Chuck; Zimmerman, Roy; Reynolds, Steven
Cc: Bloom, Steven; Ramsey, Jack; Henderson, Karen; Foggie, Kirk; Mamish, Nader; Cianci, Sandra
Subject: RE: draft talking points for Roos

Marty et al,

Please see OIP suggested edits, below.

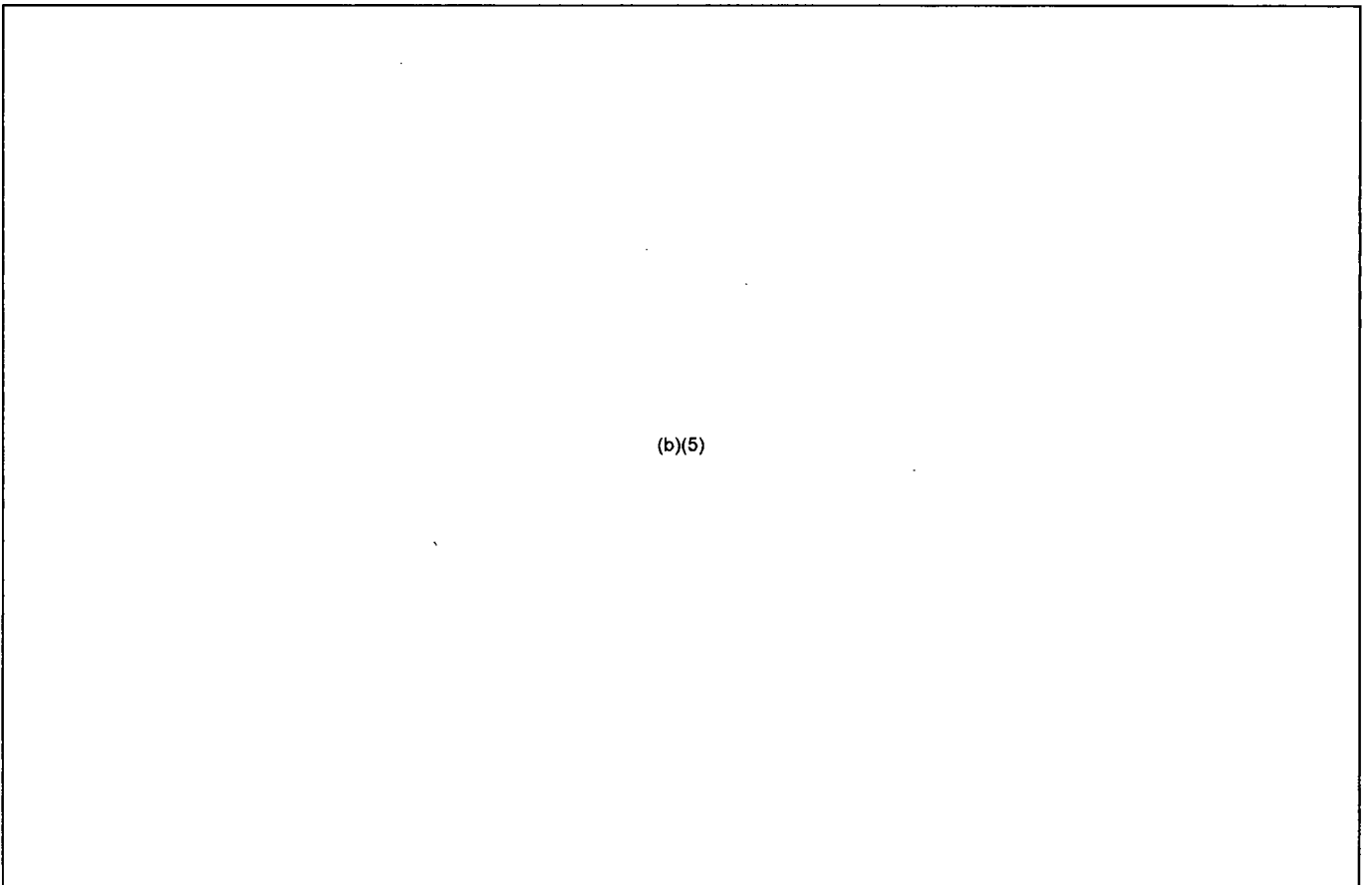
Proposed Talking Points for a call today with Ambassador Roos

Topic 1- NRC Support to the Ambassador and US Citizens in Japan



(b)(5)

Topic 2 -Support to the Government of Japan



(b)(5)

(b)(5)

From: Vietti-Cook, Annette
Sent: Tuesday, April 19, 2011 12:03 PM
To: Doane, Margaret; Virgilio, Martin
Cc: Mamish, Nader; Henderson, Karen
Subject: FW: Japan

FYI, Tom had interviewed our first to responders in Japan. I asked he provide his impressions to Charlie Miller to consider in lesson learned effort.

From: Wellock, Thomas
Sent: Monday, April 18, 2011 11:52 AM
To: Vietti-Cook, Annette
Subject: RE: Japan

Annette,

(b)(5)

Tom

From: Vietti-Cook, Annette
Sent: Monday, April 18, 2011 9:10 AM
To: Wellock, Thomas
Subject: RE: Japan

agree

From: Wellock, Thomas
Sent: Monday, April 18, 2011 6:18 AM
To: Vietti-Cook, Annette
Subject: Japan

Annette,

I'm wondering if I shouldn't be doing more on Japan. I received a message from Brooke Smith in OIP, and like Elmo Collins, she was about what was being done to save the accounts of people who went to Japan in the last few weeks. I'd just like to talk to you briefly this morning about that.

Tom

Thomas Wellock
Historian
U.S. Nuclear Regulatory Commission
O16G4
11555 Rockville Pike
Rockville, MD 20852
301-415-1965

From: Doane, Margaret
Sent: Tuesday, April 19, 2011 12:00 PM
To: Doane, Margaret; Virgilio, Martin; Casto, Chuck; Zimmerman, Roy; Reynolds, Steven
Cc: Bloom, Steven; Ramsey, Jack; Henderson, Karen; Foggie, Kirk; Mamish, Nader; Cianci, Sandra
Subject: RE: draft talking points for Roos

(b)(5)

From: Doane, Margaret
Sent: Tuesday, April 19, 2011 11:16 AM
To: Virgilio, Martin; Doane, Margaret; Casto, Chuck; Zimmerman, Roy; Reynolds, Steven
Cc: Bloom, Steven; Ramsey, Jack; Henderson, Karen; Foggie, Kirk; Mamish, Nader; Cianci, Sandra
Subject: RE: draft talking points for Roos

Marty et al,

Please see OIP suggested edits, below.

Proposed Talking Points for a call today with Ambassador Roos

Topic 1- NRC Support to the Ambassador and US Citizens in Japan

(b)(5)

Topic 2 -Support to the Government of Japan

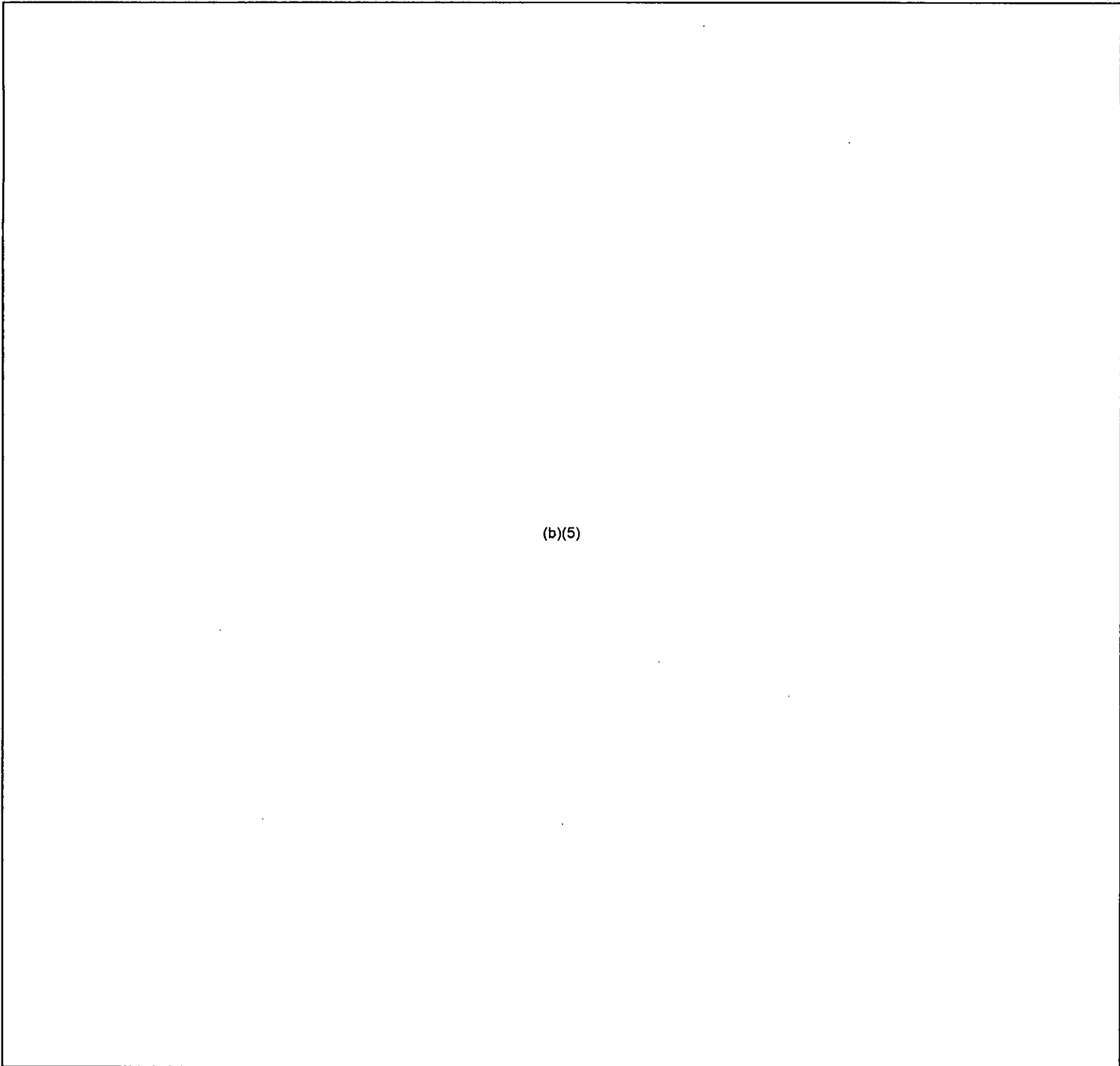
(b)(5)

(b)(5)

From: Virgilio, Martin
Sent: Tuesday, April 19, 2011 10:43 AM
To: Doane, Margaret; Mamish, Nader; Dyer, Jim
Subject: Updated version based on comments received thus far

FYI Updated version based on comments received thus far

Projected costs to NRC for 2011 and 2012 Fukushima activities – Rev 4, April 19th



(b)(5)

(b)(5)

From: Virgilio, Martin
Sent: Tuesday, April 19, 2011 10:26 AM
To: Doane, Margaret; Mamish, Nader; Casto, Chuck; Zimmerman, Roy; Reynolds, Steven
Cc: Cianci, Sandra
Subject: Please add your 2 cents

Proposed Talking Points for a call today with Ambassador Roos

Topic 1- NRC Support to the Ambassador and US Citizens in Japan

(b)(5)

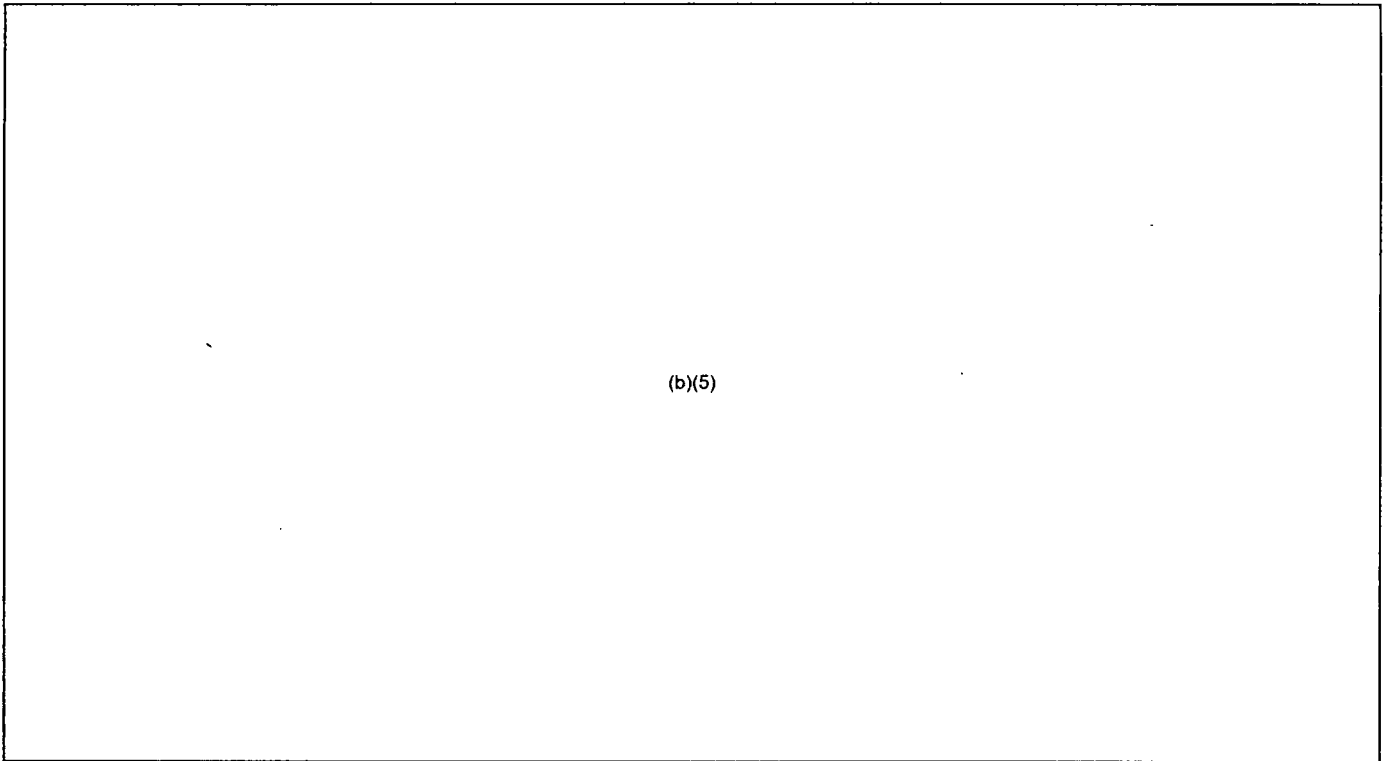
From: Doane, Margaret
Sent: Tuesday, April 19, 2011 10:24 AM
To: Coggins, Angela
Cc: Mamish, Nader; Abrams, Charlotte; Warren, Roberta; Batkin, Joshua
Subject: RE: Upcoming international travel

Hello Angela,

I'm going to ask Patti for 10 minutes today with the Chairman to discuss item #2 below. I also need an answer for items # 3 and #4 today if possible. I was hoping you had a chance to discuss our conversation on Friday.

This is to confirm our conversation on Friday:

Ranking of Trips:



Margie

From: Abrams, Charlotte
Sent: Tuesday, April 19, 2011 9:49 AM
To: Doane, Margaret
Cc: Mamish, Nader
Subject: RE: Upcoming international travel

Margie – just confirmed that the MDEP Steering Group meeting is June 7 and the NEA NLO event was scheduled for June 8. I am now assuming that the Fukushima event will be the 8th.

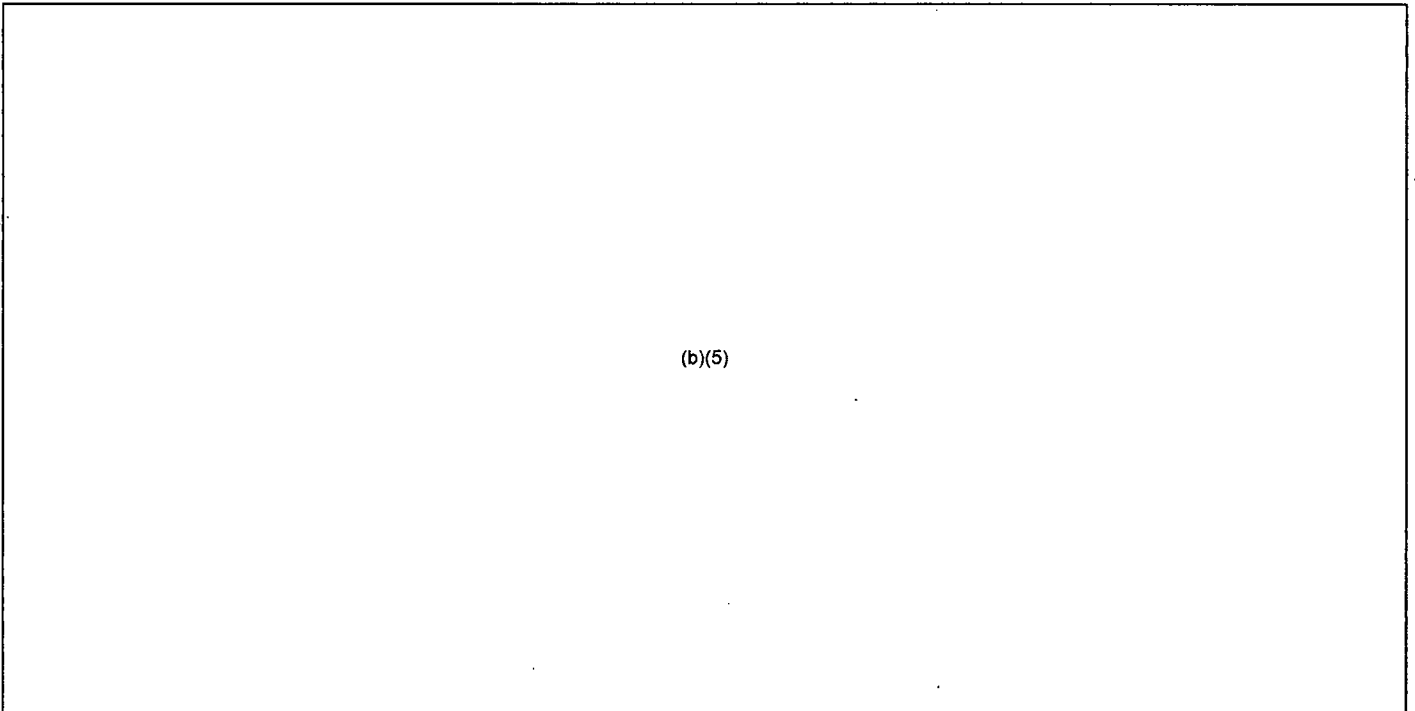
See my edits, below. Please copy Bobbi, John, and Patti. Thanks.

From: Doane, Margaret
Sent: Monday, April 18, 2011 6:26 PM
To: Abrams, Charlotte
Cc: Mamish, Nader
Subject: Upcoming international travel

Charlotte,
Can you please check the note below. I'd like to send it to Angela. Can you fix the dates if incorrect. Thanks,
Margie

Angela,
This is to confirm our conversation on Friday:

Ranking of Trips:



Margie

From: Mamish, Nader
Sent: Tuesday, April 19, 2011 7:19 AM
To: Wittick, Brian; Doane, Margaret; Henderson, Karen; Schwartzman, Jennifer
Cc: Foggie, Kirk; Emche, Danielle; Ramsey, Jack
Subject: RE: Meeting with Japan on Nuclear Liability Issues

Thanks, Brian. Although pending and anticipated future Japanese requests will continue to evolve, we would be very interested in hearing about more about them ...

From: Wittick, Brian
Sent: Tuesday, April 19, 2011 6:48 AM
To: Doane, Margaret; Mamish, Nader; Henderson, Karen; Schwartzman, Jennifer
Cc: Foggie, Kirk; Emche, Danielle; Ramsey, Jack
Subject: FW: Meeting with Japan on Nuclear Liability Issues

FYI on the upcoming Convention discussions with Japan. I am planning to attend the meetings and will report out the results.

VR
Brian

From: Howard, E. Bruce [mailto:HowardEB@state.gov]
Sent: Monday, April 18, 2011 9:56 PM
To: Cooper, Justin D; Cherry, Ronald C; Wittick, Brian; Duncan, Aleshia D; Awan, Riaz X (Sofia - DOE); Spurlock, Kenneth CAPT USN MDAO
Cc: Zumwalt, James P; Wall, Marc M
Subject: FW: Meeting with Japan on Nuclear Liability Issues

ALCON:

This is from Bob Harris, of the State-DOE legal team that will be here Thursday-Friday to meet with MOFA (and other agencies) on legal issues with regard to provision of U.S. nuclear-related assistance to Japan. I have passed the draft agenda he prepared to the Japanese side for their comments/reactions. He would like to begin the meetings Thursday afternoon and use Thursday morning to meet with anyone in the Embassy concerned with nuclear-related assistance issues. They will meet with the Ambassador at 11:30. Would you or any colleagues be interested in meeting with them from 10:00 to 11:00? Please let me know, and also please confirm if you wish to take part in the MOFA meetings.

Bruce

This email is UNCLASSIFIED.

From: Harris, Robert K
Sent: Tuesday, April 19, 2011 6:37 AM
To: Howard, E. Bruce; Herr, Julie K; 'ben.mcrae@hq.doe.gov'

Cc: Harris, Robert K; Deming, Rust M; Schuchat, Simon J; Dresser, Heather L (EAP/J)
Subject: Meeting with Japan on Nuclear Liability Issues

Bruce,

As we discussed, here is our proposed agenda for Thursday and Friday's discussions. (It has been cleared within State (including EAP's Joe Donovan) and vetted with our interagency legal contacts.) Thanks for sharing this with the Japanese, getting any reactions from them, and getting a more detailed list of who will be attending sessions on their side. As we discussed, Julie, Ben and I are available to meet with the Ambassador and anyone else at the embassy on the Thursday morning or in the margins of our bilateral discussions with Japan.

Regarding the agenda, I note that the second bullet is a brief overview of nuclear emergency assistance provided to date by the USG. The USG would not talk at length on this and would base its overview on the attached April 14 U.S. Embassy press statement. When we see you on Thursday morning, please let us know if there is anything not on this list that we should mention or anything on the list we should avoid mentioning.

Thanks, and I look forward to seeing you on Thursday morning at 9 am at the Okura lobby.

Bob

From: Howard, E. Bruce
Sent: Monday, April 18, 2011 2:43 PM
To: Harris, Robert K; Herr, Julie K; 'ben.mcrae@hq.doe.gov'
Subject: FW: latest update to the Nuclear Assistance Tracker matrix

Re: Japanese participants – won't know exactly until Tuesday our time, but MOFA Director General for Disarmament, Nonproliferation, and Science Miyagawa will chair, and probably the MOFA North America office and legal affairs office will also participate; possibly METI, MEXT, and the nuclear agencies will join as well.

From: Shaffer, Mark
Sent: Tuesday, April 19, 2011 1:13 AM
To: Doane, Margaret
Subject: RE: TEPCO Earthquake Information Update on April 17: Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station

Yes. These are the documents I sent to you and Nader Monday morning from my State Department e-mail address.

From: Doane, Margaret
Sent: Monday, April 18, 2011 9:51 AM
To: Shaffer, Mark
Subject: FW: TEPCO Earthquake Information Update on April 17: Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station

Not sure if you have all of these.
Margie

From: Bloom, Steven
Sent: Monday, April 18, 2011 6:51 AM
To: Foggie, Kirk; Emche, Danielle; Mamish, Nader; Doane, Margaret
Subject: FW: TEPCO Earthquake Information Update on April 17: Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station

From: LIA02 Hoc [mailto:LIA02.Hoc@nrc.gov]
Sent: Sunday, April 17, 2011 12:16 PM
To: Bloom, Steven
Subject: FW: TEPCO Earthquake Information Update on April 17: Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station

From: Hidehiko Yamachika [SMTP:YAMACHIKA-HIDEHIKO@JNES-USA.ORG]
Sent: Sunday, April 17, 2011 12:15:57 PM
To: LIA02 Hoc
Cc: aono-kenji@jnes-usa.org; Michael W. Chinworth
Subject: FW: TEPCO Earthquake Information Update on April 17: Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station
Auto forwarded by a Rule

FYI

This is from TEPCO Washington Office.

From: 松尾 建次 [mailto:matsuo.kenji@wash.tepco.com] **On Behalf Of** matsuo.kenji@tepco.co.jp
Sent: Sunday, April 17, 2011 11:52 AM
To: matsuo.kenji@tepco.co.jp

Subject: TEPCO Earthquake Information Update on April 17: Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station

Dear Friends,

On April 17, TEPCO has announced the Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station.

With regard to the accident at Fukushima Daiichi Nuclear Power Station due to the Tohoku-Chihou-Taiheiyo-Oki Earthquake that occurred on Friday, March 11th, 2011, we are currently making our utmost effort to bring the situation under control. This announcement is to notify the roadmap that we have put together towards restoration from the accident.

1. Basic Policy

By bringing the reactors and spent fuel pools to a stable cooling condition and mitigating the release of radioactive materials, we will make every effort to enable evacuees to return to their homes and for all citizens to be able to secure a sound life.

2. Targets

Based on the basic policy, the following two steps are set as targets:

Step1. "Radiation dose is in steady decline" (our target is in about 3 months)

Step2. "Release of radioactive materials is under control and radiation dose is being significantly held down" (3 to 6 months after achieving Step1)

Step3. "Target achievement dates are tentatively set as follows

3. Immediate Actions

Immediate actions were divided into three groups, namely, "I. Cooling", "II. Mitigation", "III. Monitoring and Decontamination."

For the following five issues, targets are set for each of the five issues and various countermeasures will be implemented simultaneously.

[I.Cooling]

"Cooling the Reactors"

"Cooling the Spent Fuel Pools"

[II.Mitigation]

"Containment, Storage, Processing, and Reuse of Water Contaminated by Radioactive Materials (Accumulated Water)"

"Mitigation of Release of Radioactive Materials to Atmosphere and from Soil"

[III.Monitoring and Decontamination]

"Measurement, Reduction and Announcement of Radiation Dose in Evacuation Order/Planned Evacuation/ Emergency Evacuation Preparation Areas"

Please see the attachment for detailed actions:

- Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station
- Reference 1 Roadmap for Immediate Actions
- Reference 2 Overview of Major Countermeasures

Contacts:

TEPCO Washington Office 202-457-0790

Kenji Matsuo, Director and General Manager

Yuichi Nagano, Deputy General Manager,

Masayuki Yamamoto, Manager, Nuclear Power Programs

<p>Current Status (as of April 16th)</p>	<p><Step 1 (around 3 months)> Radiation dose is in steady decline.</p>	<p><Step 2 (around 3 to 6 months*)> Release of radioactive materials is under control and radiation dose is being significantly held down. * After achieving Step 1</p>
<p>Current Status [1] (Units 1 to 3) Cooling achieved / water injection while there is partial damage fuel pellets.</p> <p>Continued injection of fresh water and further cooling measures are required.</p> <p>Countermeasure [1]: Injecting fresh water into the RPV by pumps.</p> <p>Risk [1]: Possibility of hydrogen explosion due to condensation of steam in the PCV when cooled, leading to increased hydrogen concentration.</p> <p>Countermeasure [2]: Injecting nitrogen gas into the PCV (start from Unit 1.)</p> <p>Countermeasure [3]: Consideration of flooding the PCV up to the top of active fuel.</p>	<p>Target [1] (Unit 1 to 3) Maintain stable cooling.</p> <p>Countermeasure [9]: Flood the PCV up to the top of active fuel.</p> <p>Countermeasure [10]: Reduce the amount of radioactive materials (utilization of standby gas treatment system (filter), etc.) when PCV venting (release of steam containing radioactive materials into the atmosphere).</p> <p>Countermeasure [11]: Continue preventing hydrogen explosion by injecting nitrogen into the PCV.</p> <p>Risk [4]: Increase in water leakage into the turbine building in the process of flooding the PCV.</p> <p>Countermeasure [12]: Consideration and implementation of measures to hold down water inflow (e.g., circulating the water back into the RPV by storing and processing the accumulated water in the turbine building.)</p>	<p>Target [3] Achieve cold shutdown condition (sufficient cooling is achieved depending on the status of each unit.)</p> <p>Countermeasure [17]: Maintain and enhance countermeasures in Step 1 if needed.</p>
<p>Current Status [2] (Units 1 to 3) High likelihood of small leakage of steam containing radioactive materials through the gap of PCV caused by high temperature.</p> <p>Reducing the amount of steam through cooling and implementation of leakage prevention are required.</p> <p>Countermeasure [4]: Lower the amount of steam generated by sufficiently cooling the reactor (to be achieved by measures in Steps 1 and 2.)</p> <p>Countermeasure [5]: Consideration of shielding the leakage by covering the reactor building (coordinate with issue [4].)</p>	<p>Countermeasure [13]: Consideration of recovering heat exchange function for the reactor (installing heat exchangers).</p> <p>Risk [5]: Possibility of prolonged work in high dose level area (→keep countermeasures [9] and [12])</p>	
<p>Current Status [3] (Unit 2) Large amount of water leakage, indicating high likelihood of PCV damage.</p> <p>Sealing the damaged location is required.</p> <p>Need to control the amount of water injection since leakage increases as injection increases.</p> <p>Countermeasure [6]: Consideration of sealing the damaged location (e.g., filling with grout (glutinous cement))</p> <p>Countermeasure [7]: Cooling at minimum water injection rate (control the leakage of contaminated water.)</p> <p>Risk [2]: Possibility of prolonged work of sealing the damaged location (→countermeasures [12] and [14])</p>	<p>Target [2] (Unit 2) Cool the reactor while controlling the increase of accumulated water until PCV is sealed.</p> <p>Countermeasure [14]: Continue cooling by current minimum injection rate.</p> <p>Countermeasure [15]: Continue prevention of hydrogen explosion by nitrogen injection into the PCV.</p> <p>Countermeasure [16]: Continue consideration and implementation of sealing measure at damaged location. Implement cooling measures similar to those for Units 1 and 3 until the damaged</p>	
<p>Current Status [4] Secured multiple off-site power system each from TEPCO and Tohoku EPCO) and deployed backup power (generator cars /</p>		

significantly held down.
* After achieving Step 1

Current Status [5]: Fresh water is injected from outside for Units 1, 3, 4 and through normal cooling line for Unit 2.

Reduction of worker exposure and countermeasures for aftershocks are required.

Countermeasure [18]: Consideration/implementation of improving reliability of external water injection by concrete pumpers ("Giraffe", etc.)/switch to remote-controlled operation.

Current Status [6]: Confirmation of release of radioactive materials from the pool

Countermeasure [19]: Sampling and measurement of steam/pool water by "Giraffe", etc.

Test fuels in Unit 4 have been confirmed intact according to the result of pool water analysis.

Current Status [7]: Walls of the building supporting the pool have been damaged.

Seismic tolerance evaluation is especially needed for Unit 4.

Countermeasure [20]: Seismic tolerance assessment of Unit 4.

A certain level of seismic tolerance has been confirmed.

Countermeasure [21]: Continue monitoring and examine necessary countermeasures (→ countermeasure [26].)

Current Status [8]: Leakage of high radiation-level contaminated water assumed to have originated from Unit 2 reactor occurred, but was subsequently stopped.

Countermeasure [29]: Identify leakage path and examine and implement preventive measures.

• Placing sandbags with radioactive-material adsorption material (zeolite) in the bay.

• Installing fences in the bay to prevent contamination from spreading (silt fence.)

• Placing blocks between trenches and buildings, etc

Current Status [9]: Leakage and accumulation of high radiation level contaminated water at Unit 3 turbine building, vertical shafts and trenches.

Countermeasure [30]: Transferring accumulated water to facilities where it can store it (condenser and Centralized Waste Treatment Facility).

Countermeasure [31]: Preparing decontamination and desalt of transferred accumulated water. (→Countermeasure [38])

Countermeasure [32]: Preparing to install tanks.

Current Status [10]: Increase of storage volume of water with low radiation level.

Countermeasure [33]: Preparing to store with tanks and barges.

Countermeasure [34]: Preparing for decontamination and desalt of contaminated water (→Countermeasure [41])

Target [4]: Maintain stable cooling.

Countermeasure [22]: Continuation of water injection by "Giraffe", etc (reliability improvement (enhanced durability of hoses)/switch to remote-controlled operation.)

Countermeasure [23]: Add cooling function to normal Fuel Pool Cooling system and continue injecting water for Unit 2.

Countermeasure [24]: Examination and implementation of restoration of normal cooling system for Units 1, 3, and 4.

Risk [6]: Possibility of inability to restore normal cooling line due to damages to the building.

Countermeasure [25]: Examination and implementation of installing heat exchangers.

Countermeasure [26]: (Unit 4) Installation of supporting structure under the bottom of the pool.

Target [6]: Secure sufficient storage place to prevent water with high radiation level from being released out of the site boundary.

Countermeasure [37]: Utilization of "Centralized Waste Treatment Facility", etc. to store water.

Countermeasure [38]: Install water processing facilities; decontaminate and desalt highly-contaminated water and store in tanks.

Risk [7]: Possibility of delay in installing water processing facilities or poor operating performance of the facilities.

Countermeasure [39]: Examination and implementation of backup measures (installment of additional tanks or pools or leakage prevention by coagulator, etc.)

Target [7]: Store and process water with low radiation level.

Countermeasure [40]: Increase storage capacity by adding tanks, barges, Megafloat, etc.

Countermeasure [41]: Decontaminating

Target [5]: Maintain more stable cooling function by keeping a certain level of water.

Countermeasure [27]: Cooling by installation of heat exchangers.

Countermeasure [28]: Expansion of remote-controlled operation areas of "Giraffe", etc.

Target [8]: Decrease the total amount of contaminated water.

Countermeasure [42]: Expansion of additional tanks to store high radiation-level contaminated water.

Countermeasure [43]: Continuation and reinforcement of decontamination and desalt of high radiation-level water.

Countermeasure [44]: Continuation and reinforcement of decontamination and desalt of low radiation-level water.

Countermeasure [45]: Reuse of processed water as reactor coolant.

Countermeasure [46]:

significantly held down.
* After achieving Step 1

Current Status [12]: Debris are scattered outside buildings and radioactive materials are being scattered.
 Countermeasure [47]: Inhibit scattering of radioactive materials by full-scale dispersion of inhibitor after confirming its performance by test.
 Countermeasure [48]: Prevent rain water contamination by dispersion of inhibitor.
 Countermeasure [49]: Removal of debris.
 Countermeasure [50]: Examination and implementation of basic design for reactor building cover and full-fledged measure (container with concrete roof and wall, etc.)
 Countermeasure [51]: Consideration of solidification, substitution and cleansing of contaminated soil (medium-term issues.)

Target [9]: Prevent scattering of radioactive materials on buildings and ground.
 Countermeasure [52]: Improvement of work condition by expanding application and dispersion of inhibitors to the ground and buildings.
 Countermeasure [53]: Continue removal of debris.
 Countermeasure [54]: Begin installing reactor building cover (with ventilator and filter.)
 Risk [8]: Considerable reduction of radiation dose is a prerequisite to launch construction (→continue countermeasure [52] and [53].)

Target [10]: Cover the entire buildings (as temporary measure).
 Countermeasure [55]: Complete installing reactor building covers (Units 1, 3, 4.)
 Risk [9]: Possibility of cover being damaged by a huge typhoon.
 Countermeasure [56]: Begin detailed design of full-fledged measure (container with concrete roof and wall, etc.)

Current status [13]: Monitoring of radiation dose in and out of the power station is carried out.
 Countermeasure [57]: Monitoring sea water, soil and atmosphere within the site boundary (25 locations.)
 Countermeasure [58]: Monitoring radiation dose at the site boundary (12 locations.)
 Countermeasure [59]: Consideration of monitoring methods in evacuation order/planned evacuation/emergency evacuation preparation areas. (→countermeasure [60] to [63])

Target [11]: Expand/enhance monitoring and inform of results fast and accurately.
 Countermeasure [60]: Consideration and implementation of monitoring methods in evacuation order / planned evacuation / emergency evacuation preparation areas (in cooperation and consultation with national/prefectural/municipal governments.)
 Countermeasure [61]: Announce accurately monitoring results of long half-life residue radioactive materials such as cesium 137.

Target [12]: Sufficiently reduce radiation dose in evacuation order / planned evacuation / emergency evacuation preparation areas.
 Countermeasure [62]: Monitoring of homecoming residences <in cooperation and consultation with national / prefectural / municipal governments.>
 Countermeasure [63]: Examination and implementation of necessary measures to reduce radiation dose (decontamination of homecoming residences and soil surface) <in cooperation and consultation with national/prefectural/municipal governments.>

CZ 1320 of 2042

With regard to radiation dose monitoring and reduction measures in evacuation order/planned evacuation/emergency evacuation preparation areas, we will proceed through cooperation with the national government and by consultation with the prefectural and municipal governments.

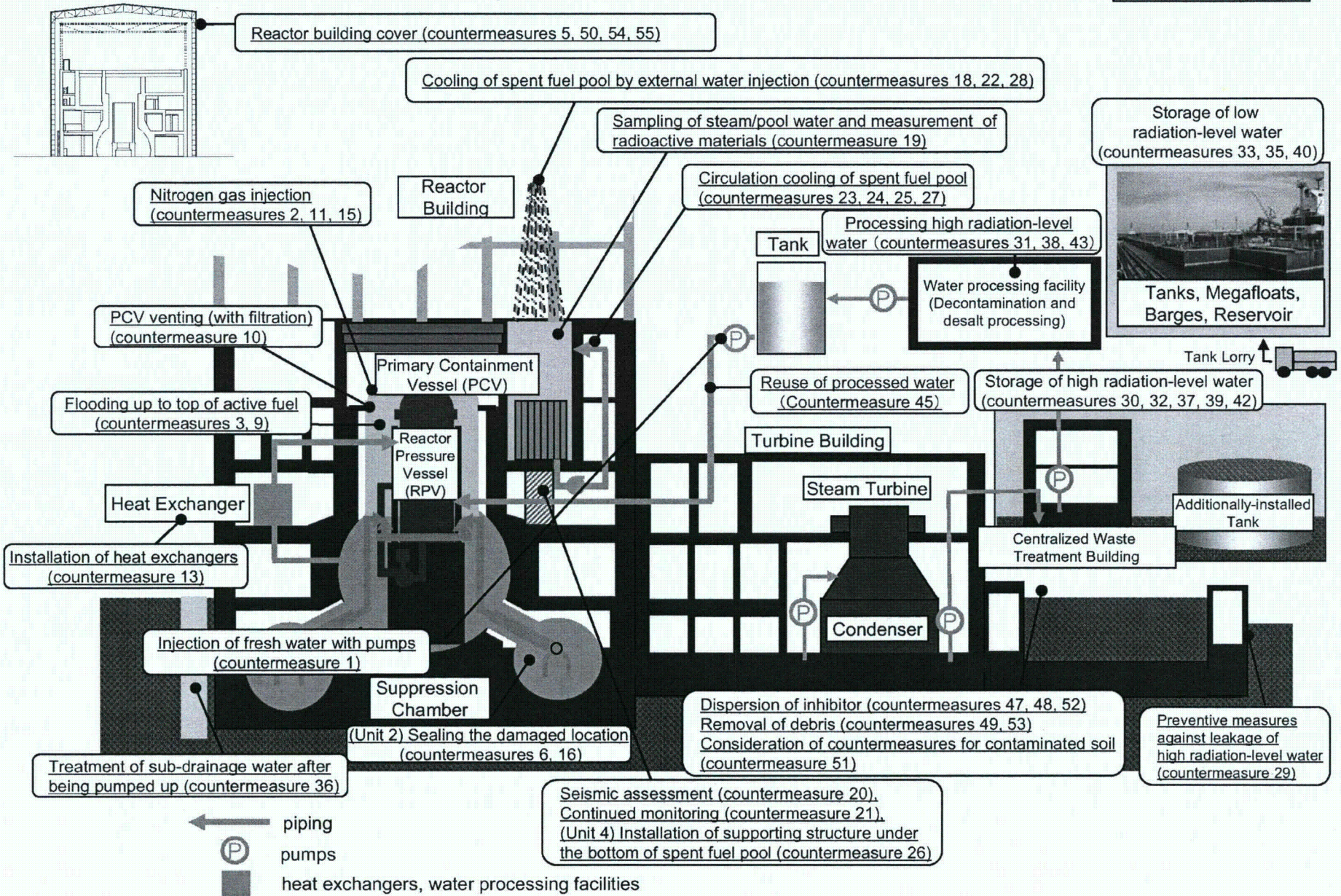
Roadmap for Immediate Actions (Issues / Targets / Major Countermeasures)

Reference 1

	Current Status	STEP1	STEP2	Mid-term Issues
I. Cooling	(1) Reactors	Injecting fresh water Nitrogen gas injection (Unit1-3) Flooding up to top of active fuel Examination and implementation of heat exchange function (Unit 2) Sealing the damaged location	Stable cooling Flooding up to top of active fuel	Cold shutdown condition Prevention of breakage of structural materials , etc.
	(2) Spent Fuel Pools	Injecting fresh water Enhance reliability of water injection Restore coolant circulation system (Unit 4) Install supporting structure	Stable cooling Remote control of water injection Examination and implementation of heat exchange function	More stable cooling Removal of fuels
II. Mitigation	(3) Accumulated Water	Transferring water with high radiation level Storing water with low radiation level Installation of storage / processing facilities Installation of storage facilities / decontamination processing	Secure storage place Expansion of storage / processing facilities Decontamination / Desalt processing (reuse), etc	Decrease contaminated water Installation of full-fledged water treatment facilities
	(4) Atmosphere / Soil	Dispersion of inhibitor Removal of debris Installing reactor building cover	Installing reactor building cover	Installation of reactor building cover (container with concrete) Solidification of contaminated soil, etc
III. Monitoring/Decontamination	(5) Measurement, Reduction and Announcement	Monitoring of radiation dose in and out of the power station Expand/enhance monitoring and inform of results fast and accurately	Sufficiently reduce radiation dose in evacuation order / planned evacuation / emergency evacuation preparation areas	Continue monitoring and informing environmental safety

Overview of Major Countermeasures in the Power Station

Reference 2



Roadmap for Immediate Actions

Areas	Issues	Targets and Countermeasures	
		Step 1	Step 2
I. Cooling	(1) Cooling the Reactors	① Maintain stable cooling <ul style="list-style-type: none"> Nitrogen gas injection Flooding up to top of active fuel Examination and implementation of heat exchange function ② (Unit 2) Cool the reactor while controlling the increase of accumulated water until the PCV is sealed	③
	(2) Cooling the Spent Fuel Pools	④ Maintain stable cooling <ul style="list-style-type: none"> Enhance reliability of water injection Restore coolant circulation system (Unit 4) Install supporting structure 	⑤
II. Mitigation	(3) Containment, Storage, Processing, and Reuse of Water Contaminated by Radioactive Materials (Accumulated Water)	⑥ Secure sufficient storage place to prevent water with high radiation level from being released out of the site boundary. <ul style="list-style-type: none"> Installation of storage / processing facilities. ⑦ Store and process water with low radiation level <ul style="list-style-type: none"> Installation of storage facilities/decontamination processing. 	⑧
	(4) Mitigation of Release of Radioactive Materials to Atmosphere and from Soil	⑨ Prevent scattering of radioactive materials on buildings and ground <ul style="list-style-type: none"> Dispersion of inhibitor Removal of debris Installing reactor building 	⑩
Monitoring/Minimization	(5) Measurement, Reduction and Announcement of Radiation Dose in Evacuation	⑪ Expand/enhance monitoring and inform of results fast and accurately <ul style="list-style-type: none"> Examination and implementation of monitoring methods. 	⑫

actors and spent fuel pools to a stable cooling condition and of radioactive materials, we will make every effort to enable their homes and for all citizens to be able to secure a sound life.

policy, the following two steps are set as targets: dose is in steady decline.

f radioactive materials is under control and radiation dose is significantly held down.

Step 2 will be categorized as "Mid-term Issues"

if dates are tentatively set as follows, although there will still be s and risks:

months

to 6 months (after achieving Step 1)

ments will be made as soon as timing of step-wise target achievement or

prospect is determined, as well as if revisions to the targets or

nt dates become necessary.

the above targets, immediate actions were divided into 3 groups for each of the 5 issues. Various countermeasures will be simultaneously (see the table in right.)

Step 1, overcoming the following two issues that are currently will be critical:

hydrogen explosion inside the primary containment vessel (Units 1 to 3.)

actor by injecting fresh water into the reactor increases the condensation, leading to a concern of potentially triggering a

injected into the PCV of each unit to keep the concentration of oxygen below flammability limit.

ease of contaminated water with high radiation level outside of (Unit 2.)

the reactor by injecting fresh water, accumulation of water with high radiation level in the turbine building is increasing

2013.07.23
 2014.02.25

From: Doane, Margaret
Sent: Monday, April 18, 2011 4:32 PM
To: Schwartzman, Jennifer
Subject: FW: Meeting Summary - IAEA Convention on Assistance.docx

Conversation I had with the DOS attorney.
Margie

From: Herr, Julie K [mailto:HERRJK@state.gov]
Sent: Thursday, April 14, 2011 8:32 PM
To: Doane, Margaret
Subject: RE: Meeting Summary - IAEA Convention on Assistance.docx

Margie, thanks very much for this e-mail. Regards, Julie

SBU
This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Tuesday, April 12, 2011 12:34 PM
To: Herr, Julie K
Cc: Emche, Danielle; Wittick, Brian; Foggie, Kirk; Mamish, Nader; Fladeboe, Jan P; Shaffer, Mark R; Rothschild, Trip
Subject: FW: Meeting Summary - IAEA Convention on Assistance.docx

Julie,
I understand that you'll be meeting re: the Convention on Assistance. Attached is a 4-11 day summary from our team in Japan at the Embassy, [REDACTED]

(b)(5)

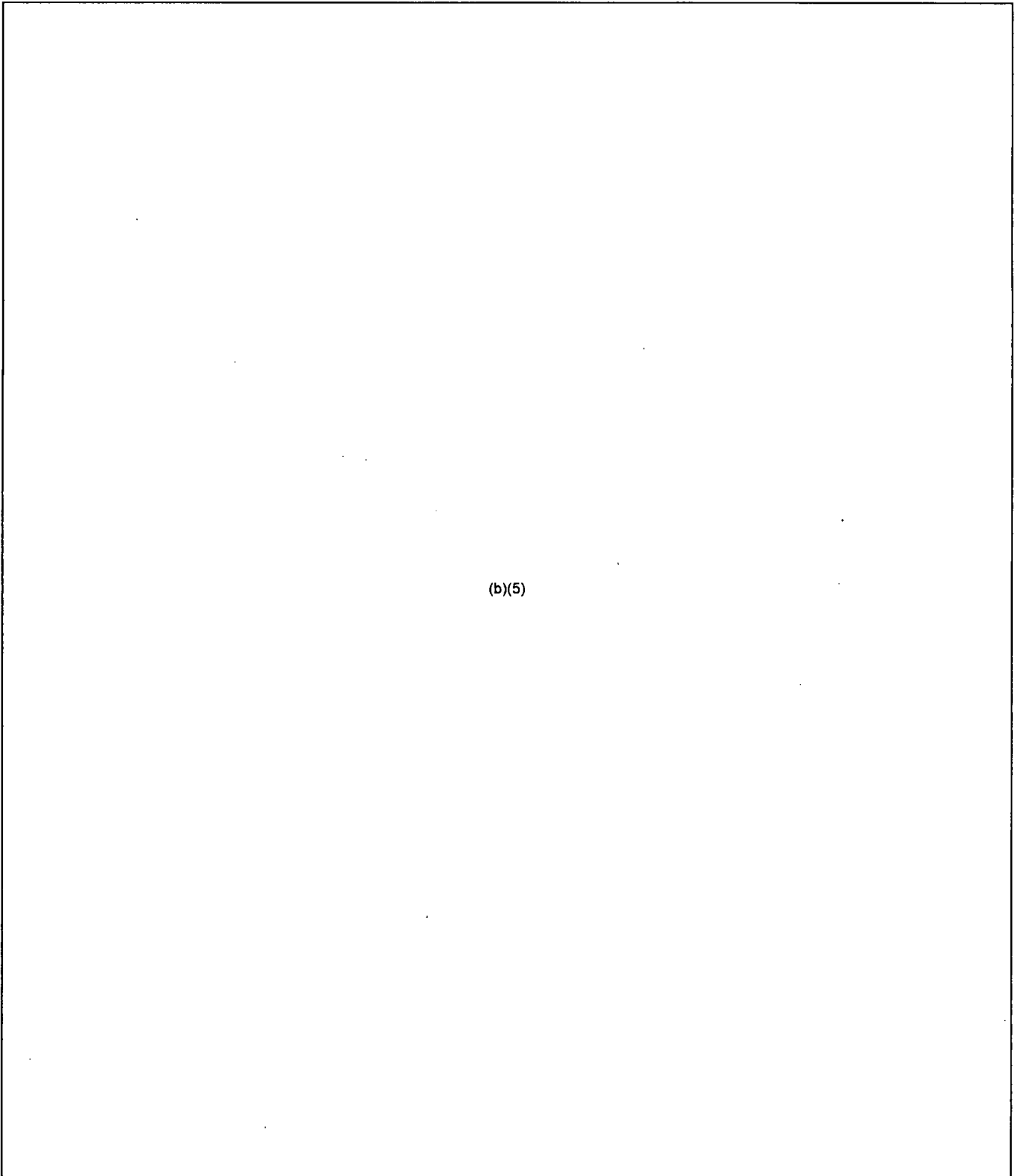
(b)(5)

(b)(5)

(b)(5)

Regards,
Margie

Summary
4/11 and 4/12



(b)(5)

Discussion on Japan's Position on the IAEA Convention on Assistance

Date/Time: Friday, 1 April 2011, 1600-1700

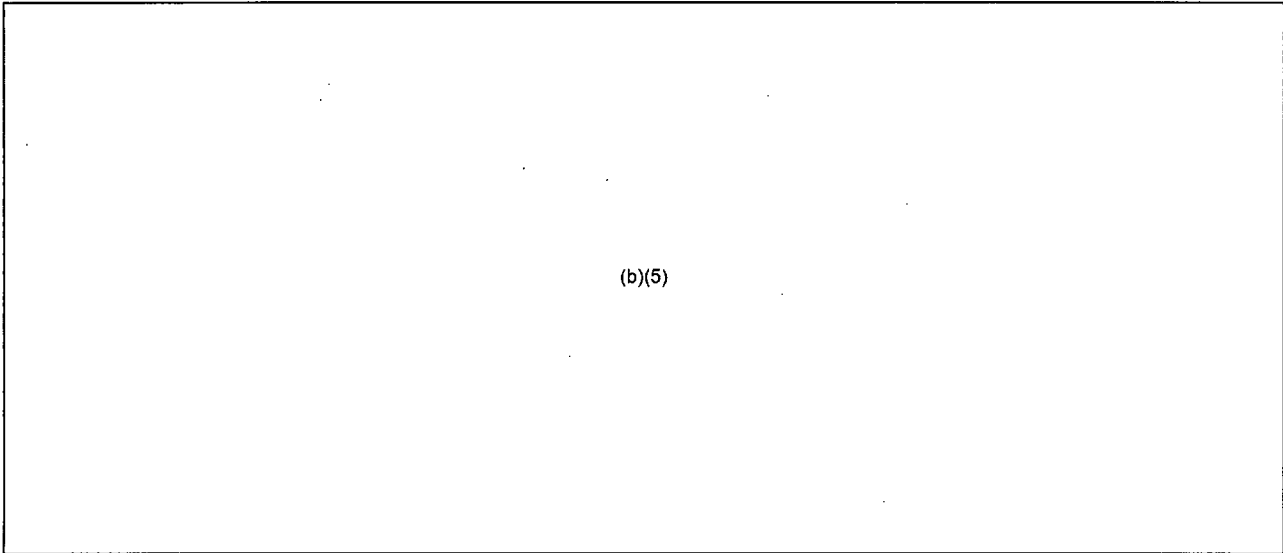
Location: Japan Ministry of Foreign Affairs

U.S. Attendees: Marc Wall (Embassy-Tokyo), John Monninger (NRC), Danielle Emche (NRC), Eric Stahl (NRC)

Japan Attendees: Hiroyuki Kobayashi (MOFA), Rokuichiro Michii (MOFA), Hideaki Konagaya (MOFA), others not named attended as well.

(b)(5)

OFFICIAL USE ONLY



(b)(5)

OFFICIAL USE ONLY

From: Javier.REIG@oecd.org
Sent: Monday, April 18, 2011 4:04 PM
To: Borchardt, Bill
Cc: Doane, Margaret
Subject: Re: Forum on Fukushima

Thanks Bill. We wait for comments from Margie.
Javier

----- Original Message -----

From: Borchardt, Bill [mailto:Bill.Borchardt@nrc.gov]
Sent: Monday, April 18, 2011 09:34 PM
To: REIG Javier, NEA/SURN
Cc: Doane, Margaret <Margaret.Doane@nrc.gov>
Subject: Re: Forum on Fukushima

Thanks Javier. I believe that the proposed agenda is consistent with the discussions we had last week in Vienna. Margie Doane will be coordinating NRC participation at the forum and will provide NRC comments.

Best Regards,
Bill
Bill Borchardt
Via blackberry

----- Original Message -----

From: Javier.REIG@oecd.org <Javier.REIG@oecd.org>
To: mike.weightman@hse.gsi.gov.uk <mike.weightman@hse.gsi.gov.uk>; andre-claude.lacoste@asn.fr <andre-claude.lacoste@asn.fr>; jukka.laaksonen@stuk.fi <jukka.laaksonen@stuk.fi>; Borchardt, Bill
Cc: gail.scowcroft@hse.gsi.gov.uk <gail.scowcroft@hse.gsi.gov.uk>; peter.addison@hse.gsi.gov.uk <peter.addison@hse.gsi.gov.uk>; Luis.ECHAVARRI@oecd.org <Luis.ECHAVARRI@oecd.org>; Diane.JACKSON@oecd.org <Diane.JACKSON@oecd.org>; Greg.LAMARRE@oecd.org <Greg.LAMARRE@oecd.org>; jean-cristophe.niel@asn.fr <jean-cristophe.niel@asn.fr>; Leeds, Eric; margie.doane@nrc.gov <margie.doane@nrc.gov>; J.Lyons@iaea.org <J.Lyons@iaea.org>
Sent: Sun Apr 17 13:20:13 2011
Subject: Forum on Fukushima

Dear colleagues,
As agreed in Vienna please find attached a proposed agendad for the Forum on Fukushima to replace the Long Term Operation Forum. The dates remain unchanged , that is next June 8th in Paris.

We have tried to follow as closely as possible the agreement reached in our meeting in Vienna:

(b)(4)

I have met many of the speakers during the last day of the Convention and they have agreed to contribute. Still we will need to close others and confirm the rest.

Please take a look at the agenda and let me know your comments and suggestions. We will develop an announcement of a few pages once we have agreed on the agenda and we have confirmed the speakers. Our goal is to distribute the full package at the end of this month, so your responses are welcome at your earliest convenience.

I had lunch with Jim Lyons on Thursday and mention to him the discussions with Mr. Amano and the expectation that this Forum will contribute to the preparation of the Ministerial meeting called by IAEA. He is on copy in this email.

Best regards
Javier

From: REIG Javier, NEA/SURN
Sent: Wednesday, April 13, 2011 4:28 PM
To: 'mike.weightman@hse.gsi.gov.uk'; 'andre-claude.lacoste@asn.fr'; 'jukka.laaksonen@stuk.fi';
'bill.borchardt@nrc.gov'
Cc: 'gail.scowcroft@hse.gsi.gov.uk'; 'peter.addison@hse.gsi.gov.uk'
Subject: Fw: Meeting with Mike tomorrow morning (8am ?)

Dear colleagues, we have agreed to meet tomorrow morning (Thursday 14) at 8am in the French delegation room in M building ground floor.
Javier

Forum on the Fukushima Accident: Insights and Approaches
(or Insights and Approaches from the Fukushima Accident)

Late update: 17 April

(b)(4)

From: Doane, Margaret
Sent: Monday, April 18, 2011 11:13 AM
To: Fragoyannis, Nancy
Subject: FW: Copy of article / many thanks

Here's the article.
Margie

From: roberta.rampton@thomsonreuters.com [mailto:roberta.rampton@thomsonreuters.com]
Sent: Monday, April 18, 2011 9:05 AM
To: Brenner, Eliot; Burnell, Scott; Doane, Margaret
Subject: Copy of article / many thanks

Hello: Many thanks again for speaking with me last week for this article, which finally ran today. It was part of a larger package, and there was some kind of hold-up with the rest of the package last week. The package is at <http://link.reuters.com/dap98>
Best thanks,
Roberta

Roberta Rampton
Correspondent

Reuters

Phone: 202 898 8376
Mobile: (b)(6)
roberta.rampton@thomsonreuters.com

RSS feed: <http://blogs.reuters.com/roberta-rampton/feed/>

03:29 18Apr11 -EXCLUSIVE-US nuclear regulator: Policeman or salesman?

This is part of a special report on the nuclear power industry. PDF version: <http://link.reuters.com/dap98>

- * Cables show NRC part of the sales pitch for US companies
- * NRC says focus on safety in international meetings
- * "They should be allergic to that" - critic
- * Mechanical Engineers event had unofficial promotion aim

By Ben Berkowitz and Roberta Rampton
NEW YORK/WASHINGTON, April 18 (Reuters) - The U.S. Nuclear Regulatory Commission exists to police, not promote, the domestic nuclear industry -- but diplomatic cables show that it is sometimes used as a sales tool to help push American technology to foreign governments.

The cables, obtained by WikiLeaks and provided to Reuters by a third party, shed light on the way in which U.S. embassies have pulled in the NRC when lobbying for the purchase of equipment made by Westinghouse and other domestic manufacturers.

While the use of diplomats to further American commercial interests is nothing new, it is far less common for regulators to be acting in even the appearance of a commercial capacity, raising concerns about a potential conflict of interest.

The subject is particularly sensitive at a time when there are concerns about whether the operator of the stricken Fukushima nuclear power plant, which was designed by U.S. conglomerate General Electric Co. <GE.N>, had been properly supervised by the NRC's equivalent in Japan.

The NRC's own chairman has said that in the nuclear business, avoiding conflicts of interest is paramount.

"The important point is that all countries should strive to maintain a strict independence between the regulator and the industries that it oversees," Gregory Jaczko said in an April 2010 speech to an international forum in Seoul.

EMBRACING THE MODEL

But the cables -- from 2006 to early 2010 -- show that the NRC's role in promoting its regulatory model around the world can easily turn it into an advocate for U.S. nuclear technology, whether its officials realize it or not.

For example, an unclassified January 2009 cable from the U.S. embassy in Kuala Lumpur noted that the Malaysian government, as it pursued a nuclear policy, preferred to work with contractors the NRC had already approved.

The diplomatic corps there was quick to point out how that might be used to financial advantage.

The stance "places the (U.S. Government) and US companies in a favorable position to build stronger relations with both representatives and (Government of Malaysia) officials," the embassy said.

In other countries the message was even more pointed, as in Italy in late 2009. Former NRC Chairman Dale Klein, then still a commissioner, visited the country to discuss nuclear cooperation as the government looked to restart the country's civilian nuclear program and build as many as 10 new plants.

Klein was there to talk regulation, but he also unwittingly figured in the embassy's efforts to promote American vendors.

"Commissioner Klein's visit gave additional support to U.S. nuclear energy companies. A (embassy) co-sponsored public forum on nuclear energy featuring Commissioner Klein as keynote speaker and U.S. companies as panel members attracted a large audience of senior public and private Italian officials and local press coverage," a cable said.

Klein, now a vice chancellor at the University of Texas System and a board member at two utility companies with nuclear operations, said that while he was a firm believer in the NRC playing a more international role, commercial advocacy was never part of his job.

"As a regulator we would never take a position of recommending one reactor over another. The NRC's position was safety and security, and you can get the safety and security in a variety of ways," Klein said. "I never recall having been asked the question of what reactor should a country use."

ALLERGY TO COMMERCIALISM

The NRC was created in 1975 because its predecessor, the Atomic Energy Commission, had been criticized for conflicts in both policing and promoting an industry. The NRC was tasked with regulation, while a separate agency, later folded into the Energy Department, promoted nuclear power.

It's common for NRC staff and commissioners to be asked to attend international meetings, but they accept only invitations where they can press for strong safety regulations, said Margie Doane, director of the NRC's international programs, who declined to comment directly on the cables.

"You want to talk about safety right at the very inception of someone's thinking about nuclear power," Doane said.

"As long as we make sure our role is only safety and only regulation, it's a very important aspect, and it doesn't have anything to do with whether they buy U.S. technology or not," she said. "If we're invited into something which looks promotional, we make sure that there's a good opportunity for us to get the safety message out, and that it's going to be understood in the right way."

BEAT THE FRENCH

The fear for diplomats is that U.S. equipment companies need government help, lest they be elbowed aside by foreign state-owned competitors such as France's Areva <CEPFI.PA>.

The main concern is for the two nuclear reactor builders most closely tied to the United States -- General Electric Co.'s <GE.N> nuclear joint venture with Japan's Hitachi Ltd <6501.T> and Westinghouse Electric Co, the U.S.-based nuclear reactor builder 77 percent owned by Japan's Toshiba Corp. <6502.T> and 20 percent owned by Shaw Group <SHAW.N>.

That beat-the-French theme comes up over and over again in cables from around the world -- embassies noting with a sense of urgency that foreign competitor X is already on the ground meeting with government officials, and U.S. interests need to act fast at the highest levels to counteract the threat.

"U.S. company representatives and their Italian allies are apprehensive that absent high-level U.S. lobbying, French pressure will push the decision toward a purchase of their technology. We clearly need to engage at the highest level, given the stakes involved ... [t]ens of billions of dollars in contracts and substantial numbers of high-technology jobs could be involved," a cable from the Rome embassy said in February 2009.

In some cases, NRC officials, while not lobbying for American companies, may have smoothed their way. In February 2007, former NRC commissioner Jeffrey Merrifield visited Hanoi to discuss cooperation on nuclear regulation with Vietnam.

According to the embassy, the Vietnamese told Merrifield they had already been approached by French and Japanese companies about a proposed nuclear plant scheduled to start up by 2020. Merrifield, the embassy said, responded in kind that the Vietnamese should expect to hear from American firms like GE and Westinghouse as well.

A spokeswoman for Merrifield's current employer, Shaw Group, was not available for comment.

That push for American counter-action sometimes resulted in overt lobbying, but sometimes the response was more subtle. One striking example came from South Africa in Nov. 2008.

The embassy in Pretoria, so the story goes, helped the American Society of Mechanical Engineers hold a workshop on nuclear codes and standards in Johannesburg. The workshop was sponsored by Westinghouse and Areva, and featured speakers including NRC engineering officials.

While the official purpose of the event was to promote ASME standards to South African suppliers looking to participate in the global nuclear supply chain, the embassy was not shy about explaining its real purpose.

But the embassy indicated there was another purpose: "The unofficial purpose of the workshop was to support Westinghouse's bid as a global supplier committed to localization in South Africa and the ASME standard in its global supply chain, although ASME was technically neutral on the bidding competition," it said.

Their argument was subtle but unmistakable - standards are important, and Westinghouse uses a key international standard, but Areva doesn't, so go Westinghouse instead.

An ASME spokesman declined to comment.

One NRC critic said the very idea of the commission was to divorce the commercial from the professional.

"The whole point in creating the NRC was to get out of the business of looking like they were in the business of promoting anything other than safety," said Henry Sokolski, a conservative nuclear proliferation expert.

"That they should somehow be seen as advantageous to making people comfortable about getting into the business so to speak is itself an abomination. They should be allergic to that," Sokolski said.

(Reporting by Ben Berkowitz in New York and Roberta Rampton in Washington, Editing by Martin Howell)

((ben.berkowitz@thomsonreuters.com; +1-646-223-6132; Reuters Messaging: ben.berkowitz.reuters.com@reuters.net))

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From: McDevitt, Joan
Sent: Monday, April 18, 2011 10:56 AM
To: Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte; Owens, Janice
Subject: 2nd Qtr OPRA FY 2011 Nominees
Attachments: 2nd OPRA FY 2011 II Qtr Noms Justifications.doc

Sensitivity: Confidential

Attached is the list of nominees for the 2nd Quarter OPRA Award (January 1 – March 31) nominations closed last Friday. I have some comments that I'll share with Steve because I didn't want to add here.

Please discuss at tomorrow's management meeting.

Thanks, Joan

(b)(5),(b)(6)

(b)(5),(b)(6)

3rd Quarter Nominations (April 1 – June 30, 2011)

**(1) Nominee:
Nominated by:**

4th Quarter Nominations (July 1 – September 30, 2011)

**(1) Nominee:
Nominated by:**

From: Doane, Margaret
Sent: Monday, April 18, 2011 10:53 AM
To: Cianci, Sandra
Subject: RE: Paper on Options for Japan

Yes. Thanks,
Margie

From: Cianci, Sandra
Sent: Monday, April 18, 2011 10:51 AM
To: Doane, Margaret
Subject: RE: Paper on Options for Japan

Margie,

Thank you. Are you planning to attend the 11am meeting with the Chairman? Marty feels that you should attend. Thanks

Sandy Cianci

*Administrative Assistant to Marty Virgilio, DEDR
Office of the Executive Director for Operations
O-17 H13
301-415-1714
sandra.cianci@nrc.gov*

From: Doane, Margaret
Sent: Monday, April 18, 2011 10:50 AM
To: Cianci, Sandra
Subject: FW: Paper on Options for Japan

Here's the document, I forgot to tell Karen to send it to you.
Margie

From: Henderson, Karen
Sent: Monday, April 18, 2011 10:08 AM
To: Virgilio, Martin; Doane, Margaret
Cc: Mamish, Nader; Ramsey, Jack
Subject: Paper on Options for Japan

Marty and Margie,

Attached please find the subject paper for your consideration.

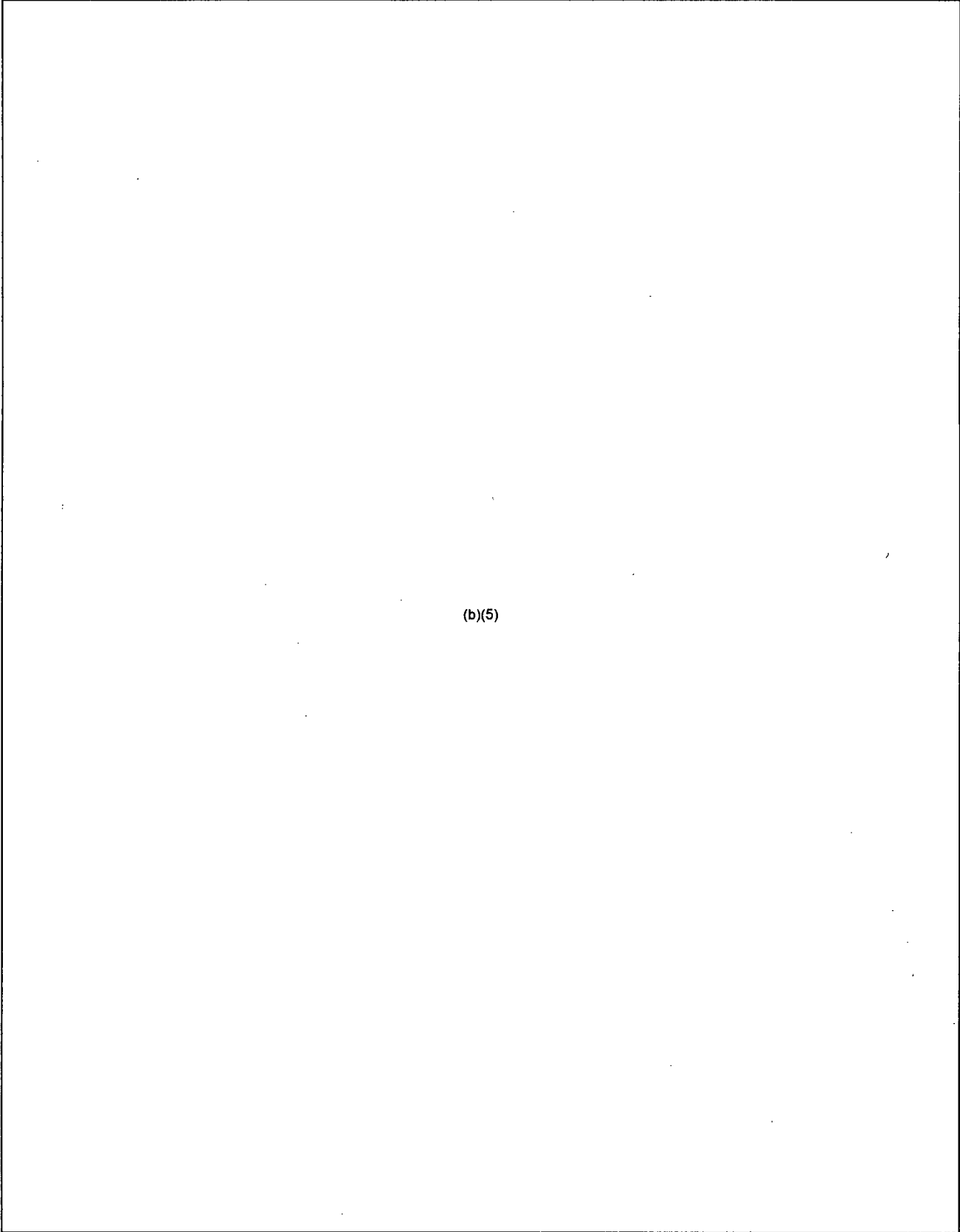
Cheers,

Karen

*Dr. Karen Henderson
Senior Level Foreign Policy Advisor
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Tel: 301.415.0202
Fax: 301.415.2395
Email: Karen.Henderson@nrc.gov*

Alternatives to Providing Ambassador Roos with Same Level of Support in Japan

(b)(5)



(b)(5)

From: Wittick, Brian
Sent: Monday, April 18, 2011 6:07 AM
To: Wittick, Brian; Doane, Margaret; Mamish, Nader
Cc: LIA08 Hoc; LIA02 Hoc; Foggie, Kirk; Abrams, Charlotte; Emche, Danielle
Subject: RE: Read out from 4/18 meetings
Attachments: Meeting results 4-18.docx

Margie,

Attached please find the results of the Monday meeting.

(b)(5)

(b)(5)

VR/
Brian

Summary – 4/18

NISA/TEPCO Meeting

The NISA/TEPCO meeting focused on plant status and discussions of the TEPCO “Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station,” which is a high level guide discussing the big picture steps for bringing the reactors and spent fuel pools to a stable cooling condition, and mitigating the release of radioactive materials. This report was big news in the local media, some applauding TEPCO openly communicating their recovery plan, others criticizing TEPCO for planning to take nine months for their recovery plan.

The meeting began with the RST lead stating the new team (which had changed out over the weekend) had reviewed all of the data and concurred with the previous team’s assessment that NRC believed more emphasis was needed on diversity and redundancy for the site cooling systems. Nei countered with a request that NRC provide him detail on exactly what measures and systems we were recommending.

When asked about the level of activity on the site TEPCO provided there were 778 people directly at the site and 150 people at a staging area working support. This was a bit higher than the level of activity most expected. TEPCO also noted they had employed a “U.S. robot” at the site for monitoring activities and some debris clearing and thanked the U.S.

Speaking of thanks, a number of NRC personnel have recently received unsolicited thanks from Japanese citizens for their support and presence in Japan; it happened with me today from a cabbie enroute to a meeting at NISA.

Nei scheduled a special meeting of a PRA subgroup for Tuesday to discuss risk insights and structural assessment of #4 SFP. He said the subgroup is known in NISA as the “Excitement Group” because of their lively discussions.

In a sidebar with Bannai I discussed our efforts to support their request for TMI lessons learned. See separate emails on the subject.

From: Shaffer, Mark R <ShafferMr@state.gov>
Sent: Monday, April 18, 2011 1:51 AM
To: Shaffer, Mark R; Doane, Margaret; Mamish, Nader
Subject: RE: Roadmap to restore stability at Fukushima

Quick correction...I meant to say they are flooding "Unit 1." Unit 2-3 will continue to be cooled by current injection method.

This email is UNCLASSIFIED.

From: Shaffer, Mark R
Sent: Monday, April 18, 2011 7:46 AM
To: 'Doane, Margaret'; 'Mamish, Nader'
Subject: FW: Roadmap to restore stability at Fukushima

Yesterday afternoon (Tokyo time), Japan's METI, NISA and TEPCO publically announced their plan to restore the Fukushima NPP to stable cooling condition and mitigation of the release of radioactive material. The plan aims for "cold-shutdown" of reactors 1-3 within six to nine months. The plan begins with flooding the pressure containment vessels of Units 1-3 up to the top of the active fuel.

Attached is the plan for those who are interested in the details. Page one is an overview of the plan.

Mark

This email is UNCLASSIFIED.

From: Ramsey, Jack
Sent: Sunday, April 17, 2011 10:21 PM
To: Doane, Margaret; Mamish, Nader; Henderson, Karen
Subject: RE: One-pager to support Conversation about Reducing Team
Attachments: One Pager on Fukushima Long-Term.docx; Alternatives to Providing Ambassador with Same Level of Support JER.docx

Importance: High

All,

Attached please find two files. The first contains my comments (minor comments) on Margie's draft. The second is a draft I prepared.

(b)(5)

Could we schedule an informal call Monday morning to discuss? I'm reachable by Blackberry on (b)(6).

Lastly, sorry for the delay in getting this out. The storms yesterday kept us awfully busy (for fire/rescue). We've already pulled two people out of swollen creeks (people that tried to drive across flooded creeks).

Jack

-----Original Message-----

From: Doane, Margaret
Sent: Sunday, April 17, 2011 2:51 PM
To: Ramsey, Jack; Mamish, Nader; Henderson, Karen
Subject: One-pager to support Conversation about Reducing Team
Importance: High

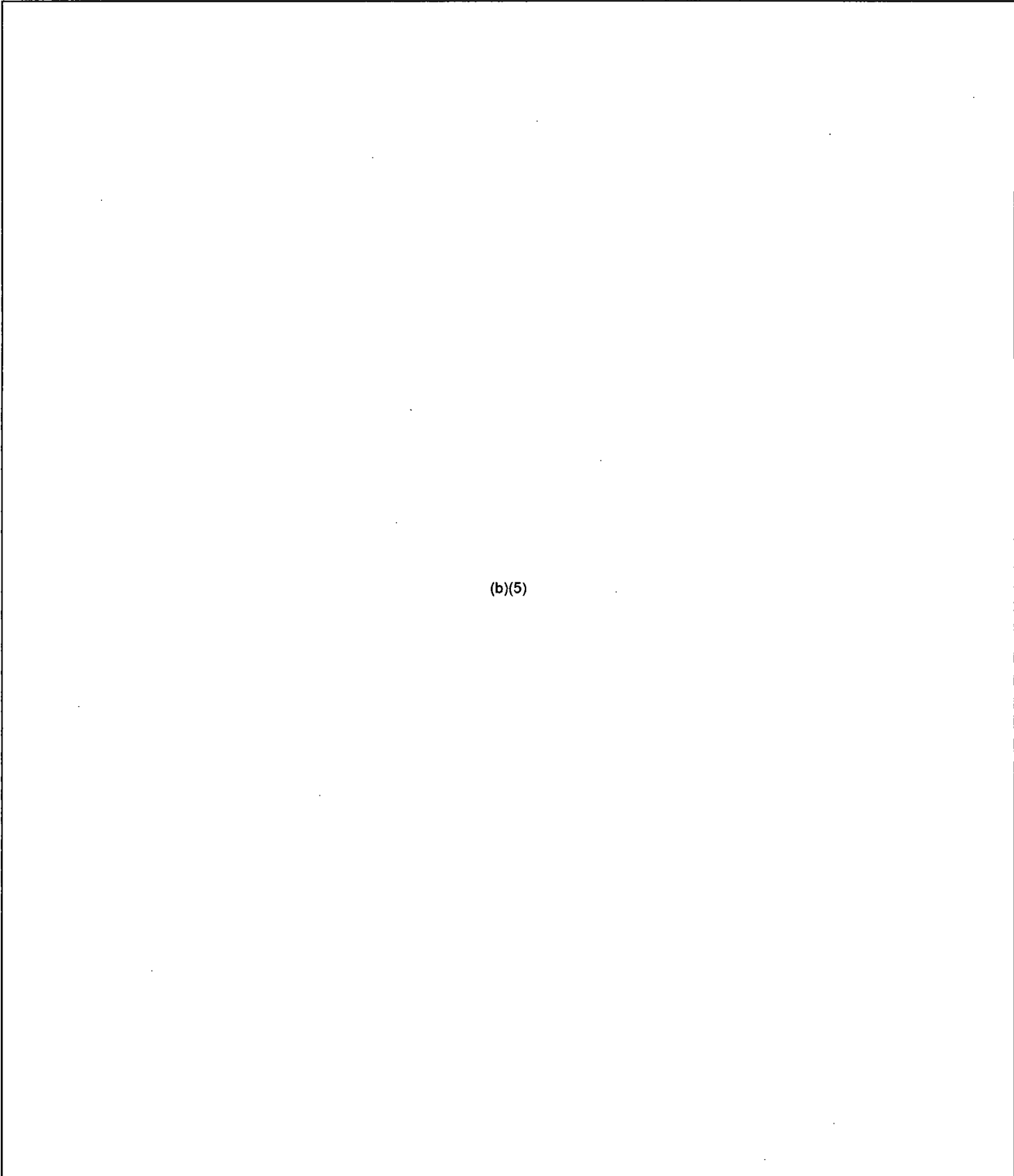
Here is the one-pager that Nader and I discussed with Marty, Mike, etc. on Friday afternoon. (b)(5)

(b)(5). They'd like to get this by Monday morning. Please edit as soon as possible (b)(5). Can you please acknowledge receipt of the message.

Margie

Alternatives to Providing Ambassador with Same Level of Support

In Japan

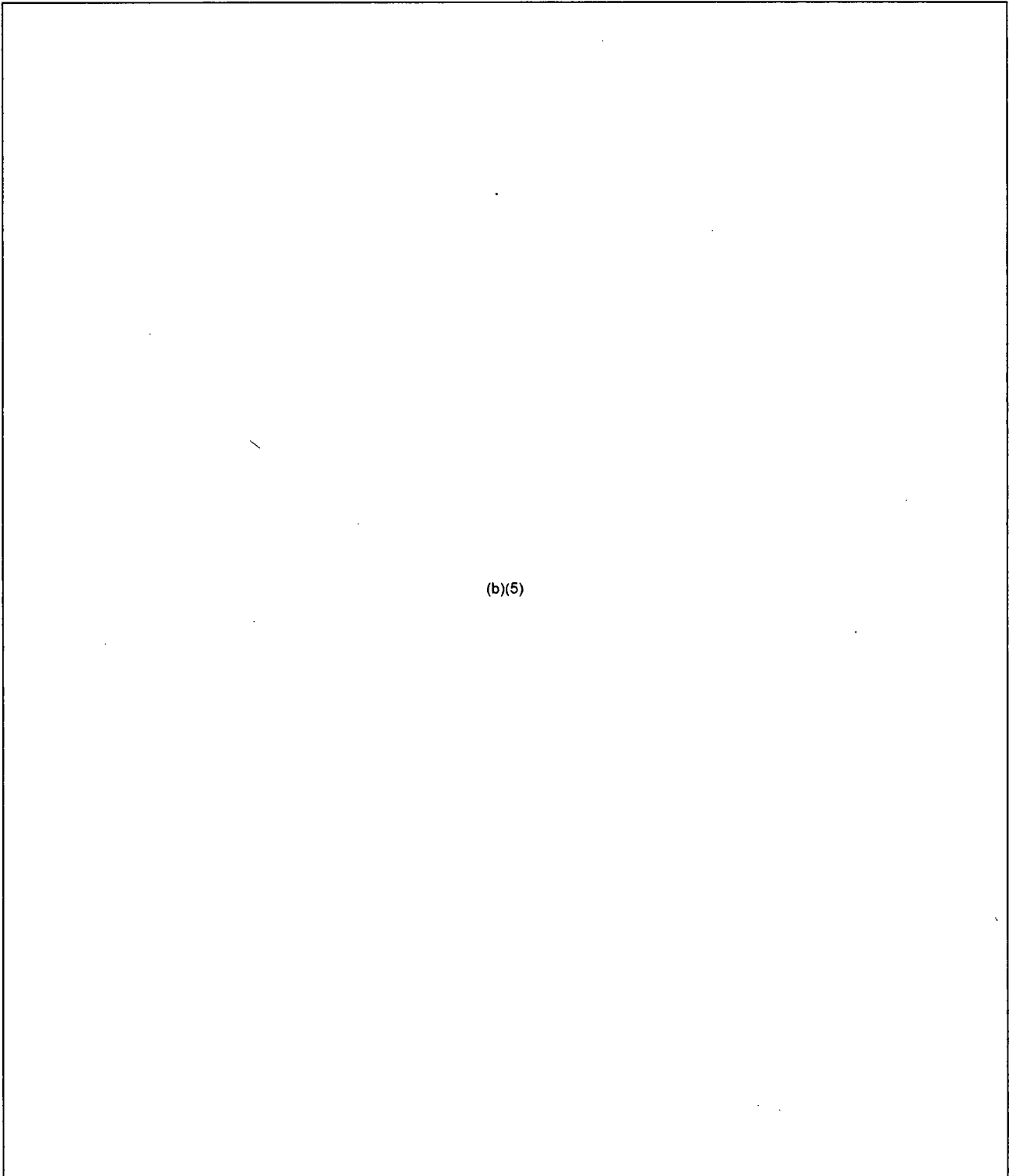


(b)(5)

(b)(5)

Alternatives to Providing Ambassador with Same Level of Support

In Japan



(b)(5)

(b)(5)

SUPPORT TO U.S. EMBASSY TOKYO

(b)(5)

From: Doane, Margaret
Sent: Sunday, April 17, 2011 7:43 PM
To: 'ShafferMr@state.gov'
Cc: Mamish, Nader; Ramsey, Jack
Subject: Fw: Communication Plan draft document
Attachments: Communication Plan for Fukushima Events.docx

Mark, please handle with utmost sensitivity. Do not distribute as it is just a draft.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Wittick, Brian
To: Virgilio, Martin
Cc: Reynolds, Steven; Casto, Chuck; ET02 Hoc; Hoc, PMT12; Henderson, Karen; Doane, Margaret; Foggie, Kirk; Mamish, Nader
Sent: Thu Apr 14 20:50:34 2011
Subject: FW: Communication Plan draft document

Marty,

Attached is the draft of a communication plan we are in dialogues with NISA on developing. An early version of this was provided to NISA (did not have the DOE input) yesterday and we are hoping to get feedback from them today.

VR
Brian

From: Wittick, Brian
Sent: Thursday, April 14, 2011 7:09 PM
To: 'christopher.smith@nnsa.doe.gov'
Cc: Casto, Chuck; Reynolds, Steven
Subject: FW: Communication Plan draft document

Chris,

Thanks for the information last night. Attached is the document that incorporates what we have discussed. Please review and provide feedback soonest as I would like to be able to dialogue with NISA about the changes at our morning meeting.

Thanks
Brian

From: Wittick, Brian
Sent: Thursday, April 14, 2011 2:03 AM
To: 'nei.hisanori@meti.go.jp'

Cc: 'bannai-toshihiro@meti.go.jp'; 'oshima-toshiyuki@meti.go.jp'; Casto, Chuck
Subject: Communication Plan draft document

Dear Nei-san,

Attached please find the draft copy of the communication plan we discussed at today's meeting. Following our conversation I received a request from our Department of Energy to include inputs from a monitoring system they are developing; I will inform you if we have proposed changes to the draft document.

I thank you for your consideration of this communication plan request pertaining to the Fukushima Daiichi site and look forward to your comments.

Kind regards,
Brian Wittick

From: Wittick, Brian
Sent: Wednesday, April 13, 2011 4:04 AM
To: 'nei.hisanori@meti.go.jp'
Cc: Collins, Elmo
Subject: NRC Information Coordination Request

Dear Nei-san

At the Cabinet meeting last Friday Hosono-san had agreed to establish a system for notification should a further significant event occur at the Fukushima site, such as the large earthquake on Monday that resulted in a loss of the emergency cooling services. We would like to meet with whoever will be responsible for such notifications to establish the details of the notification process and appreciate your assistance to put me in communication for the discussions.

Thank you for your assistance.

Kind regards,
Brian Wittick
U.S. NRC Liaison Team

(b)(6)

Full Name: Joyce Connery
Last Name: Connery
First Name: Joyce

E-mail: (b)(6)
E-mail Display As: Joyce Connery (b)(6)

From: Doane, Margaret
Sent: Sunday, April 17, 2011 9:53 AM
To: Mamish, Nader; 'Shaffer, Mark R'
Subject: RE: ?? Chairman's Recommendation !!!

Mark,

(b)(5)

We need to talk today ASAP - Sunday. Are you two available, I'm here until 12:30 DC time. (b)(5)
(b)(5). My number is (b)(6) at home. Mobile (b)(5).

Margie

From: Mamish, Nader
Sent: Sunday, April 17, 2011 8:31 AM
To: 'Shaffer, Mark R'
Cc: Doane, Margaret
Subject: RE: ?? Chairman's Recommendation !!!

This is news to me, and I'm certain this will be news to Margie, and others in OIP. We'll try to get the document.

Rather than e-mailing back and forth, I suggest we talk tomorrow about strategy.

-----Original Message-----
From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Saturday, April 16, 2011 4:33 AM
To: Mamish, Nader
Subject: ?? Chairman's Recommendation !!!

(b)(5)

Please help me...

From: Fragoyannis, Nancy
Sent: Friday, April 15, 2011 5:54 PM
To: Krupa, Melissa M
Cc: Goorevich, Richard; Solit, James; Doane, Margaret; Smith, Gretchen (CONTR); Mendelsohn, Kasia; Schwartzman, Jennifer; Williams, Shawn; Mamish, Nader
Subject: OOU IPC paper
Attachments: NSC interface.doc.docx

Hi Melissa,

Attached is NRC's input to the safety/security interface paper for the upcoming IPC meeting. We would like to

(b)(5)

We have a cable in draft from the Convention on Nuclear Safety which includes the discussion between Chairman Jaczko and DDG Flory which we will get to you when it is final.

Thanks and I look forward to working with you on this document.

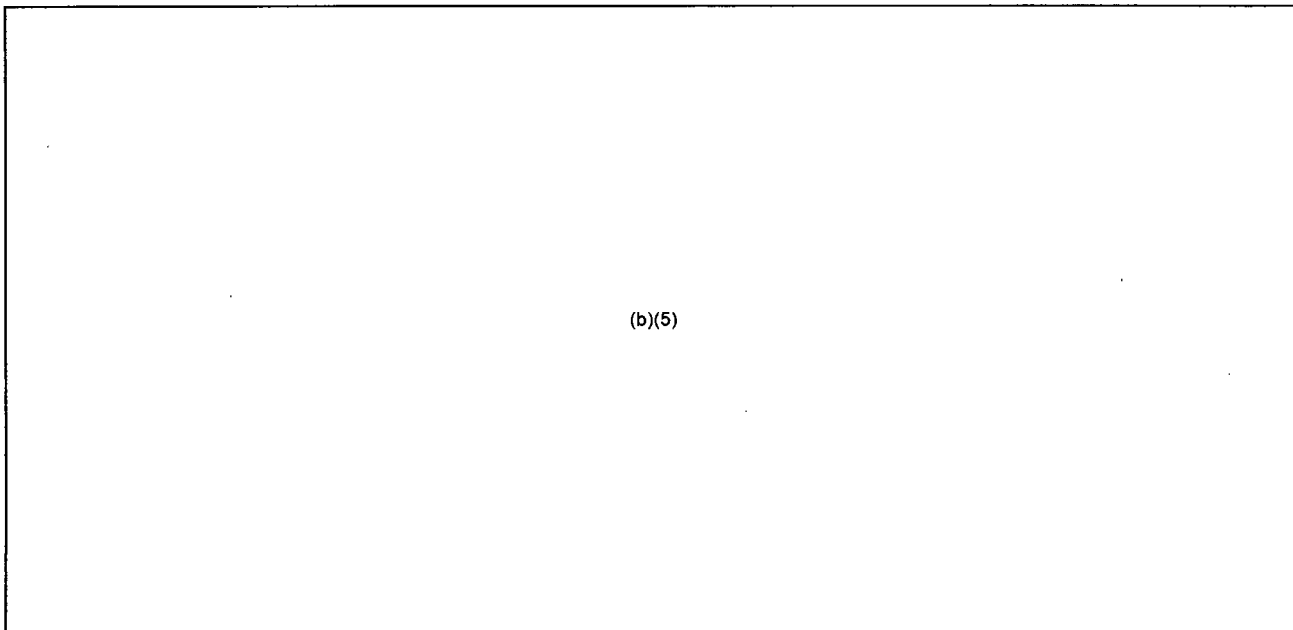
Nancy

Nancy Fragoyannis
Senior Level Advisor for Nonproliferation and
International Nuclear Security
Office of International Programs
U.S. Nuclear Regulatory Commission
301-415-8464

(b)(5)

(b)(5)

Official Use Only



(b)(5)

Official Use Only

From: Suttенberg, Jeremy
Sent: Friday, April 15, 2011 5:08 PM
To: Rothschild, Trip; Hirsch, Pat; Kim, Grace; Burns, Stephen; Dyer, Jim; Virgilio, Martin; Weber, Michael; Doane, Margaret
Subject: Japan Nuclear Assistance Meeting (04/15)
Attachments: Japan Nuclear Assistance Meeting Contact List.pdf

Attorney-Client Information

Today, I participated in an inter-agency meeting to discuss some legal issues involved with U.S. government assistance to Japan. Attorneys from State and DOE are flying to Tokyo on Tuesday to meet with their Japanese counterparts, and this was sort of a pre-meeting briefing. In attendance were lawyers from State, DOD, DOE, DOJ, and the NSC (a full attendance list is attached).

(b)(5)

(b)(5)

- Jeremy

Jeremy Suttenger
Attorney
Office of the General Counsel
U.S. Nuclear Regulatory Commission
(301) 415-2842
Jeremy.Suttenger@nrc.gov

Japan Nuclear Assistance Meeting Contact List

Name	Agency/Office	Phone	email
Bob Harris	STATE L/EAP	(202) 647-4035 (b)(6)	harris r2 @ state.gov
Hal Cohen	USAID GC	21712-5172	hcohen@usaid.gov
Jim Touhey	USDOJ-CIV	202 616-4292	james.touhey@usdoj.gov
Jeremy Suttnerberg	NRC-OGC	301-415-2842	jeremy.suttnerberg@nrc.gov
Michael Baker	NSS LEGAL	(b)(6)	
JONATHAN WELCH	DOJ/OFF. FOREIGN LT.	202-616-8147	jonathan.welch@usdoj.gov
ori Shoemaker (note: Heather Dresser will be lead after one today)	EAP/J (TDY) EAP/J	202-647-4459	shoemaker1a2@state.gov dresser-hl@state.gov
Jesse Tampio	State L/EAP	202-647-3794 (b)(6) (cell)	tampioaj@state.gov
Julie Herr	State L/NPV	202-647-1865	herrjk@state.gov
Holly Moore	State L/DC	202-647-9648	mooreh@state.gov
Julianne Bentes	State L/DL	202-647-2772	bentesjw@state.gov
Neha Sheth	State L/CID	202 776 8343	shethn@state.gov
Weg Pickering	State L/WA	202-647-7176	pickeringms@state.gov
Jennifer Gergen	State LT	202-647-2052	gergenja@state.gov
CARL TIERNEY	DoD OGC	303-644-4862	(b)(6)
Jason #111			

From: Andersen, James
Sent: Friday, April 15, 2011 4:48 PM
To: Mamish, Nader; Doane, Margaret
Cc: Muessle, Mary
Subject: OIP SPO from OEDO
Attachments: OIP by OEDO MY 2011.docx

Attached is the OEDO SPO input for OIP. If you would like to meet to discuss the input further, please let me know. Thanks for your support.

Jim Andersen
Deputy AO, TBPM, OEDO
415-1725

FY2011 Mid-Year Assessment of Offices

ASSESSMENT OF OIP by OEDO

Supporting Remarks:

- OIP exhibited excellent initiative in holding an International New Reactor Coordination Meeting to discuss the ongoing or planned international activities involving new reactors.
- OIP provided excellent support on international activities at the management and staff levels, through periodic meetings and personal contacts between the EDO/DEDO and OIP Office Director, and staff interactions.
- OIP provided outstanding support to OEDO during international and domestic conferences by coordinating bilateral discussions and preparing briefing materials for the senior managers.
- Following the earthquake and tsunami in Japan, OIP has been very supportive (e.g., supporting the operations center and Japan site team) as the agency has had to address a substantial increase in communication and correspondence.

Areas for Improvement:

- None.

From: Doane, Margaret
Sent: Friday, April 15, 2011 4:27 PM
To: Smith, Brooke
Cc: Schwartzman, Jennifer; Kreuter, Jane
Subject: RE: Japan Related Activities

Brooke,
Have a great week off. Thanks for everything.
Margie

From: Smith, Brooke
Sent: Friday, April 15, 2011 4:26 PM
To: Doane, Margaret
Cc: Schwartzman, Jennifer; Kreuter, Jane
Subject: RE: Japan Related Activities

Margie –

I'm out next week so I've copied Jen on this email.

Jen - Please remind Margie at stand up.

Brooke ☺

From: Doane, Margaret
Sent: Friday, April 15, 2011 3:56 PM
To: Kreuter, Jane
Cc: Smith, Brooke
Subject: RE: Japan Related Activities

Jane, can you put some time on my calendar. I'd like to make one of these sessions, please see below.

Brooke can you remind me at stand up to announce these sessions and to see if there is interest in a bake sale or other fundraiser – what about pennies for hope- bring in pennies, start a competition between branches or with another office, and see how much we raise, or something like that.... SECY might be willing...
Margie

From: Smith, Brooke
Sent: Friday, April 15, 2011 2:08 PM
To: OIP Distribution
Subject: Japan Related Activities

In case you are interested....

From Beth Mizuno in OGC

We have more than 3,210 folded cranes at HQ and over 300 in Region III as of noon April 15, 2011, Friday. Way to go, people!

Nuclear Reactor Regulation, Division of License Renewal is planning a bake sale for early May. They will also be selling wristbands -- I've seen the wristbands and they look great. See below for the April 15, 2011 NRC Announcement, "NRC's Hope for Japan". Keep an eye out for an announcement with firm dates for the events.

The schedule for folding sessions for the week of April 18 to 22 is as follows:

April 18, 2011 (M)	12:00 p.m. to 1:00 p.m.	OWFN-12-B6 (Elizabeth Deahl)
April 19, 2011 (T)	12:00 p.m. to 1:00 p.m.	OWFN-12-B6 (Christine Boote)
April 20, 2011 (W)	12:00 p.m. to 1:00 p.m.	OWFN-12-B6 (Lisa Regner)
April 21, 2011 (Th)	12:00 p.m. to 1:00 p.m.	TWFN-10-C2 (Susan Uttal)
April 22, 2011 (F)	12:00 p.m. to 1:00 p.m.	OWFN-12-B6 (Susan Uttal)

This is likely our last week of folding sessions, seeing as we are so close to our goal of 4000 -- so please come out and support the people leading these sessions. A number of new folders joined us at the Native American Advisory Committee Open House and it would be good for them to come to a session and find you there to mentor them.

I will be out of the office the week of April 18 to 22, so if you have any questions, please call Lisa Regner at (301) 415-3122.

Thank you for all you are doing, and all you have done. We're almost done with the folding part of this project -- and in such a short period of time. People have been so very generous, with their help, with their good wishes, with their contributions -- Domo Arigato Gozaimashita (Thank You Very Much).

April 15, 2011 - Event: NRC's Hope for Japan

Given the tragic events in Japan, several NRC team members decided to take steps toward providing further assistance to the relief efforts. Several fundraisers have been tentatively scheduled to give much needed support to Japan. Although there are no specific dates for some of the events YET, this is an awareness of what's to come.

TENTATIVE EVENTS

- Donation Box - Currently located at O-11 A08, Stanley Freeman's Desk
- Hope for Japan Wristbands - COMING SOON; will be available for \$2 each
- Bake Sale - COMING EARLY MAY; Plan to eat baked goods for lunch
- 6 Miles for Japan Run, Walk, or Roll - COMING MID-LATE MAY
- Gift Basket Silent Auction - A variety of gift baskets will be displayed for auction

Want to volunteer and help fundraise? Just contact one of the three listed contacts; they'll put you to work. Attached you will find the [NRC's Hope for Japan Flyer](#). Thanks!

Contacts:

[April BeBault](#), NRR (301-415-3760)
[Arthur Cunanan](#), NRR (301-415-3897)
[Stanley Freeman](#), NRR (301-415- 3169)

From: Sheron, Brian
Sent: Friday, April 15, 2011 1:45 PM
To: Virgilio, Martin; Williams, Shawn
Cc: Doane, Margaret; Mamish, Nader; Andersen, James; Weber, Michael; Muessle, Mary
Subject: RE: Pre-Trip_DL- Paris 2011.doc

I agree. [redacted (b)(5)]
[redacted (b)(5)]. Guidance on what they should say would be very helpful.

From: Virgilio, Martin
Sent: Friday, April 15, 2011 1:41 PM
To: Sheron, Brian; Williams, Shawn
Cc: Doane, Margaret; Mamish, Nader; Andersen, James; Weber, Michael; Muessle, Mary
Subject: RE: Pre-Trip_DL- Paris 2011.doc

Thanks, Brian

I believe it would help to have a script that she could work from. One way to help align our travelers would be to have them review the Q&As that NRR developed and posted on their sharepoint site. There may be other required readings such as the Chairman's testimony at this week's Senate hearings. OEDO and OIP need to align on an approach.

Shawn/Jim

Can you please take the lead for us and work with OIP to develop and approach

Marty

From: Sheron, Brian
Sent: Friday, April 15, 2011 1:30 PM
To: Virgilio, Martin; Williams, Shawn
Cc: Doane, Margaret; Mamish, Nader; Andersen, James; Weber, Michael; Muessle, Mary
Subject: RE: Pre-Trip_DL- Paris 2011.doc

[redacted (b)(5)]

From: Virgilio, Martin
Sent: Friday, April 15, 2011 1:18 PM
To: Williams, Shawn
Cc: Doane, Margaret; Mamish, Nader; Andersen, James; Sheron, Brian; Weber, Michael; Muessle, Mary
Subject: FW: Pre-Trip_DL- Paris 2011.doc

Shawn

Please confirm this trip is being assessed and supported (if appropriate) in light of OIP's efforts to coordinate international travel related to Fukushima.

(b)(5)

Do we need to issue guidance to our program office directors on this matter?

Marty

From: Bano, Mahmooda
Sent: Friday, April 15, 2011 1:14 PM
To: RES International Travel Dist; Eisenberg, Wendy
Cc: Lewis, Doris
Subject: Pre-Trip_DL- Paris 2011.doc

Pre-Trip for Doris Lewis and Derek Hagemeyer (contractor) for Paris, France on 5/21- 29/2011

International Travel Pre-Trip Notification

This is due 30 days before trip start date. Please complete the light shaded area.

TRAVEL INFORMATION

• Traveler Name(s): (include Office/Division)	Ms. Doris Lewis, RES/DSA Mr. Derek Hagemeyer, DOE/ORAU	• Phone #(s):	301-251-7559 865-241-3615
• E-mail Address(es):	Doris.Lewis@nrc.gov Derek.Hagemeyer@orise.orau.gov	• Location(s):	CSB-3C38 DOE/ORAU
• Multiple Travelers:	<input checked="" type="checkbox"/> Less than 4 <input type="checkbox"/> 4 or more (see below)		
If 4+, Coordinating Office:	RES		
If 4+, Office Director Approvals:	(1)	CHOOSE ONE OF THE FOLLOWING	Date: _____
<i>(Office Director approves travelers</i>	(2)	CHOOSE ONE OF THE FOLLOWING	Date: _____
<i>from his/her office only)</i>	(3)	CHOOSE ONE OF THE FOLLOWING	Date: _____
	(4)	CHOOSE ONE OF THE FOLLOWING	Date: _____
ADAMS Accession Number: [If 4+, Submit NRC Daily Note with ML# of pre-trip notification 30 days before trip start date]			
• Travel Dates [mm/dd/yyyy]:	05/21/2011 - 05/29/2011		
• Destination(s) [City, Country]:	Paris, France		
• Framework:	<input type="checkbox"/> Export and Import Licensing <input type="checkbox"/> Multilateral Cooperation and Assistance <input type="checkbox"/> Treaties, Agreements, and Conventions <input checked="" type="checkbox"/> International Cooperative Research <input type="checkbox"/> Bilateral Cooperation and Assistance <input type="checkbox"/> Other (specify)		
• International Organization:	<input type="checkbox"/> NEA/CSNI <input type="checkbox"/> NEA/CNRA <input type="checkbox"/> NEA/RWMC <input type="checkbox"/> NEA/MDEP <input type="checkbox"/> NEA/CRPPH <input type="checkbox"/> IAEA/NS(TRANSSC) <input type="checkbox"/> IAEA/NS(WASSC) <input type="checkbox"/> IAEA/(NUSSC) <input type="checkbox"/> IAEA/NS(RASSC) <input type="checkbox"/> IAEA/Safeguards <input type="checkbox"/> IAEA/NS <input type="checkbox"/> IAEA/NE <input type="checkbox"/> IAEA/Technical Cooperation <input checked="" type="checkbox"/> Other: IAEA/NEA - Information System on Occupational Exposure (ISOE)		
• Purpose of Travel:	To attend and participate in the ISOE Bureau and Working Group on Data Analysis Meetings.		
• Desired Outcome:	<p style="text-align: center;">Outside of Scope</p> <p style="text-align: right;">In addition, discussions will be held regarding the events in Japan and the support actions being taken by the NEA and IAEA.</p>		
• Traveler Role(s):	Ms. Lewis is the PM for the NRC's Radiation Exposure Information and Reporting System (REIRS) database and is the US NRC Representative on the ISOE		

	Management Board.
	Outside of Scope
• Is this an NRC Core or Non-Core Trip? [Core means NRC-Funded. Non-Core is externally funded or travel to Canada]	<input checked="" type="checkbox"/> Core <input type="checkbox"/> Non-Core
• Is there a speech or presentation to be given? [[If yes, send ADAMS ML# of presentations in an EDO One Week Look Ahead]	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
• Are policy issues or other items of Commission interest to be raised?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, how will the Commission be informed?	

From: Doane, Margaret
Sent: Friday, April 15, 2011 1:34 PM
To: Virgilio, Martin; Leeds, Eric; Weber, Michael
Cc: Mamish, Nader
Subject: RE: Replacement for Chuck Casto in Japan

I'm available until 3:30 and would appreciate a meeting.

From: Virgilio, Martin
Sent: Friday, April 15, 2011 12:56 PM
To: Leeds, Eric; Doane, Margaret; Weber, Michael
Cc: Mamish, Nader
Subject: RE: Replacement for Chuck Casto in Japan

Eric/Margie

Suggest we meet and align on the candidate. This will need to be approved by the Chairman (and I would suggest presented to the Ambassador).

Marty

From: Leeds, Eric
Sent: Friday, April 15, 2011 11:51 AM
To: Doane, Margaret; Virgilio, Martin; Weber, Michael
Cc: Mamish, Nader
Subject: Re: Replacement for Chuck Casto in Japan

(b)(5),(b)(6)

From: Doane, Margaret
To: Virgilio, Martin; Weber, Michael; Leeds, Eric
Cc: Mamish, Nader
Sent: Fri Apr 15 10:38:40 2011
Subject: RE: Replacement for Chuck Casto in Japan

Marty,

(b)(5),(b)(6)

Margie

From: Virgilio, Martin
Sent: Friday, April 15, 2011 10:34 AM
To: Weber, Michael; Leeds, Eric

Cc: Doane, Margaret; Mamish, Nader
Subject: Replacement for Chuck Casto in Japan

Margie

Does OIP have a view?

Marty

From: Weber, Michael
Sent: Friday, April 15, 2011 10:31 AM
To: Leeds, Eric
Cc: Virgilio, Martin; Borchardt, Bill
Subject: RESPONSE -- Replacement for Chuck Casto in Japan

Chairman on board?

From: Leeds, Eric
Sent: Friday, April 15, 2011 8:23 AM
To: Virgilio, Martin; Weber, Michael
Cc: Evans, Michele; Wiggins, Jim; McCree, Victor; Dean, Bill; Doane, Margaret; Mamish, Nader
Subject: FYI - Replacement for Chuck Casto in Japan

(b)(5),(b)(6)

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Sheron, Brian
Sent: Friday, April 15, 2011 1:32 PM
To: Virgilio, Martin; Weber, Michael
Cc: Doane, Margaret
Subject: FW: Password restricted NEA webpage - activities post-Fukushima
Attachments: image001.gif

I also sent an e-mail to Greg Lamarre last week in response to an NEA request (see below).

From: Greg.LAMARRE@oecd.org [mailto:Greg.LAMARRE@oecd.org]
Sent: Friday, April 15, 2011 11:30 AM
To: Sheron, Brian
Subject: RE: Password restricted NEA webpage - activities post-Fukushima

Brian,

Thanks for your assistance in this matter.

Best Regards,
Greg

From: Sheron, Brian [mailto:Brian.Sheron@nrc.gov]
Sent: Friday, April 08, 2011 20:57
To: LAMARRE Greg, NEA/SURN
Subject: RE: Password restricted NEA webpage - activities post-Fukushima

Greg, I have instructed my staff that participate on CSNI WGs and the PRG **not to post anything on the NEA web page** about U.S. activities regarding Fukushima. None of these individuals are authorized spokespersons for the NRC, much less the U.S. I will forward your request to our Office of International Programs.

From: Greg.LAMARRE@oecd.org [mailto:Greg.LAMARRE@oecd.org]
Sent: Friday, April 08, 2011 9:58 AM
Subject: NEA: Password restricted NEA webpage - activities post-Fukushima

Dear CSNI, PRG and WG members,

I would like to bring to your attention a new password protected NEA webpage.

It is a central page for the exchange of information regarding national activities following Fukushima entitled *Exchange of Information on Fukushima*.

This central page is accessible to all CNRA, CSNI, PRG and WG members. You can access the page-link through your password protected working area.

We will continue to post information as we are advised. I would ask that you please continue to share your national activities in response to the Fukushima event with the NEA Secretariat such that we can ensure that the site remains up-to-date and useful to members.

Thanks in advance and best regards,

Greg



Greg Lamarre

Nuclear Safety Division

OECD Nuclear Energy Agency (NEA)

Tel.: +33 (0)1 45 24 10 53

greg.lamarre@oecd.org

Update your bookmarks!

On 1 December 2010, the NEA is moving to:

www.oecd-nea.org

From: Fragoyannis, Nancy
Sent: Friday, April 15, 2011 12:41 PM
To: Virgilio, Martin; Doane, Margaret
Cc: Brach, Bill; Shaffer, Mark R; Schwartzman, Jennifer; Layton, Michael
Subject: NSC interface.doc.docx
Attachments: NSC interface.doc.docx

Importance: High

Attached is the latest with comments from staff.

Please let me know if you have any comments.

Thanks

Nancy

(b)(5)

(b)(5)

(b)(5)

From: Metz, Patricia J <MetzPJ@state.gov>
Sent: Friday, April 15, 2011 12:29 PM
To: Doane, Margaret; Kenagy, W David; Shaffer, Mark R
Cc: Burkart, Alex R; Foggie, Kirk; Afshar-Tous, Mugeh; Abrams, Charlotte; Schwartzman, Jennifer; Jones, Andrea
Subject: RE: Briefing for E's mtg w/ Chinese MOF Vice Minister Zhu

Thanks. No rush for U/S Hormats briefing. It was at 11:30.

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Friday, April 15, 2011 11:04 AM
To: Kenagy, W David; Shaffer, Mark R
Cc: Metz, Patricia J; Burkart, Alex R; Foggie, Kirk; Afshar-Tous, Mugeh; Abrams, Charlotte; Schwartzman, Jennifer; Jones, Andrea
Subject: RE: Briefing for E's mtg w/ Chinese MOF Vice Minister Zhu

David,
The Chairman spoke with VM Li Ganjie, China's head safety regulator on the margins of the Convention on Nuclear Safety. We have a draft cable, I'll get that for you.
We'll also look at your TPs and get back with you.
Margie

From: Kenagy, W David [mailto:KenagyWD@state.gov]
Sent: Friday, April 15, 2011 3:36 AM
To: Shaffer, Mark R; Doane, Margaret
Cc: Metz, Patricia J; Burkart, Alex R
Subject: FW: Briefing for E's mtg w/ Chinese MOF Vice Minister Zhu

Margie
Under Secretary Hormats, Economic, Energy, and Agricultural Affairs, is meeting Chinese MOF Vice Minister Zhu and would like an uhas made a pdate regarding the nuclear situation in Japan and implications on nuclear energy. Please send NRC's latest status report. In addition, if NRC has made a statement in regard to implications for US nuclear power please send.

My proposed talking points in regard to implications of the accident would be:

(b)(5)

(b)(5)

From: Metz, Patricia J
Sent: Thursday, April 14, 2011 11:21 AM
To: Kenagy, W David
Subject: FW: Briefing for E's mtg w/ Chinese MOF Vice Minister Zhu

What's the latest on Japan for a high level briefing?

This email is UNCLASSIFIED.

From: Stratford, Richard J
Sent: Thursday, April 14, 2011 12:04 PM
To: Metz, Patricia J
Cc: Burkart, Alex R; Fladeboe, Jan P
Subject: FW: Briefing for E's mtg w/ Chinese MOF Vice Minister Zhu

Patte, are you the best person to do this?

This email is UNCLASSIFIED.

From: Motiwala, Mohammed
Sent: Thursday, April 14, 2011 11:48 AM
To: Stratford, Richard J
Cc: Cekuta, Robert F
Subject: FW: Briefing for E's mtg w/ Chinese MOF Vice Minister Zhu

Dear Dick,

U/S Hormats would like a briefing tomorrow regarding the nuclear situation in Japan and implications on nuclear energy and would like an ISN rep (see below).

I can quickly pull together some points on nuclear, but I wanted to know who from your office would like to brief U/S Hormats (my apologies if this request belong somewhere else in ISN).

Sincerely,

Mohammed

This email is UNCLASSIFIED.

From: Patel, Vishal P
Sent: Thursday, April 14, 2011 11:39 AM
To: Cekuta, Robert F
Cc: Tezera, Hanna; Motiwala, Mohammed; Gallogly, Stephen J; Yun, Sara S; Secor, Peter F
Subject: Briefing for E's mtg w/ Chinese MOF Vice Minister Zhu

Bob—

Hormats is having breakfast with Chinese MOF Vice Minister Zhu on Saturday morning. Energy will be a key topic, in

Outside of Scope

, and 3) nuclear situation in Japan and implications on nuclear energy writ large. I need a few things:

1. Briefing for E tomorrow afternoon with Bob Cekuta and ISN rep. (please work with Hannah to schedule a time)
2. Informal paper/points on the issues noted above (re nuclear energy: note the President's speech and blueprint doesn't rule out nuclear)

3.

Outside of Scope

Thanks, -vp

--
Vishal Patel, Ph.D.
Special Assistant
Office of the Under Secretary of State for
Economic, Energy, and Agricultural Affairs
U.S. Department of State
Tel: 202-647-7327, E-mail: patelvp@state.gov

From: Weber, Michael
Sent: Friday, April 15, 2011 11:04 AM
To: Leeds, Eric
Cc: Miller, Charles; Evans, Michele; Sheron, Brian; Wiggins, Jim; Doane, Margaret; Virgilio, Martin; Mamish, Nader
Subject: RESPONSE - CNRA: Senior Task Group on Impacts of Fukushima
Attachments: image001.gif

(b)(5)

From: Leeds, Eric
Sent: Friday, April 15, 2011 8:21 AM
To: Virgilio, Martin; Weber, Michael; Doane, Margaret
Cc: Miller, Charles; Holahan, Gary; Grobe, Jack; Boger, Bruce; Evans, Michele; Givvines, Mary; Johnson, Michael; Sheron, Brian; Wiggins, Jim
Subject: CNRA: Senior Task Group on Impacts of Fukushima

FYI – Michele Evans is the USA rep on the Task Group. The Task Group’s charter is attached.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]
Sent: Friday, April 15, 2011 5:55 AM
Subject: CNRA: Senior Task Group on Impacts of Fukushima

Dear CNRA members and STG members –

Please find attached the initial meeting notification for the CNRA Senior-level task group on the impacts of the Fukushima Accident.

Included in the meeting notification is the 30 March letter from Mike Weightman concerning the establishment of the group and the request for nominations. Additionally, a draft charter is attached.

Nominations and comments are always welcome.

Best regards,



Diane Jackson, Nuclear Safety Specialist
Nuclear Safety Division, OECD Nuclear Energy Agency (NEA)
Tel.: +33 (0)1 45 24 10 55, Diane.Jackson@oecd.org

From: Williams, Shawn
Sent: Friday, April 15, 2011 9:20 AM
To: Fragoyannis, Nancy; Doane, Margaret; Schwartzman, Jennifer; Brach, Bill; Layton, Michael; Virgilio, Martin
Subject: RE: National Security Council Summary document in preparation to come to a U.S.G position for IAEA safety and security publications - Shawn comments
Attachments: Example Safety Standard preface verbiage ML1108206400.doc

See page 5 of the attached.

(b)(5)

Shawn

From: Diec, David
Sent: Friday, April 15, 2011 8:34 AM
To: Williams, Shawn; Fragoyannis, Nancy; Doane, Margaret; Schwartzman, Jennifer; Brach, Bill; Layton, Michael; Virgilio, Martin; Shaffer, Mark R
Cc: Case, Michael; Camper, Larry; Lewis, Robert; Cool, Donald; Kasputys, Clare; Andersen, James; Jones, Cynthia
Subject: RE: National Security Council Summary document in preparation to come to a U.S.G position for IAEA safety and security publications - Shawn comments

Attached are my comments.

From: Williams, Shawn
Sent: Thursday, April 14, 2011 4:39 PM
To: Fragoyannis, Nancy; Doane, Margaret; Schwartzman, Jennifer; Brach, Bill; Layton, Michael; Virgilio, Martin; Shaffer, Mark R
Cc: Case, Michael; Camper, Larry; Lewis, Robert; Cool, Donald; Kasputys, Clare; Andersen, James; Diec, David; Jones, Cynthia
Subject: National Security Council Summary document in preparation to come to a U.S.G position for IAEA safety and security publications - Shawn comments
Importance: High

All,

Attached are my comments. Bill Brach mentioned he can review the document this evening before he
tomorrow. I will also be out of the country next week unable to provide further feedback.

(b)(6)

(b)(5)

Margie mentioned that OIP would like something final by COB tomorrow. So if any of you have further comments please provide them to Nancy by COB tomorrow.

Thanks,
Shawn Williams
Executive Technical Assistant (International Activities and the Office of New Reactors)
Office of the Executive Director for Operations
301-415-1009

From: Fragoyannis, Nancy
Sent: Thursday, April 14, 2011 12:20 PM
To: Doane, Margaret; Schwartzman, Jennifer; Williams, Shawn; Brach, Bill
Subject: NSC interface.doc.docx
Importance: High

Per our meeting this am, attached is a draft paper, 1.5 pages. I tried to keep it short but explain the options. I

(b)(5)

Let me know if you want more or less.

(b)(5)

(b)(5)

Nancy

(b)(4),(b)(5)

FOREWORD
[standard text to be inserted at publishing stage]

**PREFACE BY THE JOINT
SPONSORING ORGANIZATIONS**

[to be written by the joint sponsoring organizations]

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MAY 14 2012
U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C.

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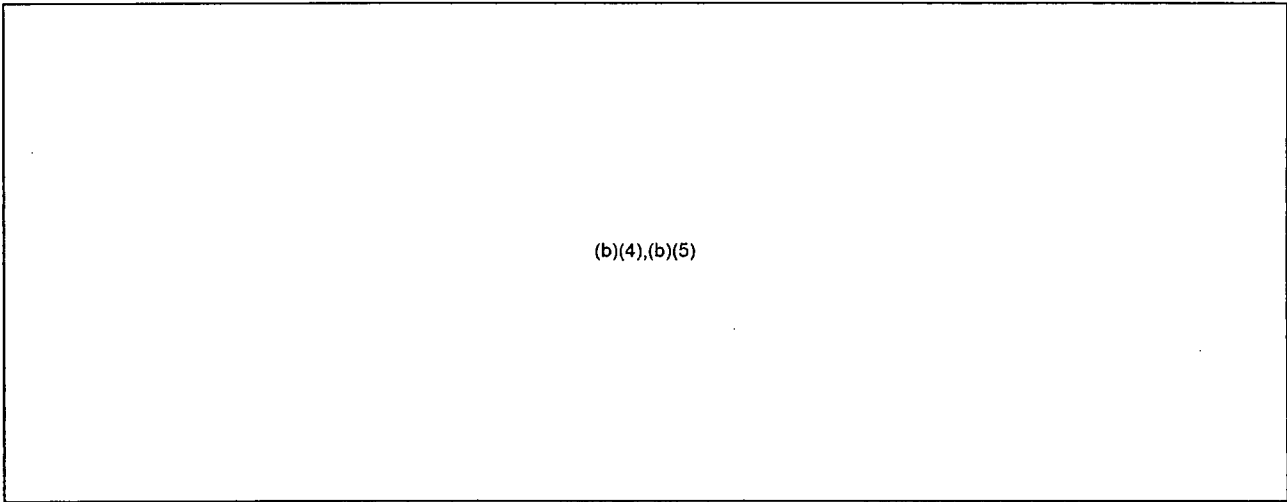
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From: Wittick, Brian
Sent: Friday, April 15, 2011 8:52 AM
To: Mamish, Nader; Doane, Margaret; LIA02 Hoc; LIA08 Hoc; Foggie, Kirk; Abrams, Charlotte; Bloom, Steven
Subject: Fw: FOR YOUR APPROVAL
Attachments: APRIL 15 SITREP.docx

Margie

Attached please find a comprehensive summary of a long days worth of meetings and negotiations.

(b)(5)

There are no meetings scheduled over the weekend so I don't expect there will be anything to report.

VR

Sent from NRC BlackBerry
Brian Wittick

(b)(6)

From: Awan, Riaz X (Sofia - DOE) <AwanRX@state.gov>
To: Blamey, Alan; Moore, Carl; Garchow, Steve; Wittick, Brian; Mitman, Jeffrey
Sent: Fri Apr 15 08:34:06 2011
Subject: FOR YOUR APPROVAL

Carl/Steve/Jeff – I sincerely apologize for sending you this late on Friday night. I will be grateful if I could please get your approval/comments on the attached summary of the meetings (also pasted below) by 10:00 AM Saturday morning as I need to send the final cleared version to the Embassy Political/Economic Section by 11:00 am tomorrow morning to be folded into an overall embassy cable.

Brian - (b)(5)

Alan - It was my great pleasure and privilege to work with you over the last two weeks. I sincerely enjoyed our interactions – especially your great professionalism. It will be my great honor to host you in Bulgaria and/or in the Southeast Europe or Central Europe. I will be in touch and bug you – I hope you won't mind!!

Riaz Awan

April 15 Meeting with NISA and TEPCO: In a daily scheduled meeting on April 15, the U.S. Nuclear Regulatory Commission (NRC) discussed status of the actions related to stabilizing the Fukushima Daiichi reactors with the Nuclear Industrial Safety Agency (NISA), Japan Nuclear Energy Safety (JNES), and Tokyo Electric Power Company (TEPCO). Representatives from the U.S. Department of Energy (DOE), DOE's Pacific Northwest National Laboratory, and the Institute of Nuclear Power Operations (INPO)/U.S. Industry Consortium also attended the meeting.

- The parameters for Fukushima reactors continue to remain relatively static and there are no fluctuations and/or changes. On April 14, a malfunction in the operation of the compressor mounted skid valve interrupted nitrogen injection into the Unit 1 dry well for approximately 2.5 hours. After the repairs, nitrogen injection successfully resumed and continues at a stable flow rate of 28 cubic meters per hour into the Unit 1 dry well. TEPCO continues to inject water at the rate of 6, 7 and 7 cubic meters per hour for Units 1, 2 and 3 respectively. For spent fuel pools (SFP), 25 tons of water was injected into the unit 3 SFP on April 14 and TEPCO plans to pump 140 tons water into the Unit 4 SFP. Both Units 5 and 6 reactors are being maintained in the cold shut down mode.
- NRC noted that the reliability of Fukushima reactors' instrumentation is in question, specifically Unit 1 dry well radiation monitor and pressure channel including wide variety of temperature indications for Units 2 and 3. NRC further advised that an extensive effort was undertaken to predict instrumentation failure at the Three Mile Island (TMI) reactor after the accident and inquired if TEPCO has such plans. TEPCO did not provide a direct reply and stated they will look into this issue and follow up with the U.S. side. (b)(5)
(b)(5) They believe that certain substantial changes are caused by external events such as nitrogen purge, water injection, and aftershocks. NRC appreciated TEPCO explanation and again highlighted TMI efforts that had gone into evaluating instrumentation for various factors such as noise level and how these techniques could be helpful for Fukushima. TEPCO welcomed receiving any information and/or material.
- TEPCO informed the U.S. participants that the Unit 1 dry well lower level switch shifted its position on April 14 indicating the water level is at an elevation of 14,486 millimeters. Taking into account heat removal and steam generation with the current feed flow rate of 6 cubic meters per hour, TEPCO believes that 3 cubic meters per hour of water is accumulating in the reactor pressure vessel. TEPCO is observing water level increase with the current flow rates and expects that level would reach top of active fuel at elevation of 23,990 millimeters on April 27. NRC recommended that alternative vent path other than the steam relief valve should also be evaluated.
- TEPCO stated that valuable information exchange has been taking place in regularly scheduled telephone conference calls with INPO and the U.S. Industry Consortium. The April 14 call primarily focused on treatment of highly radioactive water and U.S. participants provided very helpful suggestions in the areas where TEPCO lacks experience such as oil and sludge separation and proper selection of anti-corrosive materials to address sea water. TEPCO also appreciated different suggested approaches on remote control systems, maintenance and calibration of instruments and TEPCO experts would use these to develop detailed design packages for processing of the highly radioactive water.
- In response to NRC question about untreated radioactive water, TEPCO stated the plans to utilize the central radioactive waste processing building to store the highly contaminated water and further advised that they are in consultations with French company Areva on the treating issue and technologies.
- TEPCO could not provide an exact number of workers currently deployed at the Fukushima site engaged in the accident remediation work; however, the number will continue to increase according to TEPCO. The increase would be due to extensive civil engineering related work to stop any and all leakage, debris removal activities, and other redundancy and diversification measures implementation such as relocation of the diesel generators to higher grounds.
- TEPCO (b)(4) TEPCO has no plans to take additional samples. Sampling was conducted in a proper way and it meets the objectives of to what extent the fuel has been damaged, stated TEPCO. (b)(4)

(b)(4)

NRC

appreciated the explanation and reiterated the importance of ensuring fuel and SFP integrity especially there is a large source term.

- Regarding the alternative and redundancy plans, NISA has not yet received intermediate measures.

(b)(4)

April 15 Meeting with NISA, JNES and TEPCO: NRC and DOE attended a meeting with NISA and JNES where TEPCO provided detailed presentation of the Unit 4 SFP. The primary details focused on the samples and images that were obtained using camera and other systems on April 13. TEPCO stated that at the time of earthquake/tsunami, Unit 4 was in shutdown and 130 days had elapsed. There was no evidence that fuel had reached dry stage and TEPCO analysis indicates fuel is intact. TEPCO also indicated taking additional samples contrary to the statements made at an earlier meeting.

Communications Plan: NRC and DOE met with NISA to discuss criteria and procedure notification for notification communications plan between the Government of Japan and the NRC including U.S. Embassy Tokyo in case of events related to earthquake, loss of cooling capability, accident mitigation evaluation, and site evacuation.

From: Clapper, Maureen X <ClapperMX@state.gov>
Sent: Friday, April 15, 2011 6:27 AM
To: Henderson, Karen; Schwartzman, Jennifer; Doane, Margaret;
Edward.McGinnis@hq.doe.gov; Robert.Boudreau@nuclear.energy.gov;
michelle.scott@nuclear.energy.gov; andrea.duskas@nuclear.energy.gov; Miller, Charles;
Jonathan.Elkind@hq.doe.gov; Phyllis.Yoshida@hq.doe.gov;
Kimberly.Ballou@hq.doe.gov
Subject: On the horizon NEA meetings

I attended a briefing for energy advisors yesterday at NEA (b)(5)
(b)(5) - I am including a broader distribution for FYI.

(b)(5)

NEA DG Luis Echavarri and OECD Secretary General (SG) Gurría are traveling to Japan next week.

From: Skeen, David
Sent: Friday, April 15, 2011 5:19 AM
To: Doane, Margaret; Rodriguez, Veronica; Grobe, Jack
Subject: Fw: A few more wire stories from the CNS review press final press brief
Attachments: image001.jpg

Fyi - in case you haven't seen.

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Skeen, David; Borchardt, Bill
Sent: Fri Apr 15 05:08:54 2011
Subject: Fw: A few more wire stories from the CNS review press final press brief

From: Hall-Godfrey, Jennifer J
To: Shaffer, Mark R; 'Brenner, Eliot' <Eliot.Brenner@nrc.gov>
Cc: Cooper, Nathan J
Sent: Fri Apr 15 10:19:18 2011
Subject: A few more wire stories from the CNS review press final press brief

Bloomberg: Nuclear Regulators Delay Study of Fukushima Lessons Until 2012

By Jonathan Tirone - Apr 14, 2011

Nuclear powers ended a closed-door meeting by delaying for 16 months consideration of the failures that triggered the meltdown at [Japan's](#) Fukushima Dai-Ichi plant.

The 72-nation Convention on Nuclear Safety pledged to hold an extraordinary meeting in August 2012 to review the breakdown of safety systems at Fukushima, according to a seven-paragraph statement released today in Vienna.

"It is understood that the lessons-learned process cannot be completed until sufficient additional information is known and fully analyzed," according to the statement. "Japan has committed to provide this information as soon as possible."

Backup generators and cooling systems at the Fukushima Dai- Ichi station were knocked out by a 15-meter (49-foot) tsunami following a magnitude-9 earthquake on March 11, triggering the worst nuclear disaster since Chernobyl in 1986. Hydrogen explosions occurred as water in the reactors and spent-fuel ponds boiled away and radiation leaked into the air and sea.

Japan's representative to the meeting, Ichiro Ogasawara, thanked the regulators and industry participants for their "solidarity in the course of the review meeting" during "this crucial juncture in the history of the convention."

Signatories to the treaty, drafted after the 1986 Chernobyl meltdown in Ukraine, will also evaluate whether the convention does enough to promote nuclear safety when they meet next year.

"Nuclear safety is the very lifeline of nuclear power development," China's Li Ganjie, who presided at the meeting that began April 4 and ended today, said at a briefing. "It is a global issue. Members of the public have anxiety about nuclear safety issues."

Reuters: Nuclear forum backs safety push after Japan crisis

By Sylvia Westall

VIENNA | Thu Apr 14, 2011 8:58am EDT

(Reuters) - A 72-nation nuclear forum backed a United Nations campaign to strengthen atomic safety on Thursday and pledged to carry out prompt steps to address public distrust in the technology following Japan's crisis.

Japan's month-long struggle to stabilize the Fukushima nuclear power plant after it was damaged by an earthquake and tsunami has prompted a rethink about atomic power worldwide with some countries putting plans worth billions of euros on hold.

"(We) are committed to draw and act upon the lessons of the Fukushima accident," nuclear regulators said in a joint statement at the end of a two-week conference in Vienna.

Outside the venue, the environmental group Greenpeace had erected a small model nuclear power station which spewed out smoke. About 20 demonstrators dressed in yellow overalls held up anti-nuclear energy placards and handed out leaflets.

"Nuclear safety is the very lifeline of nuclear power development," the meeting's president, Li Ganjie of [China](#), said.

"Nuclear safety at the same time knows no boundaries, it is a global issue. Indeed, members of the public have anxiety around nuclear power and nuclear issues," he added.

Although it was scheduled before the March 11 earthquake, the Vienna meeting to review the 1996 Convention on Nuclear Safety (CNS) has been dominated by Japan's emergency.

PLANT DESIGN IN FOCUS

It was the first international meeting to discuss nuclear safety since the crisis. The forum said it supported plans to hold a ministerial conference on nuclear safety in June focusing on Fukushima. The meeting will be hosted by the International Atomic Energy Agency (IAEA), the U.N. atomic agency.

IAEA chief Yukiya Amano wants the meeting to help strengthen nuclear safety and draw lessons from Fukushima, the most serious atomic disaster since Chernobyl in 1986. The CNS forum said it would also hold a special meeting on [Japan](#) in August 2012 and set out more concrete steps to improve safety.

Li said the most hotly-debated topic among delegates in the past two weeks had been nuclear power plant design.

"We believe it is necessary to further enhance the capability to resist external events in terms of design and construction of the nuclear power plants and also to enhance safety standards," he told a news conference.

Communication was another topic of concern. Japan has come under pressure, even from the Japanese head of the IAEA, to provide more information about its stricken plant. Tokyo has said it had struggled to gather data and promised to do more.

"Transparency is one of the highest priorities of Japan in addressing the Fukushima Daiichi accident," Tokyo's representative Ichiro Ogasawara said.

The developments in Japan have also put the IAEA's ability to handle crises in the spotlight. The agency lacks the power to enforce safety standards it recommends, which some argue needs to change to help guard against future disasters.

Mainichi: Special meeting on Fukushima nuke plant accident to be held in 2012



Bill Borchardt from the United States Vice President of the International Atomic Energy Agency, IAEA, prior to a press conference at the end of the review meeting of the convention on nuclear safety at the International Center in Vienna, Austria, Thursday, April 14, 2011. (AP Photo/Ronald Zak)

TOKYO (Kyodo) -- The contracting parties to the Convention on Nuclear Safety, which finished their 10-day review meeting in Vienna on Thursday, decided to hold an extraordinary meeting on the Fukushima Daiichi power plant accident in August 2012.

The meeting will last one week and be aimed at strengthening nuclear safety by "reviewing and sharing lessons learned and actions taken by contracting parties in response to events of Fukushima," according to a joint statement issued at the end of the review meeting.

The statement said the 72 signatory parties "expressed their deepest condolences to the Japanese people for the losses they have suffered as a result of the devastating earthquake and tsunami" on March 11.

"Japan is not alone in its hour of need," the parties said in the statement, adding they continue to offer their support to Japan in its effort to solve the nuclear crisis at the Fukushima Daiichi complex.

The accident in Fukushima "highlights the need to consider new challenges and underlines the paramount importance of safety in the use of nuclear energy," the parties said while expressing their commitment to "act upon the lessons" of the accident.

Bill Borchardt, vice president of the review meeting and executive director for Operations at the U.S. Nuclear Regulatory Commission, said detailed information should be made available to fully evaluate the accident.

"There is still a great deal to be learned on the details of this event," although plenty of information about the accident has already been provided by the Japanese authorities, Borchardt said.

"I think it will (take) quite some time before we will have all the information available," he said.

"There is much more to be learned before we can even understand what the full range of follow-up action should be...for nuclear plants around the world."

The review meeting of the convention, which went into force in 1996, takes place every three years at the headquarters of the International Atomic Energy Agency in Vienna.

This month's meeting opened less than a month after the magnitude-9.0 earthquake and ensuing tsunami crippled the system for cooling nuclear fuel rods at the Fukushima Daiichi complex, where engineers and workers struggle to stem radioactive emissions.

The Japanese government has raised the severity level of the crisis to 7, putting it on a par with the 1986 Chernobyl disaster.

The IAEA gathering addressed the Fukushima crisis and participants voiced concern over a range of troubles, including the release of contaminated water into the nearby sea, according to officials familiar with the meeting.

Japanese representatives pledged further efforts to boost transparency in providing information about future events at the plant, they said.

The IAEA is scheduled to hold a ministerial-level meeting in June for discussion over how to enhance safety measures and countermeasures against multiple natural disasters for nuclear power stations.

From: Hall-Godfrey, Jennifer J
Sent: Friday, April 15, 2011 10:11 AM
To: Shaffer, Mark R; 'Brenner, Eliot'
Subject: AP: Countries at nuclear safety meeting pledge to learn from Japanese nuke crisis

Countries at nuclear safety meeting pledge to learn from Japanese nuke crisis

Veronika Oleksyn, The Associated Press: Thursday, April 14, 2011
VIENNA, Austria - Countries attending a nuclear safety conference pledged Thursday to act on lessons learned from the Japanese reactor crisis triggered by last month's devastating earthquake but stressed they needed more specifics to do so.

The roughly 60 countries are all party to the Convention on Nuclear Safety that came into being after the 1979 Three Mile Island and the 1985 Chornobyl nuclear accidents and commits members to submit reports on the security of their power plants. The idea is that questioning and peer pressure at gatherings every three years will keep countries on their toes. All states with operating nuclear power plants are parties to the treaty.

The countries said in a statement released at the end of a 10-day meeting at the Vienna-based International Atomic Energy Agency that they are "committed to draw and act upon the lessons of" the March 11 disaster at Japan's Dai-ichi power plant and that they will be holding a special session in August 2012 on the matter.

"The international community recognizes the significance of the Fukushima nuclear accident, which highlights the need to consider new challenges and underlines the paramount importance of safety in the use of nuclear energy," the statement said.

But a vice-president of the gathering, Bill Borchardt of the United States, said more information was needed in order to know how best to respond and proceed in the aftermath of the Fukushima accident that has raised fears over radioactive fallout and questions about the safety of nuclear power.

"There's much more to be learned before we can even understand what the full range of follow-up actions would be for both the regulators in each of the nations and for the operators of the nuclear power plants around the world," Borchardt told reporters. "Many of us are taking actions now based upon the best information we have available today but we realize that information is not complete at this time."

Details that would be important to have include specifics about the conditions inside the reactors at the Fukushima site and what caused the failure of various pieces of equipment, Borchardt said.

According to the statement, which also referenced the need for more information, Japan has committed to providing missing information "as soon as possible."

Li Ganjie of China's National Nuclear Safety Administration who presided over the meeting, said the need to boost the ability of nuclear power plants to resist natural disasters such as earthquakes attracted substantial debate during the conference, most of which was closed to the media.

"At present, natural disasters have (a) wide range of impacts upon nuclear power plants - the Fukushima accident is a typical example," Li said through a translator.

*Jennifer Hall Godfrey
Public Affairs Officer
U.S. Mission to International Organizations
Vienna, Austria*

*HallGodfreyJJ@state.gov
+43-1-31339-4726
<http://vienna.usmission.gov>*

From: Mitchell, Linda
Sent: Thursday, April 14, 2011 3:52 PM
To: Henderson, Karen; Owens, Janice; Ramsey, Jack; Fragoyannis, Nancy
Cc: Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte
Subject: RE: NEW FOIA - Inquire to IP staff

Ok. Thanks

Linda Mitchell
International Programs Officer
U.S. Nuclear Regulatory Commission
Office of International Programs
International Operations Branch
Phone: (301) 415-1200
Fax: (301)415-2395
E-Mail: Linda.Mitchell@nrc.gov

From: Henderson, Karen
Sent: Thursday, April 14, 2011 3:52 PM
To: Owens, Janice; Mitchell, Linda; Ramsey, Jack; Fragoyannis, Nancy
Cc: Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte
Subject: RE: NEW FOIA - Inquire to IP staff

I cannot imagine that anyone in NRC would have such reports. They would have been done by GE for the Japanese authorities.

From: Owens, Janice
Sent: Thursday, April 14, 2011 1:50 PM
To: Mitchell, Linda; Henderson, Karen; Ramsey, Jack; Fragoyannis, Nancy
Cc: Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte
Subject: RE: NEW FOIA - Inquire to IP staff

ECIO does not have inspection reports of GE reactors in Japan.

From: Mitchell, Linda
Sent: Thursday, April 14, 2011 1:41 PM
To: Henderson, Karen; Ramsey, Jack; Fragoyannis, Nancy
Cc: Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte; Owens, Janice
Subject: FW: NEW FOIA - Inquire to IP staff

Hello,

Would OIP have these type of records? Please confirm thanks!

Linda Mitchell

International Programs Officer
U.S. Nuclear Regulatory Commission
Office of International Programs
International Operations Branch
Phone: (301) 415-1200
Fax: (301)415-2395
E-Mail: Linda.Mitchell@nrc.gov

From: Raphael, Mary Jean
Sent: Thursday, April 14, 2011 1:35 PM
To: Mitchell, Linda
Subject: NEW FOIA - Inquire to IP staff

The new request asks for: inspection reports of GE reactors at the Japan Fukushima Dai-ichi and Fukushima Daini nuclear plants for the past 5 yrs.

NSIR has informed me that they would not have these types of records.

From: Leeds, Eric
Sent: Thursday, April 14, 2011 3:24 PM
To: Weber, Michael; Virgilio, Martin
Cc: Doane, Margaret; Mamish, Nader
Subject: Success!: Big Change: CNRA: Chair and Vice-Chair planning conference call
Attachments: image001.gif

See below

(b)(5)

(b)(5)

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]
Sent: Thursday, April 14, 2011 12:58 PM
To: Leeds, Eric; Galloway, Melanie; Evans, Michele; Miller, Charles
Cc: Grobe, Jack; Holahan, Gary; Johnson, Michael; Boger, Bruce; Ruland, William; Sheron, Brian; Uhle, Jennifer; Holian, Brian; Virgilio, Martin; Weber, Michael
Subject: RE: Big Change: CNRA: Chair and Vice-Chair planning conference call

Dear all –

Last week, there was a discussion between Lacoste and Luis Echavarri (which prompted the discussions with Eric and Margie) to move include Fukushima impacts on LTO. As I understand it, this week, Mike Weightman, Jukka Laakkonen, Bill Borchardt and Andre Lacoste had discussions with/direction to Javier at the Convention to change the Forum focus to Fukushima.

From the Chairman Jaczko last week, Margie conveyed the message that IAEA should be the lead coordinating role. The (new) final session will include discussion on integration and co-ordination internationally. Today, we met with the Energy Advisors from the NEA countries as a prep for the NEA Steering Committee meeting in 2 weeks. Luis stated that the NEA June Forum will be input into the June 20 IAEA conference.

We will be re-tooling to Forum in very fast order...more to come. You know where to find me/us.



Diane Jackson, Nuclear Safety Specialist
Nuclear Safety Division, OECD Nuclear Energy Agency (NEA)
Tel.: +33 (0)1 45 24 10 55, Diane.Jackson@oecd.org

From: Leeds, Eric [mailto:Eric.Leeds@nrc.gov]
Sent: Thursday, April 14, 2011 18:25
To: Galloway, Melanie; Evans, Michele; Miller, Charles
Cc: Grobe, Jack; Holahan, Gary; Johnson, Michael; Boger, Bruce; Ruland, William; JACKSON Diane, NEA/SURN; Sheron, Brian; Uhle, Jennifer; Holian, Brian; Virgilio, Martin; Weber, Michael
Subject: Big Change: CNRA: Chair and Vice-Chair planning conference call

Please see below. It looks like the June 8th meeting will not be about LTO, but rather Fukushima. I still plan to attend, but we may want to re-think our attendance – does the TF need to be represented? Does Michele Evans, as our participant on the NEA Task Force, need to be there? And as Heather notes, there are attendance space issues.

Brian and I will still attend, due to our involvement with the CSNI and CNRA that week. We will work and coordinate.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Astwood, Heather
Sent: Thursday, April 14, 2011 11:02 AM
To: Leeds, Eric
Subject: RE: CNRA: Chair and Vice-Chair planning conference call

Eric,

I spoke to Diane about all of this. She said that it has been decided that the LTO forum will no longer be about LTO at all. The entire agenda will be changed and the entire forum will address Fukushima. She said this had been coordinated with you and Margie and the Chairman. She said that the NEA task Force, including Michele, will be able to attend.

However, you are correct that there are space issues. Diane knew we had all registered and NEA will look at all the registrations and the available seating around the end of April and will let us know at that point if we have too many people going. She said there is definitely room for all you principles, and Michele, but that the rest of us might not make it. She will let us know.

Also, because this is no longer about LTO I will let Melanie Galloway know that she should not go.

Heather Astwood
International Team Leader
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1075

From: Mitchell, Linda
Sent: Thursday, April 14, 2011 2:00 PM
To: OIP Distribution
Subject: FW: FOIA Requests (Japan)
Attachments: JAPAN FOIA 2011.pdf; 3- foia for JAPAN 2011.pdf; FOIA 2011-0147.pdf; FOIA 2011-0184.pdf

Importance: High

Please continue to send all emails and documents regarding the Japan's FOIA request to the following email address [OIP ITServices@nrc.gov](mailto:OIP_ITServices@nrc.gov)

The FOIAs covers all e-mails, faxes, written correspondence, documents including reports, studies, test results, correspondence, memoranda, meeting notices, meeting minutes, working papers, graphs, charts, diagrams and any other form of written communications relating to the ongoing Nuclear crisis in Japan from **March 11 thru April 11, 2011.** **PLEASE PROVIDE ALL EMAILS AND DOCUMENTS BY COB APRIL 21, 2011.**

Thanks
Linda Mitchell
International Programs Officer
U.S. Nuclear Regulatory Commission
Office of International Programs
International Operations Branch
Phone: (301) 415-1200
Fax: (301)415-2395
E-Mail: Linda.Mitchell@nrc.gov

FOIAPAOIP Resource

From: Admin, Admin [foia.resource@nrc.gov]
Sent: Thursday, March 17, 2011 1:43 PM
To: RidsEdoMailCenter Resource; FOIAPANSIR Resource; FOIAPAOIP Resource; OPA Resource; FOIAPASECY Resource
Cc: Raphael, Mary Jean; FOIA Resource
Subject: Action Item/Instructions: FOIA/PA-2011-00118 EXPEDITED

You have been assigned action on the incoming FOIA request available at: **ADAMS ACCESSION # ML11076A003**

Offices Assigned Action on March 17, 2011
EDO;NSIR;OIP;OPA;SECY

This request has been granted expedited processing. It must be processed ahead of all, others except for requests already determined to warrant expedition.

No estimates needed. Begin processing.

The OIS FOIA/PA Specialist for this request is indicated in the "cc" to this e-mail.

The FOIA/PA request should be processed in accordance with the standard instructions (How to Respond to an Initial FOIA Request) at ML060590485. You are encouraged to ask for a scoping discussion with the requester when you believe it will be beneficial. You are encouraged to ask for assistance in performing adequate ADAMS searches if you are having difficulty doing a search. Your initial estimate of search and review time and the volume of records is required within four (4) working-days from the date of this transmittal e-mail. NRC Form 496, "Report of Staff Resources for Processing FOIA/PA Requests" is now available on Informs for your use.



Associated Press

Dina Cappiello
The Associated Press
1100 13th Street NW
Washington, DC 20005
202-641-9446

March 16, 2011

Donna L. Sealing
FOIA/Privacy Officer
U.S. Nuclear Regulatory Commission
Mailstop: T-5 F09
Washington, DC 20555-0001

FOIA REQUEST

Dear Ms. Sealing:

Pursuant to the federal Freedom of Information Act, 5 U.S.C. § 552, I request access to and copies of all communications between the NRC, the Department of Energy, GE Energy and Hitachi-GE Nuclear Energy pertaining to the Japanese nuclear incidents caused by the March 11 earthquake and tsunami. This includes problems at the following three facilities: Fukushima Dai-ichi, Fukushima Daini, and Onagawa.

The communications should include emails, faxes, and written correspondence between the commission's chairman, its four commissioners, their staffs, and all other NRC employees to and from the Department of Energy and to and from GE Energy, Hitachi-GE Nuclear Energy, and its designated representatives.

Please consider this an expedited request under the FOIA, as this information is urgently required to inform the public about an actual or alleged federal government activity, namely the role the U.S. government is playing in the response to the Japan nuclear crisis and whether what is unfolding there has implications for U.S. nuclear policy and reactors here. I certify that I am a full-time employee for The Associated Press, the world's largest news-gathering organization with more than 1 billion readers, listeners and viewers.

Whether an "urgency to inform" exists depends on several factors: (1) whether the information relates to a currently unfolding story; (2) whether delaying release of the information harms the public interest; and (3) whether the request concerns federal governmental activity (*see Al-Fayed v. CIA, 245 F.3d 300 (D.C. Cir. 2001)*). In addition, "the credibility of a requester" is also a relevant consideration.

Please release any information pursuant to my requests as it is received and/or reviewed by your office, rather than waiting to send me all the material I have requested. If you have questions or need to contact me, I can be reached at 202-641-9446 and dcappiello@ap.org.

As I am making this request on behalf of the AP for use in reporting the news, no fees may be assessed for searching or reviewing documents sought by this request, and no duplication fees should be charged to the AP for the first 100 pages of material (*see 5 U.S.C. § 552(a)(4)(A)(ii)(I)*). AP hereby consents to pay duplication charges up to a total not to exceed \$200. Please notify me in advance before incurring any duplication charges in excess of this amount.

1100 13th St. NW, Suite 700, Washington, DC 20005-4076
T: 202.641.9000 voice; www.ap.org

FOIA/PA REQUEST

Case No.: 2011-0118
Date Rec'd: 3.16.11
Specialist: Raphael
Related Case: _____

CZ 1582 of 2042

As you know, the Act permits you to reduce or waive the fees when the release of the information is considered as "primarily benefiting the public." I believe that this request fits that category and I therefore ask that you waive any fees.

If all or any part of this request is denied, please cite the specific exemption(s) that you think justifies your refusal to release the information and inform me of your agency's administrative appeal procedures available to me under the law.

To the extent that you affirm, in whole or in part, the denial of disclosure, we ask that you provide us with a list describing with specificity the categories of documents that have been withheld and explaining the grounds for the withholding (*see Vaughn v. Rosen, 484 F.2d 820 (D.C. Cir. 1973)*).

I would appreciate your handling this request as quickly as possible, and I look forward to hearing from you.

I look forward to your reply within 20 business days, as the statute requires.

Thank you for your assistance.

Sincerely,

Dina Cappiello

FOIA Resource

From: Cappiello, Dina [DCappiello@ap.org]
Sent: Wednesday, March 16, 2011 12:55 PM
To: FOIA Resource
Subject: AP FOIA REQUESTS
Attachments: NRCJapaneseofficials.doc; NRCinternaJapanuclear.doc; NRCDOEGEcommunications.doc

Dear FOIA officer,

Attached are three separate AP FOIA requests pertaining to the nuclear incident underway in Japan. Please email me back or call to confirm receipt.

I will also send them via regular mail, but the FOIA clock should commence upon receipt of this email.

Kind regards,

Dina Cappiello
Environment/Energy Reporter
The Associated Press
1100 13th Street NW, Suite 700
Washington, DC 20005
(202)-641-9446 (o)
(202)-403-3582 (f)
(b)(6) (c)

The information contained in this communication is intended for the use of the designated recipients named above. If the reader of this communication is not the intended recipient, you are hereby notified that you have received this communication in error, and that any review, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify The Associated Press immediately by telephone at +1-212-621-1898 and delete this e-mail. Thank you.

[IP_US_DISC]msk dccc60c6d2c3a6438f0cf467d9a4938

FOIAPAOIP Resource

From: Admin, Admin [foia.resource@nrc.gov]
Sent: Thursday, March 17, 2011 1:46 PM
To: RidsEdoMailCenter Resource; RidsNrrMailCenter Resource; FOIAPANSIR Resource; FOIAPAOIP Resource; OPA Resource; RidsResPmdaMail Resource; FOIAPASECY Resource
Cc: Raphael, Mary Jean; FOIA Resource
Subject: Action Item/Instructions: FOIA/PA-2011-00119 EXPEDITED

You have been assigned action on the incoming FOIA request available at: **ADAMS ACCESSION # ML11076A004**

Offices Assigned Action on March 17, 2011
EDO;NRR;NSIR;OIP;OPA;RES;SECY

This request has been granted expedited processing. It must be processed ahead of all, others except for requests already determined to warrant expedition.

No estimates needed. Begin processing.

The OIS FOIA/PA Specialist for this request is indicated in the "cc" to this e-mail.

The FOIA/PA request should be processed in accordance with the standard instructions (How to Respond to an Initial FOIA Request) at ML060590485. You are encouraged to ask for a scoping discussion with the requester when you believe it will be beneficial. You are encouraged to ask for assistance in performing adequate ADAMS searches if you are having difficulty doing a search. Your initial estimate of search and review time and the volume of records is required within four (4) working-days from the date of this transmittal e-mail. NRC Form 496, "Report of Staff Resources for Processing FOIA/PA Requests" is now available on Informs for your use.



FOIA/PA REQUEST

Case No.: 2011-0119
Date Rec'd: 3-16-11
Specialist: Raphael
Related Case: _____

Dina Cappiello
The Associated Press
1100 13th Street NW
Washington, DC 20005
202-641-9446

March 16, 2011

Donna L. Sealing
FOIA/Privacy Officer
U.S. Nuclear Regulatory Commission
Mailstop: T-5 F09
Washington, DC 20555-0001

FOIA REQUEST

Dear Ms. Sealing:

Pursuant to the federal Freedom of Information Act, 5 U.S.C. § 552, I request access to and copies of all internal communications within the NRC (including its chairman, four commissioners and their staff members) pertaining to the Japanese nuclear incidents caused by the March 11 earthquake and tsunami. This includes problems at the following three facilities: Fukushima Dai-ichi, Fukushima Daini, and Onagawa.

The communications should include emails, faxes, and written correspondence between the commission's chairman, its four commissioners, their staffs, the public affairs team and employees of other offices such as the Office of Nuclear Reactor Regulation, the Office of Nuclear Security and Incident Response, and the NRC's 24-hour Operations Center.

Please consider this an expedited request under the FOIA, as this information is urgently required to inform the public about an actual or alleged federal government activity, namely the role the U.S. government is playing in the response to the Japan crisis and whether what is unfolding there has implications for U.S. nuclear policy. I certify that I am a full-time employee for The Associated Press, the world's largest news-gathering organization with more than 1 billion readers, listeners and viewers.

Whether an "urgency to inform" exists depends on several factors: (1) whether the information relates to a currently unfolding story; (2) whether delaying release of the information harms the public interest; and (3) whether the request concerns federal governmental activity (*see Al-Fayed v. CIA, 245 F.3d 300 (D.C. Cir. 2001)*). In addition, "the credibility of a requester" is also a relevant consideration.

Please release any information pursuant to my requests as it is received and/or reviewed by your office, rather than waiting to send me all the material I have requested. If you have questions or need to contact me, I can be reached at 202-641-9446 and dcappiello@ap.org.

As I am making this request on behalf of the AP for use in reporting the news, no fees may be assessed for searching or reviewing documents sought by this request, and no duplication fees should be charged to the AP for the first 100 pages of material (*see 5 U.S.C. § 552(a)(4)(A)(ii)(II)*). AP hereby consents to pay duplication charges up to a total not to exceed \$200. Please notify me in advance before incurring any duplication charges in excess of this amount.

1100 13th St. NW, Suite 700, Washington, DC 20005-4076
T: 202.641.9000 voice; www.ap.org

As you know, the Act permits you to reduce or waive the fees when the release of the information is considered as "primarily benefiting the public." I believe that this request fits that category and I therefore ask that you waive any fees.

If all or any part of this request is denied, please cite the specific exemption(s) that you think justifies your refusal to release the information and inform me of your agency's administrative appeal procedures available to me under the law.

To the extent that you affirm, in whole or in part, the denial of disclosure, we ask that you provide us with a list describing with specificity the categories of documents that have been withheld and explaining the grounds for the withholding (*see Vaughn v. Rosen, 484 F.2d 820 (D.C. Cir. 1973)*).

I would appreciate your handling this request as quickly as possible, and I look forward to hearing from you.

I look forward to your reply within 20 business days, as the statute requires.

Thank you for your assistance.

Sincerely,

Dina Cappiello

FOIA Resource

From: Cappiello, Dina [DCappiello@ap.org]
Sent: Wednesday, March 16, 2011 12:55 PM
To: FOIA Resource
Subject: AP FOIA REQUESTS
Attachments: NRCJapaneseofficials.doc; NRCinternalJapannuclear.doc; NRCDOEGEcommunications.doc

Dear FOIA officer,

Attached are three separate AP FOIA requests pertaining to the nuclear incident underway in Japan. Please email me back or call to confirm receipt.

I will also send them via regular mail, but the FOIA clock should commence upon receipt of this email.

Kind regards,

Dina Cappiello
Environment/Energy Reporter
The Associated Press
1100 13th Street NW, Suite 700
Washington, DC 20005
(202)-641-9446 (o)
(202)-403-3582 (f)

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[IP_US_DISC]msk dccc60c6d2c3a6438f0cf467d9a4938

FOIAPAOIP Resource

From: Admin, Admin [foia.resource@nrc.gov]
Sent: Thursday, March 17, 2011 1:48 PM
To: RidsEdoMailCenter Resource; FOIAPANSIR Resource; FOIAPAOIP Resource; OPA Resource; FOIAPASECY Resource
Cc: Raphael, Mary Jean; FOIA Resource
Subject: Action Item/Instructions: FOIA/PA-2011-00120 EXPEDITED

You have been assigned action on the incoming FOIA request available at: **ADAMS ACCESSION # ML11076A005**

Offices Assigned Action on March 17, 2011 EDO;NSIR;OIP;OPA;SECY

This request has been granted expedited processing. It must be processed ahead of all, others except for requests already determined to warrant expedition.

No estimates needed. Begin processing.

The OIS FOIA/PA Specialist for this request is indicated in the "cc" to this e-mail.

The FOIA/PA request should be processed in accordance with the standard instructions (How to Respond to an Initial FOIA Request) at ML060590485. You are encouraged to ask for a scoping discussion with the requester when you believe it will be beneficial. You are encouraged to ask for assistance in performing adequate ADAMS searches if you are having difficulty doing a search. Your initial estimate of search and review time and the volume of records is required within four (4) working-days from the date of this transmittal e-mail. NRC Form 496, "Report of Staff Resources for Processing FOIA/PA Requests" is now available on Informs for your use.



FOI/PA REQUEST

Case No.: 2011-0120
Date Rec'd: 3-16-11
Specialist: Raphael
Related Case: _____

Dina Cappiello
The Associated Press
1100 13th Street NW
Washington, DC 20005
202-641-9446

March 16, 2011

Donna L. Sealing
FOIA/Privacy Officer
U.S. Nuclear Regulatory Commission
Mailstop: T-5 F09
Washington, DC 20555-0001

FOIA REQUEST

Dear Ms. Sealing:

Pursuant to the federal Freedom of Information Act, 5 U.S.C. § 552, I request access to and copies of all communications between the NRC and government counterparts in Japan pertaining to the Japanese nuclear incidents caused by the March 11 earthquake and tsunami. This includes problems at the following three facilities: Fukushima Dai-ichi, Fukushima Daini, and Onagawa.

The communications should include emails, faxes, and written correspondence between the commission's chairman, its four commissioners, their staffs, and all other NRC employees - particularly those deployed to Japan and working at NRC's 24-Hour Operations Center - to and from Japanese government officials.

Please consider this an expedited request under the FOIA, as this information is urgently required to inform the public about an actual or alleged federal government activity, namely the role the U.S. government is playing in the response to the Japan nuclear crisis and whether what is unfolding there has implications for U.S. nuclear policy and reactors here. I certify that I am a full-time employee for The Associated Press, the world's largest news-gathering organization with more than 1 billion readers, listeners and viewers.

Whether an "urgency to inform" exists depends on several factors: (1) whether the information relates to a currently unfolding story; (2) whether delaying release of the information harms the public interest; and (3) whether the request concerns federal governmental activity (*see Al-Fayed v. CIA, 245 F.3d 300 (D.C. Cir. 2001)*). In addition, "the credibility of a requester" is also a relevant consideration.

Please release any information pursuant to my requests as it is received and/or reviewed by your office, rather than waiting to send me all the material I have requested. If you have questions or need to contact me, I can be reached at 202-641-9446 and dcappiello@ap.org.

As I am making this request on behalf of the AP for use in reporting the news, no fees may be assessed for searching or reviewing documents sought by this request, and no duplication fees should be charged to the AP for the first 100 pages of material (*see 5 U.S.C. § 552(a)(4)(A)(ii)(II)*). AP hereby consents to pay duplication charges up to a total not to exceed \$200. Please notify me in advance before incurring any duplication charges in excess of this amount.

1100 13th St. NW, Suite 700, Washington, DC 20005-4076
T: 202.641.9000 voice; www.ap.org

As you know, the Act permits you to reduce or waive the fees when the release of the information is considered as "primarily benefiting the public." I believe that this request fits that category and I therefore ask that you waive any fees.

If all or any part of this request is denied, please cite the specific exemption(s) that you think justifies your refusal to release the information and inform me of your agency's administrative appeal procedures available to me under the law.

To the extent that you affirm, in whole or in part, the denial of disclosure, we ask that you provide us with a list describing with specificity the categories of documents that have been withheld and explaining the grounds for the withholding (*see Vaughn v. Rosen, 484 F.2d 820 (D.C. Cir. 1973)*).

I would appreciate your handling this request as quickly as possible, and I look forward to hearing from you.

I look forward to your reply within 20 business days, as the statute requires.

Thank you for your assistance.

Sincerely,

Dina Cappiello

FOIA Resource

From: Cappiello, Dina [DCappiello@ap.org]
Sent: Wednesday, March 16, 2011 12:55 PM
To: FOIA Resource
Subject: AP FOIA REQUESTS
Attachments: NRCJapaneseofficials.doc; NRCinternalJapannuclear.doc; NRCDOEGEcommunications.doc

Dear FOIA officer,

Attached are three separate AP FOIA requests pertaining to the nuclear incident underway in Japan. Please email me back or call to confirm receipt.

I will also send them via regular mail, but the FOIA clock should commence upon receipt of this email.

Kind regards,

Dina Cappiello
Environment/Energy Reporter
The Associated Press
1100 13th Street NW, Suite 700
Washington, DC 20005
(202)-641-9446 (o)
(202)-403-3582 (f)

(b)(6)

(c)

The information contained in this communication is intended for the use of the designated recipients named above. If the reader of this communication is not the intended recipient, you are hereby notified that you have received this communication in error, and that any review, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify The Associated Press immediately by telephone at +1-212-621-1898 and delete this e-mail. Thank you.

[IP_US_DISC]msk dccc60c6d2c3a6438f0cf467d9a4938

Mitchell, Linda

From: Blaney, Stephanie
Sent: Thursday, April 14, 2011 10:07 AM
To: Mitchell, Linda
Cc: FOIAPAOIP Resource
Subject: FW: Action Item/Instructions: FOIA/PA-2011-00147 FEE WAIVER GRANTED
Attachments: 2011-0147.pdf

Here is FOIA/PA-2011-0147.

Thank you,

Stephanie Blaney
FOIA/PA Specialist
FOIA/Privacy Section, Information Services Branch
Information & Records Services Division
Office of Information Services
U.S. Nuclear Regulatory Commission
301-415-6975 (Phone)
301-415-5130 (Fax)

From: Admin, Admin [<mailto:foia.resource@nrc.gov>]
Sent: Wednesday, March 30, 2011 8:37 AM
To: RidsEdoMailCenter Resource; RidsNmssOd Resource; NRO_FOIA Resource; RidsNrrMailCenter Resource; FOIAPANSIR Resource; RidsOcaMailCenter Resource; FOIAPAOIP Resource; Shannon, Valerie; RidsResPmdaMail Resource; R1FOIAPA RESOURCE; FOIAPAR2 Resource; RIIIFOIAPA Resource; FOIAPAR4 Resource; FOIAPASECY Resource
Cc: FOIA Resource; Blaney, Stephanie
Subject: Action Item/Instructions: FOIA/PA-2011-00147 FEE WAIVER GRANTED

You have been assigned action on the incoming FOIA request available at: **ADAMS ACCESSION # ML11087A023**

Offices Assigned Action on March 30, 2011

EDO;NMSS;NRO;NRR;NSIR;OCA;OIP;OPA;RES;RI;RII;RIII;RIV;SECY

(This request covers all records relating to the ongoing Nuclear crisis in Japan from March 11th thru March 24th. You do not need to produce records that are covered by previous FOIA requests.

This request has been granted a fee waiver. Therefore, NO estimates are required.

For those offices who have been assigned earlier requests that have been granted expedited processing (2011-0118, 2011-0119, 2011-0120 and 2011-0135), you are to process those requests before others)

The OIS FOIA/PA Specialist for this request is indicated in the "cc" to this e-mail.

The FOIA/PA request should be processed in accordance with the standard instructions (How to Respond to an Initial FOIA Request) at ML060590485. You are encouraged to ask for a scoping discussion with the requester when you believe it will be beneficial. You are encouraged to ask for assistance in performing adequate ADAMS searches if you are having difficulty doing a search.

Since the requester has been granted a fee waiver, your initial estimates are not required.

NRC Form 496, "Report of Staff Resources for Processing FOIA/PA Requests" is now available on Informs for your use.

GREENPEACE

702 H Street, NW, Suite 300, Washington, DC 20001

Tel: 202-462-1177 • Fax: 202-462-4507

www.greenpeace.org

March 24, 2011

FOIA / Privacy Act Officer
U.S. Nuclear Regulatory Commission
Mail Stop T-6 D8
Washington, DC 20555-0001

FOIA/PA REQUEST

Case No.: 2011-0147
Date Rec'd: 3-24-11
Specialist: Blaney
Related Case: _____

FREEDOM OF INFORMATION ACT REQUEST

Dear FOIA Officer:

Pursuant to the Freedom of Information Act, 5 U.S.C. 522, as amended and 10 C.F.R. 9.8 of the Commission's regulations Greenpeace requests that the Nuclear Regulatory Commission provide us with any and all documentation regarding the on going nuclear crisis in Japan, including but not limited to any and all information on the status of the damage to reactors & spent fuel pools the Fukushima Daiichi nuclear plant and the resulting release of radiation. The NRC was right to recommend evacuation of U.S. citizens out to 50 miles. And Greenpeace would like to better understand the NRC reasoning and perspective on this ongoing crisis and the spread of radiation from the crippled nuclear reactors and spent fuel pools.

Please consider "documents" to include reports, studies, test results, correspondence, memoranda, meeting notes, meeting minutes, working papers, graphs, charts, diagrams, notes from drop-in visits and summaries of conversations and interviews, computer records, e-mail and any other form of written communications including internal NRC memoranda.

Pursuant to and in compliance with 10 C.F.R. 9.41 of the Commission's regulations governing requests for fee waivers, Greenpeace provides the following information.

Greenpeace seeks the requested information solely to contribute to and help shape the public debate concerning NRC's role in the regulation of the nuclear industry. The information provided by the NRC will be analyzed and extracted for use in an analysis of the NRC's regulation of the nuclear industry in light of the crisis in Japan to ensure that any lessons learned from this tragedy are quickly implemented at U.S. nuclear plants.

Greenpeace is a nationally known non-profit public interest organization founded in 1971. We will use these documents in preparation of our analysis of the NRC's regulation of U.S. nuclear power plants in response to the Japanese meltdowns, fuel damage & spent fuel pool drainage & damage. As Greenpeace's nuclear policy analyst I have over two decades of experience deciphering NRC documents and making the information contained in them more understandable to the public.

The requested information and Greenpeace's analysis will greatly contribute to the public's understanding of the Commission's role in regulating the nuclear industry.

We plan to broadly disseminate the information contained in our analysis to the press and the general public. For several years now our publications, comments and press releases

have been made available free of charge on our web site. The requested information will significantly increase the public understanding of the issue and the NRC's role in regulating the nuclear industry.

Our past publications have attracted attention in the local, national and trade media. Copies of the reports have been distributed to members of the public, the nuclear industry, citizen groups, federal & state governments and members of Congress.

Greenpeace has no commercial or private interest in the agency records sought.

Since "disclosure of the information is in the public interest because it is likely to contribute significantly to the public understanding of the operation or activities of the government and is not primarily in the commercial interest of the requester" (5 U.S.C. 552 (a)(4)(A) (iii)), we request a complete waiver of any processing or duplicating costs you might incur in providing these records to us. If you rule otherwise, please notify us before filling the request.

If all or any parts of this request are denied, please cite the specific exemptions on which you rely in refusing to release the documents.

Further, since the Freedom of Information Act provides that the remainder of a file must be released if only portions are exempt from disclosure, we request that we be provided with all non-exempt portions that are reasonably segregable. Of course, we reserve our right to appeal the withholding or deletion of any information.

Greenpeace is requesting that the NRC expedite this request. The disparity in evacuations recommended by the U.S. government as compared with the Japanese government poses an imminent threat to an individual's physical safety. Under the Freedom of Information Act, the NRC may place a request at the front of the queue if:

- (1) Failure to obtain the requested records within an expedited time frame could reasonably be expected to pose an imminent threat to an individual's life or physical safety, or
- (2) You are "primarily engaged in disseminating information" and there is an urgent need to "inform the public concerning actual or alleged Federal Government activity."

If you have any questions about this request, please contact me at 202-319-2487.
Thank you for your attention to this expedited request.

Sincerely,

Jim Riccio
Greenpeace
702 H Street NW, Suite 300
Washington, DC 20001

FOIA Resource

From: Jim Riccio [jim.riccio@greenpeace.org]
Sent: Thursday, March 24, 2011 1:54 PM
To: FOIA Resource
Subject: Expedited Fukushima FOIA Request
Attachments: Fukushima Expedited NRC FOIA.pdf

Dear FOIA branch

Attached please find our FOIA request for an expeditious release of the documents requested.

I noticed your disclaimer on the NRC FOIA web page.

This is an expedited request due to the fact that the NRC recommended evacuation within a 50 mile radius of the Fukushima Daiichi nuclear plant and that failure to obtain the requested records within an expedited time frame could reasonably be expected to pose an imminent threat to an individual's life or physical safety.

Should you have any questions concerning this request please feel free to contact me @ 202-319-2487

Sincerely,

Jim Riccio
Greenpeace

Mitchell, Linda

From: Blaney, Stephanie
Sent: Thursday, April 14, 2011 10:06 AM
To: Mitchell, Linda
Cc: FOIAPAOIP Resource
Subject: FW: Action Item/Instructions: FOIA/PA-2011-00184 EXPEDITED
Attachments: 2011-0184.pdf

Linda,

Attached is FOIA/PA-2011-0184. FOIA/PA-2011-0147 will be following this email.

Thank you,

Stephanie Blaney
FOIA/PA Specialist
FOIA/Privacy Section, Information Services Branch
Information & Records Services Division
Office of Information Services
U.S. Nuclear Regulatory Commission
301-415-6975 (Phone)
301-415-5130 (Fax)

From: Admin, Admin [<mailto:foia.resource@nrc.gov>]
Sent: Tuesday, April 12, 2011 11:56 AM
To: RidsEdoMailCenter Resource; RidsNmssOd Resource; NRO_FOIA Resource; RidsNrrMailCenter Resource; FOIAPANSIR Resource; RidsOcaMailCenter Resource; FOIAPAOIP Resource; Shannon, Valerie; RidsResPmdaMail Resource; R1FOIAPA RESOURCE; FOIAPAR2 Resource; RIIIFOIAPA Resource; FOIAPAR4 Resource; FOIAPASECY Resource
Cc: FOIA Resource; Blaney, Stephanie
Subject: Action Item/Instructions: FOIA/PA-2011-00184 EXPEDITED

You have been assigned action on the incoming FOIA request available at: **ADAMS ACCESSION # ML11102A017**

Offices Assigned Action on April 12, 2011

EDO;NMSS;NRO;NRR;NSIR;OCA;OIP;OPA;RES;RI;RII;RIII;RIV;SECY

(Duplicate of FOIA/PA-2011-0147 except for the dates. The dates for this FOIA request are 3/10/11-4/11/11).

Please begin processing since this is a media requester. No fee estimate required.

This request has been granted expedited processing. It must be processed ahead of all, others except for requests already determined to warrant expedition.

The OIS FOIA/PA Specialist for this request is indicated in the "cc" to this e-mail.

The FOIA/PA request should be processed in accordance with the standard instructions (How to Respond to an Initial FOIA Request) at ML060590485. You are encouraged to ask for a scoping discussion with the requester when you believe it will be beneficial. You are encouraged to ask for assistance in performing adequate ADAMS searches if you are having difficulty doing a search. Your initial estimate of search and review time and the volume of records is required within four (4) working-days from the date of this transmittal e-mail. NRC Form 496, "Report of Staff Resources for Processing FOIA/PA Requests" is now available on Informs for your use.

FOIA Resource

From: uid no body [nobody@www.nrc.gov]
Sent: Monday, April 11, 2011 5:39 PM
To: FOIA Resource
Subject: WWW Form Submission

FOI/PA REQUEST

Case No.: 2011-0184
Date Rec'd: 4-11-11
Specialist: Blaney
Related Case: _____

Below is the result of your feedback form. It was submitted by
() on Monday, April 11, 2011 at 17:38:49

FirstName: Takao

LastName: Ikeuchi

Company/Affiliation: Kyodo News

Address1: 529 14th Street NW Suite 400 National Press Bldg.

Address2:

City: Washington

State: DC

Zip: 20045

Country: United_States

Country-Other:

Email: ikeuchi.takao@kyodonews.jp

Phone: 2023475767

Desc: I request copies of any and all documents regarding nuclear crisis in Japan after March 10th. Documents include e-mails, faxes written correspondences, meeting minutes, memos, studies, analyses.

FeeCategory: NewsMedia

MediaType: Kyodo News

MediaType_TVRadio: on

FeeCategory_Description: News agency (wire)

Expedite_ImminentThreat: on

Expedite_ImminentThreatText: Because this nuclear crisis is ongoing public concern, and information is urgently required to inform, I request that you consider this an expedited request. I certify that I am a full time employee for Kyodo News, leading news wire in Japan. Our news is carried by more than 500 outlets world wide.

Expedite_UrgencyToInformText:

Waiver_Purpose:

Waiver_ExtentToExtractAnalyze:

Waiver_SpecificActivityQuals:

Waiver_ImpactPublicUnderstanding:

Waiver_NatureOfPublic:

Waiver_MeansOfDissemination:

Waiver_FreeToPublicOrFee:

Waiver_PrivateCommericalInterest:

FOIAPAOIP Resource

From: Raphael, Mary Jean
Sent: Monday, March 21, 2011 3:12 PM
To: RidsEdoMailCenter Resource; FOIAPANSIR Resource; RidsNrrMailCenter Resource; Shannon, Valerie; FOIAPAOIP Resource; RidsResPmdaMail Resource; Champ, Billie
Subject: FOIA-2011-0118, 119, 120 (JAPAN)

Good afternoon.

I wanted to inform you of the following with regard to the FOIA requests from the Associated Press on Japan:

1. A reminder that these requests cover records from March 11th thru March 16th only (the date the NRC received the FOIA requests).
2. FYI, the requester is not willing to narrow the scope of the requests.
3. NRR will be providing all the OPE daily event emails from March 11-16, 2011. You do not need to provide these emails.
4. You do not need to provide e-mails and other records relating to who at the NRC is available to travel to Japan and other administrative travel documents.
5. Please let me know ASAP if other offices should have been assigned FOIA's 2011-00118, 119 and 120. The assignments were made to EDO, NSIR, IP, PA and SECY for 2011-0118 and 120. Assignments were made to EDO, NSIR, NRR, IP, PA, RES and SECY for 2011-0119.

Thanks
Mary Jean

From: Doane, Margaret
Sent: Thursday, April 14, 2011 11:06 AM
To: Dyer, Jim; Mamish, Nader
Subject: RE: 1000 Conference call

I wasn't. thanks.
Margie

-----Original Message-----

From: Dyer, Jim
Sent: Thursday, April 14, 2011 10:42 AM
To: Doane, Margaret; Mamish, Nader
Subject: FW: 1000 Conference call

FYI. I didn't see you on distribution for this e-mail. Were you aware?

-----Original Message-----

From: Brown, Milton
Sent: Tuesday, April 12, 2011 11:12 AM
To: Dyer, Jim
Subject: FW: 1000 Conference call

FYI. Milton

-----Original Message-----

From: Matheson, Mary
Sent: Tuesday, April 12, 2011 11:00 AM
To: Kaplan, Michele; Mitchell, Reggie; Brown, Milton
Subject: FW: 1000 Conference call

Reggie,

I had a conference call with USAID today in the e-mail below is a summary of the call. I will continue to provide updates as elements are determined.

Mary

-----Original Message-----

From: Matheson, Mary
Sent: Tuesday, April 12, 2011 10:58 AM
To: Kozal, Jason; 'RMTPACTSU_AC@ofda.gov'; 'RMTPACTSU_RM@ofda.gov'
Subject: RE: 1000 Conference call

Thank you very much for the call this morning. Here is a summary of how I understood the transition will go.

Travelers (6) that are currently scheduled to travel starting on or around April 12 are:

Steve Reynolds (1)
Steve Garchow (2)
Carl Moore (3)
Jeff Mittman (4)
Heather Gepford (5)
Tony Huffert (6)

Newly identified travelers (3) leaving the later this week are:

Lupold (7)
Norwood (8)
Meighan (9)

Traveler Chuck Casto (10) has been in Japan for the duration

All of these travelers are scheduled to return starting May 3 through May 5.

The USAID humanitarian effort will end April 30, 2011.

NRC funding will begin May 1, 2011.

An Inter-Agency agreement will be established with USAID and NRC. The agreement establishes that NRC will cover the expenses for the (10) travelers identified above from May 1, 2011 until their return.

Expenses for the travelers include - Lodging the night of May 1 until the conclusion of trip, Per diem starting May 1 until the conclusion of the trip, Misc expenses from May 1, until the conclusion of the trip, return airfare for all 10 travelers listed above.

Additional expenses to be included in the IA are ICASS - Embassy Support for the month of May and June. Additional months will need an amendment to the IA.

Possible additions to the IA could be Interpreter services at approximately \$20K per month.

TAKE AWAYS:

NRC to provide a summary of the conference call for all participants to review. - This e-mail is the summary
NRC to determine if they can procure interpreter services separately.

NRC to determine if Embassy support is necessary for future traveler's hotel bookings in Japan.

USAID to provide draft IA.

USAID to provide information on Visa access at Japan airports.

USAID to provide information on interpreter service currently used

Thanks again for the call and clarification. Please let me know if I missed any actions.

Mary Matheson
301-415-8748

-----Original Message-----

From: Kozal, Jason

Sent: Tuesday, April 12, 2011 8:39 AM

To: Matheson, Mary; 'RMTPACTSU_AC@ofda.gov'; 'RMTPACTSU_RM@ofda.gov'

Subject: 1000 Conference call

Please call (b)(6)

Pin code (b)(6)

Sent from an NRC BlackBerry
Jason W Kozal

(b)(6)

From: Henderson, Karen
Sent: Thursday, April 14, 2011 9:55 AM
To: Doane, Margaret; Mamish, Nader
Subject: FW: Revised INRA agenda Stockholm 16-18 May
Attachments: image001.gif

*My heart so goes out to the Japanese - and they are so restrained and civilized in the face of the
nattering nabobs around them.* ([redacted] (b)(6))

From: Jende, Erik [mailto:Erik.Jende@ssm.se]
Sent: Thursday, April 14, 2011 8:44 AM
To: bannai-toshihiro@meti.go.jp; 'Michael.Binder@cncs-ccsn.gc.ca'; 'andre-claude.lacoste@asn.fr';
'gerald.hennenhoefer@bmu.bund.de'; 'haruki.madarame@cao.go.jp'; 'baekmin@mest.go.kr'; 'cmt@csn.es';
Mike.Weightman@hse.gsi.gov.uk; 'gregory.jaczko@nrc.gov'; Eksborg, Ann-Louise; ichii-naoto@meti.go.jp; nakamura-
koichiro1@meti.go.jp
Cc: 'noda-tomoki@meti.go.jp'; 'Guillaume.GILLET@asn.fr'; 'csjang@mest.go.kr'; 'Margaret.Doane@nrc.gov';
'Martina.Palm@bmu.bund.de'; 'Colin.Moses@cncs-ccsn.gc.ca'; 'Karen.Henderson@nrc.gov'; 'Ian.Wilson@hse.gsi.gov.uk';
'arc@csn.es'; koyama-masaomi@meti.go.jp; kamagata-shoko@meti.go.jp
Subject: SV: Revised INRA agenda Stockholm 16-18 May

Dear Toshihiro,

Thank you very much for your fast response and the availability of Japan for the INRA meeting. This is a try
to answer your two comments:

[redacted] (b)(4)

I am sorry if we expressed ourselves unclearly.

Best regards,

Erik

Erik Jende
Senior International Adviser
Department of International Affairs
SWEDISH RADIATION SAFETY AUTHORITY
Telephone: +46 8 698 86 96
E-mail: erik.jende@ssm.se
Fax: +46 8 799 40 10
Postal address: SE-171 16 Stockholm
Visitors address: Solna strandväg 96

Från: Toshihiro Bannai [bannai-toshihiro@meti.go.jp]

Skickat: den 14 april 2011 09:37

Till: Jende, Erik; 'Michael.Binder@cncs-ccsn.gc.ca'; 'andre-claude.lacoste@asn.fr'; 'gerald.hennenhofer@bmu.bund.de'; 'haruki.madarame@cao.go.jp'; 'baekmin@mest.go.kr'; 'cmt@csn.es'; Mike.Weightman@hse.gsi.gov.uk; 'gregory.jaczko@nrc.gov'; Eksborg, Ann-Louise; ichii-naoto@meti.go.jp; nakamura-koichiro1@meti.go.jp

Kopia: 'noda-tomoki@meti.go.jp'; 'Guillaume.GILLET@asn.fr'; 'csjang@mest.go.kr'; 'Margaret.Doane@nrc.gov'; 'Martina.Palm@bmu.bund.de'; 'Colin.Moses@cncs-ccsn.gc.ca'; 'Karen.Henderson@nrc.gov'; 'Ian.Wilson@hse.gsi.gov.uk'; 'arc@csn.es'; koyama-masaomi@meti.go.jp; kamagata-shoko@meti.go.jp

Ämne: RE: Revised INRA agenda Stockholm 16-18 May

Dear Erik,

Thank you very much for kindly organizing the meeting and sorry for our late reply on our availability to make a presentation on the 1F accident. Japan will make a presentation on the 1F accident on the first day according to the draft agenda you sent.

I have two comments on the draft agenda:

(b)(4)

Best regards,
Toshihiro Bannai

Toshihiro Bannai
Director, International Affairs Office
Nuclear and Industrial Safety Agency (NISA)
Ministry of Economy, Trade and Industry (METI)
1-3-1 Kasumigaseki, Chiyoda-ku, Tokyo
Japan

From: Jende, Erik [mailto:Erik.Jende@ssm.se]

Sent: Wednesday, April 13, 2011 11:34 PM

To: 'Michael.Binder@cncs-ccsn.gc.ca'; 'andre-claude.lacoste@asn.fr'; 'gerald.hennenhofer@bmu.bund.de'; 'haruki.madarame@cao.go.jp'; 'baekmin@mest.go.kr'; 'cmt@csn.es'; Mike.Weightman@hse.gsi.gov.uk; 'gregory.jaczko@nrc.gov'; Eksborg, Ann-Louise; ichii-naoto@meti.go.jp; nakamura-koichiro1@meti.go.jp

Cc: 'noda-tomoki@meti.go.jp'; 'bannai-toshihiro@meti.go.jp'; 'Guillaume.GILLET@asn.fr'; 'csjang@mest.go.kr'; 'Margaret.Doane@nrc.gov'; 'Martina.Palm@bmu.bund.de'; 'Colin.Moses@cncs-ccsn.gc.ca'; 'Karen.Henderson@nrc.gov'; 'Ian.Wilson@hse.gsi.gov.uk'; 'arc@csn.es'

Subject: Revised INRA agenda Stockholm 16-18 May

Dear INRA Members and Mules,

I enclose our revised agenda proposal for the 28th INRA meeting in Stockholm 16-18 May. As you can see the whole meeting will be devoted to implications of the Fukushima events. Instead of the normal Members Reports we ask the INRA members to present an overview of the national actions and conclusions so far as a result of the Fukushima events. For the morning 18 May we propose four discussion topics directly related to these events. Please come back to me ASAP if you have any suggestions regarding the revised agenda.

I also ask you to reserve hotel rooms as soon as possible. As earlier announced, the meeting will be held at the Sheraton Stockholm Hotel which is located in the city centre (Tegelbacken 6) close to the Central Station and the Arlanda Express terminal. For reservations please contact the hotel directly by using the following link:

<http://www.starwoodmeeting.com/Book/stralsakerhets>

Please also inform Ms. Helene Feldt (helene.feldt@ssm.se) about your participation, also in the evening programs and if you plan to bring any company to the evening programs. Helene is also available to answer questions and assist you in case of any practical problems.

We guarantee that you will have the same room rate for three nights even if you may need to change room for the third night due to a misunderstanding in our early communication with the hotel. We recommend using the Arlanda Express train between the Arlanda Airport and Stockholm City. From the city train terminal there is walking distance to Sheraton Hotel. Make sure to buy the train ticket in the arrival hall at Arlanda or in the ticket machines on the platform. Buying onboard the train is more expensive.

Ann-Louise and I are looking forward to meeting you all in Stockholm 16-18 May.

Best regards,

Erik



Erik Jende
Strålsäkerhetsmyndigheten
Swedish Radiation Safety Authority

Senior Adviser

GD-staben
DG Staff

SE-171 16 Stockholm
Solna strandväg 96

Tel: +46 8 799 41 89
Fax: +46 8 799 40 10 E-mail: erik.jende@ssm.se
www.stralsakerhetsmyndigheten.se

28th INRA MEETING 16-18 May, 2011

Sheraton Stockholm Hotel

Tegelbacken 6, Stockholm

Rev Agenda

(b)(4)

(b)(4)

From: Borchardt, Bill
Sent: Thursday, April 14, 2011 5:23 AM
To: Doane, Margaret
Subject: Re: INFO ON REGULATORS RESPONSE TO FUKUSHIMA AND MDEP

Margie,
Today's Mtg focused on the June 8 one day meeting in Paris. Agreement was reached that the meeting will focus on Fukushima: Insights and Approaches. (And not long term ops as originally planned). NEA will propose an agenda but basic approach is 4 countries present on Insights followed by a panel; 4 countries present on Approaches to follow-up activities followed by a panel; and finally a panel to discuss coordination of activities. Everyone is in agreement that this meeting will be a good input to the IAEA ministerial mtg. Attendees in Paris include regulators, NEA, IAEA, and industry.
Bill Borchardt
Via blackberry

From: Doane, Margaret
To: Borchardt, Bill
Sent: Wed Apr 13 15:40:18 2011
Subject: FW: INFO ON REGULATORS RESPONSE TO FUKUSHIMA AND MDEP

Hi Bill, I know you have a ton on your plate. Hope the meeting went a little smoother in the p.m.

(b)(5)

(b)(5)

I can forward the staff e-mails if you'd like to see them.

Margie

From: Lawrence.BURKHART@oecd.org [mailto:Lawrence.BURKHART@oecd.org]
Sent: Wednesday, April 13, 2011 4:33 AM
To: petteri.tiippana@stuk.fi; gclapiss@nnr.co.za; k210kig@kins.re.kr; Dave.Watson@hse.gsi.gov.uk; slee@kins.re.kr; Douglass.Miller@cnsccsn.gc.ca; abe-kiyoharu@jnes.go.jp; Lawrence.Burkhart@oecd.org; thomas.houdre@asn.fr; Rosales-Cooper, Cindy; yuichi.onoda@cao.go.jp; Holahan, Gary; Philippe.Gress@oecd.org; javier.reig@oecd.org; ohmura-tetsuo@meti.go.jp; jiangwei@mep.gov.cn; j.lyons@iaea.org; David.Newland@cnsccsn.gc.ca; i.sokolova@gosnadzor.ru; len.creswell@hse.gsi.gov.uk; M.Lipar@iaea.org; M.El-Shanawany@iaea.org; alejandro.huerta@oecd.org; Williams, Donna; bvs@gan.ru; sebastien.crombez@asn.fr
Cc: adeline.clos@asn.fr; Geoffrey.Vaughan@hse.gsi.gov.uk; EuropaM@nnr.co.za; diane.jackson@oecd.org; yindejian@tsinghua.org.cn; byung-soon.kim@oecd.org; oshima-toshiyuki@meti.go.jp; Doane, Margaret; PBester@nnr.co.za; fujiensc@163.com; bogdan@secNRS.RU; Rosales-Cooper, Cindy; k076kbs@kins.re.kr; huliguang@tom.com; bannai-toshihiro@meti.go.jp; v.kolobov@gan.ru; olivier.gupta@asn.fr; Marcel.deVos@cnsccsn.gc.ca; akane.kawasue@cao.go.jp; akihide.hidaka@cao.go.jp; SRokita@nnr.co.za; sebastien.crombez@asn.fr
Subject: INFO ON REGULATORS RESPONSE TO FUKUSHIMA AND MDEP

Dear STC members,

Bonjour! The MDEP technical secretariat is coordinating with the CNRA and CSNI technical secretariat regarding actions being taken by each regulator in response to the events at Fukushima. The following website should contain the most recent information that the NEA has regarding regulatory announcements and actions being taken by various regulators

(this includes more than the regulators of MDEP). Please note that this is NOT a part of the MDEP Library and, therefore, your MDEP library password will not allow you to access it.

We are currently in the process of getting passwords for all of you so that you may access this NEA website – you should receive your sign on ID and passwords within the next 24hrs.

<http://www.oecd-nea.org/download/nsd-fukushima/>

If you have information that you would like added to this page, please send to me and Philippe.

Access has been requested for STC members, STC support members, and the chairs of each MDEP working group.

Best Regards and remember that you should receive your passwords in the very near future.

Larry Burkhart
Project Officer - Multinational Design Evaluation Programme
OECD Nuclear Energy Agency

From: Doane, Margaret
Sent: Wednesday, April 13, 2011 5:40 PM
To: Schwartzman, Jennifer
Cc: Schwartzman, Jennifer; Borchardt, Bill
Subject: FW: Draft writeup of Amano meeting summary
Attachments: Feedback from Amano Meeting with Borchardt and others.docx

Thanks Jen. I'll give to Chairman tomorrow and I've copied Mark S. for UNVIEs info.
Margie

From: Schwartzman, Jennifer
Sent: Wednesday, April 13, 2011 4:32 PM
To: Doane, Margaret
Subject: FW: Draft writeup of Amano meeting summary

Final version with Bill's comments incorporated. I get a cookie for Onagawa.

Want a hard copy?

From: Borchardt, Bill
Sent: Wednesday, April 13, 2011 4:04 PM
To: Schwartzman, Jennifer
Cc: Rodriguez, Veronica; Doane, Margaret
Subject: Re: Draft writeup of Amano meeting summary

(b)(5)

Bill Borchardt
Via blackberry

From: Schwartzman, Jennifer
To: Borchardt, Bill
Cc: Rodriguez, Veronica; Doane, Margaret
Sent: Wed Apr 13 15:39:00 2011
Subject: Draft writeup of Amano meeting summary

Bill,

Margie put this document together based on notes she took during your phone call today. She'd like to be able to provide this at tomorrow morning's 8:30 Chairman senior staff meeting. Can you please take a look and provide any comments so we can update it prior to tomorrow morning?

Thanks!
Jen

Jennifer Schwartzman Holzman
Office of International Programs

U.S. Nuclear Regulatory Commission
+1-301-415-2317
jennifer.schwartzman@nrc.gov

NOTE: Please note new email address above. My old email address, jks1@nrc.gov, will no longer work on this system. Please update your contact lists accordingly.

Feedback from B. Borchardt's April 13 Meeting with DG Amano

(b)(5)

From: Leeds, Eric
Sent: Wednesday, April 13, 2011 5:01 PM
To: Tamihei Nakamura
Cc: Doane, Margaret; Cullingford, Michael
Subject: Thank you!

Director Nakamura-san,

On behalf of the U.S. Nuclear Regulatory Commission, I want to thank you and your staff and colleagues for providing the presentation on the Fukushima Event. We found the time spent with you extremely worthwhile and illuminating.

We are still following the event very closely and 12 of our staff members are in Tokyo providing assistance to the US Ambassador to Japan. Our hope is that the Fukushima facility reaches a stable condition soon and that the people displaced by the event can return to their homes and resume their lives in safety.

Thanks again for your visit!

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Henderson, Karen
Sent: Wednesday, April 13, 2011 4:05 PM
To: Virgilio, Martin
Cc: Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Dembek, Stephen; Owens, Janice; Fragoyannis, Nancy; Ramsey, Jack; Shaffer, Mark R; Hirsch, Pat
Subject: FOIA guidance for staff re Japan event
Attachments: Freedom of Information Act Guidance concerning Fukushima communications (final 4-6-2011).docx

Marty,

OIP has worked with OGC to develop guidance to staff concerning the various Freedom of Information Act requests that NRC has received as a result of the March 11 earthquake/tsunami/nuclear event in Japan. Margie has asked me to forward it to you for distribution as appropriate.

Cheers,

Karen

*Dr. Karen Henderson
Senior Level Foreign Policy Advisor
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Tel: 301.415.0202
Fax: 301.415.2395
Email: Karen.Henderson@nrc.gov*

Freedom of Information Act Guidance Concerning Communications Relating to March 2011 Nuclear Events in Japan

On March 16, 2011, the Nuclear Regulatory Commission (NRC) received a formal Freedom of Information Act (FOIA) request from the Associated Press for the following information related to the recent nuclear events in Japan:

“Pursuant to the federal Freedom of Information Act, 5 U.S.C. § 552, I request access to and copies of all communications between the NRC, the Department of Energy, GE Energy and Hitachi-GE Nuclear Energy pertaining to the Japanese nuclear incidents caused by the March 11 earthquake and tsunami. This includes problems at the following three facilities: Fukushima Dai-ichi, Fukushima Daini, and Onagawa. ...The communications should include emails, faxes, and written correspondence between the commission's chairman, its four commissioners, their staffs, and all other NRC employees to and from the Department of Energy and to and from GE Energy, Hitachi-GE Nuclear Energy, and its designated representatives.”

This paper provides guidance to the staff on responding to this FOIA. This guidance has been coordinated with the Office of the General Counsel (OGC).

Background:

NRC's agency-to-agency information exchange Arrangements obligate NRC to hold information in the same manner as the originating countries would hold the information. The exchange arrangements expressly state that NRC will comply with the commitments in the arrangement to the extent allowed under the law. Exchange arrangements are not law, as they are not ratified, like treaties. For example, FOIA trumps an exchange arrangement. If information received from a foreign counterpart under an agency-to-agency Arrangement cannot be legally withheld under FOIA, NRC would have to disclose it.

To meet NRC's obligations under the exchange Arrangements, NRC needs to be sure that it can withhold the information under FOIA. NRC should not accept any documents from its foreign counterparts to be held in confidence without making the determination that NRC can, under the law, withhold it. Otherwise NRC will be in non-compliance with its exchange Arrangements.

There are currently three FOIA requests for which this guidance is applicable. FOIA/PA-2011-0118 covers records from 3/11 to 3/16/2011. FOIA/PA-2011-0140 covers records in Office of International Programs Director Doane's in and sent boxes that relate to the same type of records. FOIA/PA-2011-0147 will also capture this type of information and the dates for this FOIA are from 3/11 to 3/24/2011.

Specific to events in Japan:



OGC contact: Sean Croston; FOIA contact: Donna Sealing

From: Doane, Margaret
Sent: Wednesday, April 13, 2011 3:48 PM
To: Ramsey, Jack; Mamish, Nader; Henderson, Karen
Subject: FW: Read out from 4/13 meetings
Attachments: Doc1.docx

(b)(5)

From: Wittick, Brian
Sent: Wednesday, April 13, 2011 7:27 AM
To: Doane, Margaret; Abrams, Charlotte; Foggie, Kirk; Young, Francis; Bloom, Steven
Subject: Read out from 4/13 meetings

Summary – 4/13

NISA/TEPCO Meeting

Discussed development of topic-specific engineering meeting planning (ie. subgroups), including plans for an engineer-engineer level meeting at 1600 concerning MELCOR analysis.

Noted that SFP samples were taken on #4 reactor (this is important because it is really the first piece of hard data that will tell whether there is ongoing criticality, fuel damage, etc in the pool), and provided that pictures showed the pool was down 4', which indicates the fuel is covered by water.

INPO interactions with TEPCO were noted to be further developing and expanding.

NRC and NISA are discussing making the regular meeting a "steering group" type meeting, with several working groups to address specific topics.

AREVA was at the meeting to discuss contaminated water cleanup (b)(5) (b)(5). They mentioned a proprietary process AREVA has for contamination cleanup (b)(5).

Nakagawa lunch

Chuck Casto and Brian attended lunch with Nakagawa.

(b)(5)

The confinement working group meeting has been permanently canceled. They will address any questions that may arise at other meetings as necessary.

Cabinet Meeting

The Cabinet discussed their implementation of multiple layers of defense for the Fukushima cooling water electrical supplies. These reflected issues previously pressed by the NRC team. The Cabinet also presented a number of items they desired ongoing assistance with and some successes with equipment and supplies to support their mitigation efforts. The Cabinet also noted the usefulness of the newly developed subgroup meetings, as mentioned above, and concluded that the Cabinet meetings would be held less frequently because of this.

Comment: there appeared an interest in several meetings over the last two days to reduce the frequency of engagement.

From: Doane, Margaret
Sent: Wednesday, April 13, 2011 3:49 PM
To: Mamish, Nader; Ramsey, Jack
Subject: RE: Assistance Needed Regarding Future NRC-Japan Efforts and Costs

(b)(5)

From: Mamish, Nader
Sent: Wednesday, April 13, 2011 7:28 AM
To: Doane, Margaret; Ramsey, Jack
Subject: RE: Assistance Needed Regarding Future NRC-Japan Efforts and Costs

Thanks.

(b)(5)

From: Doane, Margaret
Sent: Tuesday, April 12, 2011 5:33 PM
To: Mamish, Nader; Ramsey, Jack
Subject: FW: Assistance Needed Regarding Future NRC-Japan Efforts and Costs

Please see the request below.
Margie

From: Rothschild, Trip
Sent: Tuesday, April 12, 2011 3:00 PM
To: Virgilio, Martin; Doane, Margaret; Dyer, Jim; Brown, Milton
Cc: Burns, Stephen; Hirsch, Patricia
Subject: Assistance Needed Regarding Future NRC-Japan Efforts and Costs

Lawyer-Client Information

(b)(5)

From: Doane, Margaret
Sent: Wednesday, April 13, 2011 3:44 PM
To: 'Shaffer, Mark R'
Subject: FW: RESPONSE - IAEA Technical Briefing Summary for April 12, 2011

See positive comments below. Great job.
Thanks,
margie

From: Weber, Michael
Sent: Wednesday, April 13, 2011 6:54 AM
To: Wiggins, Jim
Cc: Virgilio, Martin; Doane, Margaret; Mamish, Nader; Golder, Jennifer; Shaffer, Mark R; ET05 Hoc; ET01 Hoc; OST02 HOC; Dyer, Jim
Subject: RESPONSE - IAEA Technical Briefing Summary for April 12, 2011

Thanks, Jim. Is the document that you attached from the IAEA Technical Briefing a product prepared by Mark in Vienna based on the Technical Briefing? I found the summary to be useful and informative.

From: Wiggins, Jim
Sent: Wednesday, April 13, 2011 5:32 AM
To: Virgilio, Martin; Weber, Michael; Dyer, Jim; Carpenter, Cynthia; Boger, Bruce; Johnson, Michael; Zimmerman, Roy
Subject: FW: IAEA Technical Briefing Summary for April 12, 2011

Se the attached FYI

Also, heard overnight that a remote visual check of the U4 SFP indicated water over the top of the fuel bundles (5-10 ft).

From: LIA08 Hoc
Sent: Wednesday, April 13, 2011 5:23 AM
To: RST07 Hoc; Hoc, PMT12; Wiggins, Jim
Subject: FW: IAEA Technical Briefing Summary for April 12, 2011

For your info. Jeff Temple

From: LIA02 Hoc
Sent: Wednesday, April 13, 2011 4:19 AM
To: LIA08 Hoc
Subject: FW: IAEA Technical Briefing Summary for April 12, 2011

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Wednesday, April 13, 2011 4:19 AM
To: Shaffer, Mark R; Scheland, Mark DL; IAEA Vienna; Davies, Glyn T
Cc: [REDACTED] (b)(6)

[REDACTED] (b)(6)

Subject: IAEA Technical Briefing Summary for April 12, 2011

IAEA Technical Briefing on Fukushima Accident - April 12, 2011

The IAEA Technical Briefing on April 12 was led by Deputy Director General Denis Flory, and supported by Mr. Miro Lipar, from the Division of Nuclear Installation Safety; Ms. Elena Buglova, Acting Director for the Incident & Emergency Center; and Ms. **Maria Betti**, Director of IAEA's Marine Environmental Laboratories in Monaco.

Current Situation

Overall, the situation at the Fukushima Daiichi plant remains very serious, but there are early signs of recovery in some functions such as electrical power and instrumentation.

Provisional INES Level 7 Rating

IAEA confirmed that the Nuclear and Industrial Safety Agency (NISA) has submitted a provisional International Nuclear and Radiological Event Scale (INES) Level 7 rating for the accident at the Fukushima Daiichi nuclear power plant. This new provisional rating considers the accidents that occurred at Units 1, 2 and 3 as a single event on INES and uses estimated total release to the atmosphere as a justification.

Previously, separate provisional INES Level 5 ratings had been applied for **Units 1, 2 and 3**.

The provisional rating was determined by NISA after it received the results of the analysis conducted by the Japan Nuclear Energy Safety Organization (JNES). NISA then applied the INES assessment methodology to calculate the total estimated release in terms of radiological equivalence to I-131.

Based on this provisional assessment, NISA concluded that the accident would be provisionally rated INES Level 7 as per the definition in the 2008 Edition of the INES Manual, which identifies a level & accident as "*An event resulting in an environmental release corresponding to a quantity of radioactivity radiologically equivalent to a release to the atmosphere of more than several tens of thousands of terabequerels of I-131.*"

NISA estimates that the release of radioactive material to the atmosphere is approximately 10% of the Chernobyl accident, which is the only other accident to have an INES Level 7 rating.

Protective Measures

"On April 11, the Government of Japan announced that they had concluded to establish 'Planned Evacuation Areas' and 'Evacuation prepared Area' in the areas beyond the 20km radius from the Fukushima Daiichi nuclear power plant. The review was conducted because the Government considered the safety of residents its first priority. The Government of Japan considered the standards recommended by the International Commission on Radiological Protection (ICRP) and the International Atomic Energy Agency (IAEA) as part of the review.

With regard to the 'Planned Evacuation Areas', the Japanese authorities have found that the areas beyond 20 km radius could be exposed to over 20mSv during the course of the next one year, approximately until next March. Therefore the Government of Japan will be consulting with the local communities in terms of planned evacuations, and at this juncture they are hoping that this planned evacuation will be carried out during the next month to come. The Planned Evacuation Areas that have been newly designated for evacuation include Kutsurao village, Namie town, Iitate village, a part of Kawamata town and a part of Minami Souma City.

The Government also defined a second new area called the 'Evacuation Prepared Area'. This area includes the area previously defined as the 'Indoor Evacuation Area' between 20 and 30 km from Fukushima Daiichi, but excludes those areas designated above as 'Planned Evacuation Areas'.

Within the 'Evacuation Prepared Area' people living in this area should be prepared for indoor evacuation or evacuation (outside of this area) in case of emergency. Voluntary evacuation is recommended within this area. Children, pregnant women, people who require nursing care and those who are hospitalized should not enter this area. Kindergartens, pre-schools, elementary schools, junior-high schools and high school will be closed within this area."

Earthquake of 11 April

With regard to earthquake that occurred in Japan at 08:16 UTC, on April 11, the IAEA International Seismic Safety Centre rated it as a 6.6 magnitude, revised from an initial 7.1 magnitude. The epicenter of the earthquake was in Fukushima Prefecture, 68 km from the Daiichi nuclear power plant. The epicenter was inland at a depth of 13.1 km. The IAEA contacted NISA who confirmed the following regarding the status of the Fukushima Daiichi nuclear power plant:

- No changes were observed on the readings at the on-site radiation monitoring posts;
- Workers were temporarily evacuated to the seismic evacuation shelter;
- Off-site power was lost and water injection pumps for **Units 1, 2 and 3** stopped but were restarted 50 minutes after the earthquake; and
- The injection of nitrogen into **Unit 1** stopped and resumed later.

Fukushima Daiichi Plant Status

In **Unit 1** fresh water is being continuously injected into the RPV through the feed-water line at an indicated flow rate of 6 m³/h using a temporary electric pump with off-site power. In **Units 2 and 3** fresh water is being continuously injected through the fire extinguisher lines at an indicated rate of 7 m³/h using temporary electric pumps with off-site power.

Nitrogen gas is being injected into the **Unit 1** containment vessel to reduce the possibility of hydrogen combustion within the containment vessel. The pressure in this containment vessel is increasing due to the addition of nitrogen. The pressure in the RPV is increasing as indicated on both channels of instrumentation. In **Units 2 and 3** Reactor Pressure Vessel and Drywell pressures remain at atmospheric pressure.

RPV temperatures remain above cold shutdown conditions in all Units, (typically less than 95 °C). In **Unit 1** temperature at the feed water nozzle of the RPV is 221 °C and at the bottom of the RPV is 120 °C. In **Unit 2** the temperature at the feed water nozzle of the RPV is 155 °C. The temperature at the bottom of the RPV was not reported. In **Unit 3** the temperature at the feed water nozzle of the RPV is 97 °C and at the bottom of the RPV is 111 °C.

There has been no change in status in **Units 4, 5 and 6** and the Common Spent Fuel Storage Facility.

Radiation Monitoring

On April 11, deposition of both iodine-131 and cesium-137 was detected in 6 and 8 prefectures respectively. The values reported for iodine-131 ranged from 2.1 to 35 Bq/m² and for cesium-137 from 5.2 to 41 Bq/m².

Gamma dose rates are measured daily in all 47 prefectures, the values tend to decrease. For Fukushima, on April 11 a dose rate of 2.1 µSv/h, for the Ibaraki prefecture a gamma dose rate of 0.15 µSv/h was reported. The gamma dose rates in all other prefectures were below 0.1 µSv/h.

Dose rates are also reported specifically for the Eastern part of the Fukushima prefecture, for distances of more than 30 km to Fukushima-Daiichi. On April 11, the values in this area ranged from 0.2 to 25 µSv/h.

In an additional MEXT monitoring program, on April 11 measurements were reported for 25 cities in 13 prefectures. In Fukushima City, a value of 0.42 µSv/h was observed. In all other cities, gamma dose rates ranged from 0.04 to 0.13 µSv/h. Typical normal background levels are in the range of 0.05 to 0.10 µSv/h. Also on April 11, the IAEA Team made measurements at 9 different locations in the Fukushima area at distances of 30 to 58 km, West to Northwest from the Fukushima nuclear power plant. At these locations, the dose rates ranged from 0.1 to 2.2 µSv/h. At the same locations, results of beta-gamma contamination measurements ranged from 0.01 to 0.28 Megabecquerel/m².

Analytical results related to food contamination were reported by the Japanese Ministry of Health, Labor and Welfare on 11 April, and covered a total of 21 samples taken on 8 April and 10 to 11 April. Analytical results for all of the samples of various vegetables, spinach and other leafy vegetables, fruit (strawberries), various meats (chicken, beef and pork), seafood and unprocessed raw milk in eight prefectures (Fukushima, Gunma, Hyogo,

Ibaraki, Miyagi, Niigata, Saitama and Yamagata) indicated that I-131, Cs-134 and/or Cs-137 were either not detected or were below the regulation values set by the Japanese authorities.

Marine Monitoring

TEPCO is conducting a program for seawater (surface sampling) at a number of near-shore and off-shore monitoring locations. Up until April 3, a general decreasing trend was observed at the sampling points TEPCO 1 to TEPCO 4. After the discharge of contaminated water on April 4, a temporary increase has been reported. As of April 12, no new data for TEPCO 1 - 10 sampling points have been reported.

MEXT Off-shore Monitoring Program

As reported in previous briefings, MEXT initiated the off-shore monitoring program on March 23 and subsequently points 9 and 10 were added to the off-shore sampling scheme. On April 4, MEXT added two sampling points to the north and west of sampling point 1. These are referred to as points A and B. As of April 12, no new data for all MEXT sampling points have been reported.

Questions from Member States

Member States asking questions today included Japan, Singapore, Korea, Russia and France. Nearly all questions centered on more detail regarding the INES 7 rating. Singapore and Korea in particular wanted to know what member states "should be doing differently in response to the new rating." Despite DDG Flory's best efforts to explain that INES is meant to relay information based on scientific findings, not to describe conditions on the ground or real effects on human health or the environment, the member states continued to probe for what actions they should take in response to this "new" decision. Russia was also vocal in this discussion, stating that it is "not appropriate to compare accidents like Chernobyl and others, because this is not what the INES system is for." Russia also (correctly) pointed out that the accident at Fukushima is still ongoing and it is premature to speculate how much radioactivity will be released, in compassion to other accidents. Seemingly, Russia was concerned with Japan's announced that the radioactive releases from Fukushima so far are only 10% of what Chernobyl released. Russia also asked several questions about Japan's plans for "storing and/or containing" the massive amount of contaminated water that continues to be accumulated on site. DDG reminded member states that storage tanks, trenches and other means of containment are currently being completed on site, in hope that there will be adequate storage capacity to meet this need.

Closing Remarks

DDG Flory closed the meeting by stating that Philippines and the Republic of Korea have also now provided IAEA with monitoring data and/or links to their websites. Although not specifically mentioned by DDG Flory, the USG provided IAEA with monitoring data (from the Environmental Protection Agency) on April 9. Lastly, DDG Flory stated that the next technical briefing will be conducted on April 19.

This email is UNCLASSIFIED.

From: Doane, Margaret
Sent: Wednesday, April 13, 2011 3:19 PM
To: Ramsey, Jack; Henderson, Karen; Fragoyannis, Nancy
Subject: FW: Followup to Interagency Meeting on Japan Funding Coordination and Reimbursements (FOUO)
Attachments: results/action items RE: Interagency meeting on Japan Funding Coordination and Reimbursements (FOUO); NRC Japan Event Cost Projections.docx

For the memo

From: Maxin, Mark
Sent: Wednesday, April 13, 2011 2:39 PM
To: Doane, Margaret; Fragoyannis, Nancy
Subject: FW: Followup to Interagency Meeting on Japan Funding Coordination and Reimbursements (FOUO)

Is this the document you are looking for?

Mark J Maxin
Assistant General Counsel for Administration
Office of the General Counsel
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Md. 20852
301-415-1554

From: Dyer, Jim
Sent: Friday, April 08, 2011 11:15 AM
To: Golder, Jennifer; Brown, Milton; Maxin, Mark; Evans, Michele
Cc: Mitchell, Reggie
Subject: Followup to Interagency Meeting on Japan Funding Coordination and Reimbursements (FOUO)

To all, below is the proposed response that I plan to send asap (since it was due at 9 am) to OMB in followup to our meeting yesterday (see attached e-mail summary). Please give a quick review if you can; I intend on launching it in the next 10 minutes. Sorry for the late notice. Jim

Attached is the updated estimate for NRC incremental costs associated with the international response provided for the ongoing reactor events in Japan. It is a best estimate of anticipated costs involving two aspects of our overall response efforts for the NRC Japan team deployed initially with the USAID DART and NRC Headquarters Support to the team. Additional NRC costs are being accumulated for briefings, FOIA responses, reviewing domestic designs and developing regulatory lessons learned which are not captured in the attached estimates. We have outlined three levels of support over approximately 6 months (24 weeks) divided into three phases;

- Emergency Response Phase (4 weeks) where NRC staff are embedded with USAID DART and NRC Headquarters Operations Center is staffed providing around the clock support with a Reactor Safety Team, Protective Measures Team, Executive Team and Liaison Team.
- Heightened Response Phase (8 weeks) where NRC staff continue to support in country activities at a reduced staffing level and NRC Headquarters Operations Center continues to be staffed around the clock, but at a reduced level from the Emergency Response Phase, and

-Long Term Response Phase (12 weeks) where NRC staff continue to support in country activities at a further reduced level and NRC Headquarters support is provided through normal organizational taskings.

These phases assume continued stabilization of the reactor safety situation during this period. Cost estimates for the first phase consider support by USAID for the NRC Japan Team, but this support is assumed absent for the second and third phases and we have increased out traveler support by an amount that may be uncertain.

NRC does not believe it should be reimbursed by the Japanese Government for its costs incurred in responding to the reactor event. Once the situation is stable in Japan, it may be appropriate for the NRC to enter into a reimbursable agreement for providing advice to the Government of Japan. NRC also believes that its salaries and benefits expenses associated with support for the Japanese Government should be categorically excluded from reimbursement considerations. NRC appropriations are supported by industry fees. As such, NRC collects approximately 90 % of its appropriations from licensees through fees, less specific appropriations for Generic Homeland Security, Waste Incidental to Reprocessing and Nuclear Waste Fund activities. NRC appropriations specifically allow for support to foreign governments and international organizations which is accounted for as part of the 10% fee relief activities. Depending on other agency fee relief activities, the increased support for Japan event response may exceed 10% of agency FY 2011 appropriations resulting in increased fees to NRC licensees.

NRC Japan Event Cost Projections

Emergency Response Phase (4 Weeks)

- Japan Team (12-15 Travelers)
 - o Salaries and Benefits \$ 250K
 - o Traveler Support not provided by USAID \$ 120K
 - Japan Team Total \$ 370K

- HQ Operations Center (35-50 StaffX 3 Shift Support)
 - o Salaries and Benefits \$ 1,800K
 - o Operations Center Support \$ 130K
 - HQ Ops Ctr Total \$ 1,930K

Estimated Total NRC Emergency Response Phase Costs: \$ 2,300K

Heightened Response Phase (8 Weeks)

- Japan Team (10 Actual Travelers)
 - o Salaries and Benefits \$ 280K
 - o Travel and Support Costs \$ 1,220K
 - Japan Team Total \$ 1,500K

- HQ Operations Center (10 Staff X 3-Shift Support)
 - o Salaries and Benefits \$ 840K
 - o Operations Center Support \$ 260K
 - HQ Ops Ctr Total \$ 1,100K

Estimated NRC Heightened Response Phase Costs: \$ 2,250K

Long Term Response Phase (12 Weeks)

- Japan Team (6 Actual Travelers)
 - o Salaries and Benefits \$ 250K
 - o Travel and Support Costs \$ 1,000K
 - Japan Team Total \$ 1,250K

- Headquarters Staff Support (10 Staff-No Shift Work)
 - o Salaries and Benefits \$ 420K
 - o Contract Support Costs \$ 250K
 - Headquarters Total \$ 670K

Estimated NRC Costs for Long Term Response Phase Costs: \$ 1,920K

Total NRC Estimated Costs for Japan Event Response \$ 6,470K

From: Doane, Margaret
Sent: Wednesday, April 13, 2011 3:19 PM
To: Ramsey, Jack; Henderson, Karen
Cc: Fragoyannis, Nancy
Subject: FW: NRC TEAM IN JAPAN

For the memo

From: Maxin, Mark
Sent: Wednesday, April 13, 2011 2:42 PM
To: Doane, Margaret; Fragoyannis, Nancy
Subject: FW: NRC TEAM IN JAPAN

This may be helpful as well....

Mark J Maxin
Assistant General Counsel for Administration
Office of the General Counsel
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Md. 20852
301-415-1554

From: Cohen, Harold(GC/DCHA) [mailto:hcohen@usaid.gov]
Sent: Sunday, March 20, 2011 7:21 AM
To: Burns, Stephen; Gomer, Lisa (GC)
Cc: Maxin, Mark
Subject: Re: NRC TEAM IN JAPAN

Steve:

Thanks very much for your email. This provides a much better understanding of NRC's perspective.

(b)(5)

As discussed with Mark and others in your office, we believe we have a fair amount of flexibility from our side and will be happy to work with you once we have definitive guidance from Agency leadership.

Thanks again to you, Mark and others for your assistance in this matter.

Hal

Sent from BlackBerry

From: Burns, Stephen
To: Gomer, Lisa (GC)
Cc: Maxin, Mark ; Cohen, Harold(GC/DCHA)
Sent: Sat Mar 19 18:15:14 2011
Subject: NRC TEAM IN JAPAN

Lisa –

This follows up to our conversation yesterday regarding US AID support for the NRC staff embedded with the DART team in Japan. I was also on a phone call this afternoon with our CFO and Chris Leonardo at US AID who said she was going to get in touch with your office.

(b)(5)

Here's where I think things are from an NRC perspective:

- NRC staff are in Japan at the invitation of US AID as part of the humanitarian mission and would not be there otherwise.
- Although NRC has some international programs for cooperation and assistance (particularly for regulatory assistance to countries newly developing a regulatory program and cooperative research and the like), NRC is not typically involved in emergency response outside the US. Those response activities that are within our scope of responsibility relate essentially to incidents at NRC-regulated facilities.
- As a fee-based agency, billing the activities in Japan to the US industry is problematic.

- (b)(5)

(b)(5)

(b)(5)

Let me know if there is something else you need from us or have questions. I can be reached by email or by the cell number listed below or my home phone (b)(6)

Steve

Stephen G. Burns
General Counsel
U.S. Nuclear Regulatory Commission
Mail Stop 15-D-21
11555 Rockville Pike
Rockville, MD 20852
301-415-1743 (office)
(b)(6) (mobile)
301-415-3086 (fax)
Stephen.Burns@nrc.gov

From: Lisann, Elizabeth
Sent: Wednesday, April 13, 2011 2:15 PM
To: Doane, Margaret
Subject: Seminar in France

Margie:

Hello. Do you know if anyone from NRC is participating in an upcoming nuclear safety seminar in Paris that is being sponsored by ASN (Autorite de Surete Nucleaire) on May 5-6? The French embassy reached out to us, so thought I would check. I have a copy of the Seminar agenda – heavy focus on first lessons learned from Fukushima.

Thanks,

Beth

Sr. Policy Advisor
Office of Commissioner Magwood
Tel: 301.415.8428

From: Sazawal, Vijay K <SazawalV@usec.com>
Sent: Wednesday, April 13, 2011 1:19 PM
To: Doane, Margaret
Subject: Briefing on Fukushima

Dear Ms. Doane,

Ambassador Arun Singh (DCM) from the Indian Embassy in Washington sought my assistance in requesting the NRC to brief the Indian Embassy officials on the Fukushima Accident. I wonder if such a briefing is possible. Can you please help me in contacting the right person in the NRC who can respond to such a request?

Thank you for your help.

Regards,

Vijay Sazawal
USEC Inc.

From: Doane, Margaret
Sent: Wednesday, April 13, 2011 9:19 AM
To: 'Shaffer, Mark R'
Cc: Borchartt, Bill; Schwartzman, Jennifer; Jones, Andrea
Subject: RE: Draft reporting cable for Chairman's CNS meetings

(b)(5)

Margie

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Wednesday, April 13, 2011 8:36 AM
To: Doane, Margaret
Cc: Borchartt, Bill; Schwartzman, Jennifer; Jones, Andrea
Subject: RE: Draft reporting cable for Chairman's CNS meetings

(b)(5)

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Wednesday, April 13, 2011 2:29 PM
To: Shaffer, Mark R
Cc: Borchartt, Bill; Schwartzman, Jennifer; Jones, Andrea
Subject: RE: Draft reporting cable for Chairman's CNS meetings

Mark,

(b)(5)

Margie

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Wednesday, April 13, 2011 2:40 AM
To: Doane, Margaret
Cc: Borchartt, Bill; Schwartzman, Jennifer
Subject: Draft reporting cable for Chairman's CNS meetings

(b)(5)

I did not attend the meeting with DDG Flory, but I do have two "observations":

1.

(b)(5)

2.

-Mark

This email is UNCLASSIFIED.

From: Schwartzman, Jennifer [mailto:Jennifer.Schwartzman@nrc.gov]
Sent: Tuesday, April 12, 2011 6:04 PM
To: Borchardt, Bill; Shaffer, Mark R
Subject: Draft reporting cable for Chairman's CNS meetings

Bill and Mark,

Please find attached a draft of the reporting cable for last week's meetings. We'd appreciate your views. In particular,

(b)(5)

(b)(5)

Chairman's office has it for simultaneous review.

Thanks!

Jen

Jennifer Schwartzman Holzman
Office of International Programs
U.S. Nuclear Regulatory Commission
+1-301-415-2317
jennifer.schwartzman@nrc.gov

NOTE: Please note new email address above. My old email address, jks1@nrc.gov, will no longer work on this system. Please update your contact lists accordingly.

From: Doane, Margaret
Sent: Tuesday, April 12, 2011 11:21 PM
To: Virgilio, Martin; Fragoyannis, Nancy
Cc: Williams, Shawn; Schwartzman, Jennifer
Subject: RE: TP for Phone Call with Administrator D 4-13 ver 2.docx
Attachments: Talking Points for Phone Call with Administrator D.docx

(b)(5)

Margie

From: Virgilio, Martin
Sent: Tuesday, April 12, 2011 7:02 PM
To: Fragoyannis, Nancy; Doane, Margaret
Cc: Williams, Shawn; Schwartzman, Jennifer
Subject: RE: TP for Phone Call with Administrator D 4-13 ver 2.docx

Nancy

(b)(5)

Marty

From: Fragoyannis, Nancy
Sent: Tuesday, April 12, 2011 6:39 PM
To: Doane, Margaret; Virgilio, Martin
Cc: Williams, Shawn; Schwartzman, Jennifer
Subject: TP for Phone Call with Administrator D 4-13 ver 2.docx

Margie and Marty see attached talking points.

(b)(5)

Fyi the call is at 10:45am.

Thanks

Nancy

Talking Points for Phone Call with Administrator D'Agostino, DOE/NNSA

Wednesday, April 13, 2011, 10:45-11:00 AM, Call to be initiated by the Administrator's office

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(b)(5)

From: Doane, Margaret
Sent: Tuesday, April 12, 2011 6:00 PM
To: Skeen, David; Brenner, Eliot
Cc: Borchardt, Bill
Subject: RE: Possible press conference questions
Attachments: image001.gif; image002.gif; image003.gif; image004.gif

(b)(5)

Let me know if you need any help with this.
Margie

From: Skeen, David
Sent: Tuesday, April 12, 2011 11:46 AM
To: Brenner, Eliot
Cc: Borchardt, Bill; Doane, Margaret
Subject: Re: Possible press conference questions

Thanks, Eliot!

From: Brenner, Eliot
To: Skeen, David
Sent: Tue Apr 12 11:44:36 2011
Subject: RE: Possible press conference questions

(b)(5)

Eliot

From: Skeen, David
Sent: Tuesday, April 12, 2011 10:12 AM
To: Doane, Margaret; Brenner, Eliot
Cc: Borchardt, Bill
Subject: Fw: Possible press conference questions

Margie/Eliot,

IAEA provided some potential questions for the press conference on Thursday.

Take a look and see if you can come up with some talking points.

Thanks

From: M.Svab@iaea.org <M.Svab@iaea.org>
To: nnsalgj@sina.com <nnsalgj@sina.com>; bill.borchardt@iaea.org <bill.borchardt@iaea.org>;
patrick.majerus@ms.etat.lu <patrick.majerus@ms.etat.lu>
Cc: jiangwei@mep.gov.cn <jiangwei@mep.gov.cn>; Skeen, David
Sent: Tue Apr 12 10:01:27 2011
Subject: FW: Possible press conference questions

Dear All,

Please find enclosed the questions for Press Conference.

Best regards
Miro

From: WEBB, Greg
Sent: Tue 4/12/2011 3:41 PM
To: SVAB, Miroslav
Subject: Possible press conference questions

CNS Review Meeting Press Conference – 14 April 2011 Possible Questions

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(b)(4)

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Greg Webb
IAEA Press and Public Information Officer
Press@IAEA.org
Ph: 43-1-2600-22047
Mobile:
Fax: 43-1-2600-29610
www.iaea.org



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From: Doane, Margaret
Sent: Tuesday, April 12, 2011 5:58 PM
To: Magwood, William
Subject: FW: FYI - Nuclear science group call - OOO
Attachments: Trip Notes.doc

Commissioner,
Attached are Pete Lyons' notes from his trip to Japan.

-----Original Message-----

From: Lyons, Peter [mailto:Peter.Lyons@Nuclear.Energy.gov]
Sent: Monday, April 11, 2011 2:08 PM
To: Adams, Ian; Aoki, Steven; Binkley, Steve; Brinkman, Bill; Budnitz, Bob; Butnitz, Bob (pacbell.net); Finck, Phillip; Garwin, Dick (EOP); Garwin, Dick (IBM); Grossenbacher, John (INL); Hurlbut, Brandon; Kelly, John E (NE); Lee, Richard; McFarlane, Harold; Miller, Neile; Mustin, Tracy; Peterson, Per; Sheron, Brian; Steve Fetter; Szilard, Ronaldo; Owens, Missy
Cc: Smith, Haley; Chambers, Megan (S4); Narendra, Blake; Fitzgerald, Paige; Pitzer, Karrie S.
Subject: RE: Nuclear science group call - Today at 5:00pm EDT

Of possible interest, attached are my rough trip notes from last week in Japan.

-----Original Message-----

From: Adams, Ian
Sent: Monday, April 11, 2011 10:20 AM
To: Adams, Ian; Aoki, Steven; Binkley, Steve; Brinkman, Bill; Budnitz, Bob; Butnitz, Bob (pacbell.net); Finck, Phillip; Garwin, Dick (EOP); Garwin, Dick (IBM); Grossenbacher, John (INL); Hurlbut, Brandon; Kelly, John E (NE); Lee, Richard (NRC); Lyons, Peter; McFarlane, Harold; Miller, Neile; Mustin, Tracy; Peterson, Per; Sheron, Brian; Steve Fetter; Szilard, Ronaldo; Owens, Missy
Cc: Smith, Haley; Chambers, Megan (S4); Narendra, Blake; Fitzgerald, Paige; Pitzer, Karrie S.
Subject: Nuclear science group call - Today at 5:00pm EDT

Good morning,

Moving forward, we are going to do science group conference calls three times a week - on Monday, Tuesday, and Thursday at 5:00pm EDT. There will be a call this afternoon.

Please let me know if you have conflicts with this time.

Nuclear science group conference call schedule:

Monday, Tuesday, Thursday: 5:00pm EDT

Conference call information:

Please dial into (202) 586-2535

No PIN is needed.

Thanks
Ian

From: Adams, Ian
Sent: Wednesday, March 30, 2011 3:46 PM

To: Adams, Ian; Adams, Ian; Aoki, Steven; Binkley, Steve; Brinkman, Bill; Budnitz, Bob; Butnitz, Bob (pacbell.net); Finck, Phillip; Garwin, Dick (EOP); Garwin, Dick (IBM); Grossenbacher, John (INL); Hurlbut, Brandon; Kelly, John E (NE); Lee, Richard (NRC); Lyons, Peter; McFarlane, Harold; Miller, Neile; Mustin, Tracy; Peterson, Per; Sheron, Brian; Steve Fetter; Szilard, Ronaldo; Owens, Missy
Cc: Smith, Haley; Chambers, Megan (S4); Narendra, Blake; Fitzgerald, Paige; Pitzer, Karrie S.
Subject: Nuclear science group call - Today at 5:00pm EDT

Good afternoon,

Just a reminder, today's call will take place at 5:00pm EDT. Thursday's call will be at 4:00pm EDT.

Friday's call will now take place at 6:15pm EDT.

Please let me know if you have conflicts with those times.

Thanks,
Ian

Nuclear science group conference call schedule:

Wednesday 3/30: 5:00pm-6:00pm EDT

Thursday 3/31: 4:00pm-5:00pm EDT

Friday 4/1: 6:15pm-7:15pm EDT

Conference call information:

Please dial into (202) 586-2535

No PIN is needed.

From: Adams, Ian

Sent: Tuesday, March 29, 2011 6:55 PM

To: Adams, Ian; DL-NITSolutions; Owens, Missy

Cc: Smith, Haley; Chambers, Megan (S4); Narendra, Blake; Fitzgerald, Paige

Subject: Nuclear science group call schedule

Good afternoon,

Wednesday's call will take place at 5:00pm EDT. Thursday's call will move earlier, to 4:00pm EDT.

Friday's call will take place at 5:45pm EDT.

Please let me know if you have conflicts with those times.

Thanks
Ian

Nuclear science group conference call schedule:

Wednesday 3/30: 5:00pm-6:00pm EDT

Thursday 3/31: 4:00pm-5:00pm EDT

Friday 4/1: 5:45pm-6:45pm EDT

Conference call information:

Please dial into (202) 586-2535

No PIN is needed.

From: Adams, Ian
Sent: Monday, March 28, 2011 4:32 PM
To: DL-NITsolutions; Owens, Missy
Cc: Smith, Haley; Chambers, Megan (S4); Narendra, Blake; Fitzgerald, Paige
Subject: Quick science group call today - 7:00pm EDT

Good afternoon,

Dr. Holdren would like to pull everyone who is available together today at 7:00pm EDT for a few minutes. This is to discuss a technical question before a recommendation is made.

Apologies for the short notice - don't worry if you aren't able to make it, but for those of you who are able, we will have a brief call today from 7:00-7:15pm EDT.

Tomorrow's call will still take place as scheduled, at 4:45pm EDT. Wednesday's call will take place at 5:00pm EDT

Thanks
Ian

Nuclear science group conference call schedule:
Monday 3/28: 7:00pm-7:15pm EDT
Tuesday 3/29: 4:45pm-5:45pm EDT
Wednesday 3/30: 5:00pm-6:00pm EDT

Conference call information:
Please dial into (202) 586-2535
No PIN is needed.

Ian Adams
Office of the Secretary
Department of Energy
(202) 586-9585
ian.adams@hq.doe.gov

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TRIP NOTES
April 5-8 2011

- The long term nature of the recovery seems to be well understood, with an appropriate sense of urgency for near term actions. Hosono (assigned by PM to lead Fukushima accident efforts) had prepared a draft time line document and asked for feedback from NRC team leader Casto and me. Most of our comments concerned the need for short term stabilization of the site, remote cooling operations, and better instrumentation wherever possible. Salt removal was also stressed in addition to rad cleanup.
- Parting request from Hosono-issue a press release supportive of the ocean releases. I had told him that I believed the action was essential to avoid additional contamination.
- Need to reinforce infrastructure and plan for remote operations – I discussed this in many meetings and there was general agreement that this needs to be done quickly. On 4/7, TEPCO stated that they would have remote operation of the giraffes ready by April 21.
- Ambassador must either reissue the evacuation order on 4/15 or rescind it. The SNL team there is doing some worst case analyses, which are leading to a pretty moderate future threat. The evacuation order is issued in 30 day increments. Ambassador is leaning towards rescission, I concurred that situation is stabilizing.
- Need to clear space in spent fuel pools for handling of damaged materials – NISA has catalogued open SFP space throughout Japan. But they are trying to avoid use of elevated pools, which greatly limits their options. They are considering construction of a new SFP near 1F.
- Hosono – there will be no operation of units 5 and 6 for at least many years due to public concern. They are considering a tent over the damaged units to avoid dust movement and minimize rain.
- The PNNL team working on cooling issues seems to be very well integrated with and accepted by the Japanese leadership. I discussed with the PNNL team the need to involve other labs in the work, with which they agreed.
- In several meetings, I discussed how DOE labs can function as an honest broker to critique industrial proposals. There was strong interest in that DOE role.

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- TEPCO: they are rigging a water sampling system for the giraffes and will try to get SFP samples soon. They are very interested in water injection into the gap between primary containment and concrete and are exploring use of the "leak detection line" for injection. TEPCO is considering various options for Unit 2 to stop the apparent torus leak: grout the entire torus bldg (which seemed impossible to me), develop a closed loop recirc system fed by the leaking water in the torus area, and find the hole and fix it robotically (which they agree is rather hard to imagine).
- The NYT article with the leaked ODO document on stabilization strategies and potential worst cases was unfortunate. It was mentioned in many of my meetings. It was recognized that the leaked document was several days old and somewhat out of date, but the leak of the document may have impacted the level of trust between GOJ and US entities seeking to offer assistance.
- In many cases, Japanese leaders were not aware of papers under development by DOE and the consortium with NRC. An example is the corrosion paper, where TEPCO urgently needs advice on that issue and did not have the paper. Maybe these papers are still in review, or maybe we need a better and broader distribution.
- Mr. Omoto, NISA Commissioner, noted that the calls with Kondo, which include TEPCO on the line (I was not aware that TEPCO was present) are much less effective than they could be if the information was transmitted by email with minimal discussion. He noted that the English language skills of most of the TEPCO workers are extremely limited.
- JAEA is developing maps of contaminated areas that may be closed to agriculture. Dr. Suzuki wants any advice we have on Cs/Sr cleanup from soils and Monica Regalbuto has provided some suggestions.
- Toshiba Proposal – lays out a credible short- and long-term path for site stabilization and recovery, time scales may be ambitious. Large teams from Shaw, B&W, and Westinghouse (over 20 people) are working with Toshiba.
- GOJ, especially JAEA, seems eager to use the AMS capability after the DOE teams return home.
- The daily 11 a.m. meeting including NRC/TEPCO/NISA/DOE seems to be a good information exchange where questions can be asked on details of site operations.

Issues surrounding flow rate and containment flooding on Unit 1 were confusing. First I was told by INPO that TEPCO was not a member of the US BWR Owners Group and did not have access to the US SAMGs (Severe Accident Management Guidelines) until they were provided by the INPO team weeks after the quake. Then I was told by the GE-Hitachi team that TEPCO is a member of

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some other BWR Owners Group, presumably within Japan, and they have developed their own set of SAMGs, different from the US SAMGs. U.S. industry and the NRC were concerned that TEPCO was not injecting at adequate rates, but then an engineer-to-engineer talk between GE and TEPCO late on Thursday (apparently the first one of its kind) led to GE stating that the TEPCO approach might be OK. This issue seemed confused as I left on Friday.

- Kondo has formed 6 special project teams: radiation level reduction, spent fuel recovery and transport, remote control, long term cooling, recovery of rad waste, and environmental issues/radiation mapping. NISA and Hosono meet regularly with Kondo, at least every other day, and NISA's Nei referred to frequent emails from Kondo.
- TEPCO leadership: no acetylene was in Unit 4. All cutting was by EDM.
- Hattori, JAIF, is discussing with Hosono a review commission with international participation reporting to the GOJ, analogous to the Kemeny report for TMI. I assured him that I was confident that key US nuclear experts would be willing to participate on such a commission.
- Significant advances while I was in Japan: Leak into the ocean from Unit 2 was stopped, nitrogen injection into Unit 1 started, and low activity waste was emptied from tanks into the ocean to enable storage of high activity wastes. The INL rad-hard robot was arriving as I left the country.
- Several GOJ leaders with whom I usually readily converse in English either used translators or used significantly degraded English. The stress on key leaders is very evident.
- Dr. Atsu Suzuki started our meeting at JAEA with a profound apology for destroying the US opportunity for a nuclear renaissance.
- Shortly before my arrival, NISA issued a new set of regulations requiring "station black-out" precautions analogous to the B.5.b. provisions from the NRC.

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Documents Received

Many in Japanese with minimal translation.

Efforts to end the Fukushima Nuclear Incident (draft) – Steps to be taken now, by June, by September, long-term. Goshi Hosono – Proprietary

Notes on cooling options – Omoto Proprietary

Data on Spent Fuel Pool Temperatures - Omoto

Space available in all Spent Fuel Pools in Japan – NISA Proprietary

Proposal to TEPCO for Recovery Operations from Tohoku Earthquake –Toshiba Proprietary (with Shaw, Westinghouse, B&W)

Implementation of Emergency Safety Measures at other Power Plants drawn from the 2011 Accident at Fukushima Dai-ichi and Dai-2 NP Stations. Released March 30. NISA

The 2011 Pacific Earthquake off the Pacific coast of Tohoku and the Seismic damage to the NPPs. NISA and JNES, presented on April 4, 2011 at the Convention on Nuclear Safety, Vienna

Summary of the Fukushima Daiichi Accident, Atsuyuki Suzuki, JAEA

Estimated area for long-term evacuation, Atsuyuki Suzuki, JAEA proprietary

Information on Status of NPPs in Fukushima , 20:00 April 7– JAIF

Observed Doses by Prefecture and Date – JAIF

Cooling Options – JAIF

Monitoring of Radioactive Concentrations in Nearby Sea of Fukushima Daiichi – JAIF

Observed doses around Fukushima, AMS and others – JAIF

Notes on Decision Points/Fundamental Assumptions: NRC/Casto – OUO

Briefing for Ambassador – Yokota – U.S. Forces Japan/Joint Task Force 519 - OUO

From: Doane, Margaret
Sent: Tuesday, April 12, 2011 5:52 PM
To: Ramsey, Jack; Henderson, Karen; Mamish, Nader; Abrams, Charlotte
Subject: FW: Long Term Items for Japan

Who ok'd this. Is it consistent with our memos that we are working on.
Margie

From: Wittick, Brian
Sent: Tuesday, April 12, 2011 1:36 AM
To: Bloom, Steven; Ramsey, Jack; Evans, Michele
Cc: Collins, Elmo; Mamish, Nader; Doane, Margaret
Subject: Fw: Long Term Items for Japan

Steve,

(b)(5)

Anyway, we would appreciate understanding the plan here shortly for the next group to rotate in and plans for transitioning off USAID.

Thanks

Sent from NRC BlackBerry
Brian Wittick

(b)(6)

From: Collins, Elmo
To: Wittick, Brian
Sent: Tue Apr 12 00:27:11 2011
Subject: FW: Long Term Items for Japan

Should be resource

From: Casto, Chuck
Sent: Monday, April 11, 2011 11:30 PM
To: Collins, Elmo
Subject: FW: Long Term Items for Japan

From: Bloom, Steven
Sent: Friday, March 18, 2011 12:35 AM
To: Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster, Jack; Cook, William; Devercelly, Richard; Ulses, Anthony; Trapp, James; Smith, Brooke; Foggie, Kirk

Cc: Emche, Danielle
Subject: Long Term Items for Japan

All,

I am working with Jack Ramsey to come up with what would be needed to support an NRC staff for 3 -6 months over in Japan. I came up with some of my own brainstorming thoughts which are below. Please look at my list and think of other items which you may think are necessary to support having members of the NRC over in Japan for about 3 to 6 months. Please send me back your ideas as soon as you can.

Computers and Printers
Office Supplies
Blackberry
Phone Cards
Foreign Power converters
Extension Cords
Radiation Devices
Dosimeters
Anti Cs
Hard Hats

More Staff
Passport support
Contractors
Translators

Analysts to evaluate event
Severe Accident Analysts
Reactor Physics Staff
Research Staff

Money for effort

Easy way to convert dollars to Yen

Access to Medical Doctors
Medicines

Hotel/Apartment arrangements
Airlines

Thank you.

Steve

Steven Bloom, International Relations Specialist
International Cooperation and Assistance Branch (ICA)
301-415-2431
O-4F4
M/S O-4E21

From: Doane, Margaret
Sent: Tuesday, April 12, 2011 12:37 PM
To: Schwartzman, Jennifer
Subject: FW: For review: Draft reporting cable
Attachments: Draft Cable Report for CNS.docx

Hi Jen, did you send to Mark for UNVIE review at the same time or were you waiting for Chmns office. (b)(5)

(b)(5)

Margie

From: Schwartzman, Jennifer
Sent: Tuesday, April 12, 2011 12:03 PM
To: Warren, Roberta; Marshall, Michael
Cc: Jones, Andrea; Doane, Margaret
Subject: For review: Draft reporting cable

Good afternoon,

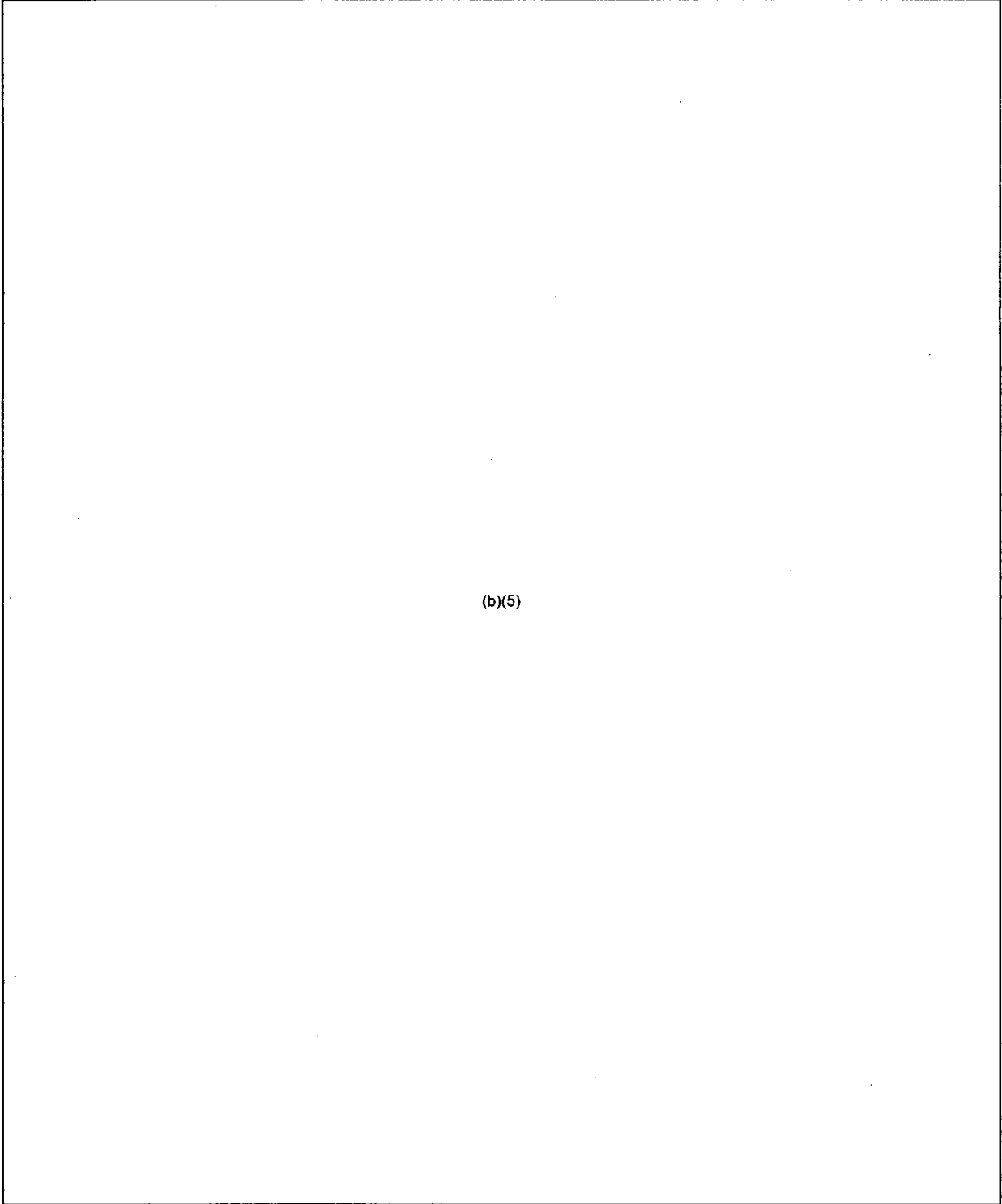
Please see attached draft reporting cable from the Chairman's CNS activities. We would appreciate your office's comments on it by the end of the week. Thanks so much!

Jen

Jennifer Schwartzman Holzman
Office of International Programs
U.S. Nuclear Regulatory Commission
+1-301-415-2317
jennifer.schwartzman@nrc.gov

NOTE: Please note new email address above. My old email address, jks1@nrc.gov, will no longer work on this system. Please update your contact lists accordingly.*

Draft Cable Report for CNS



(b)(5)

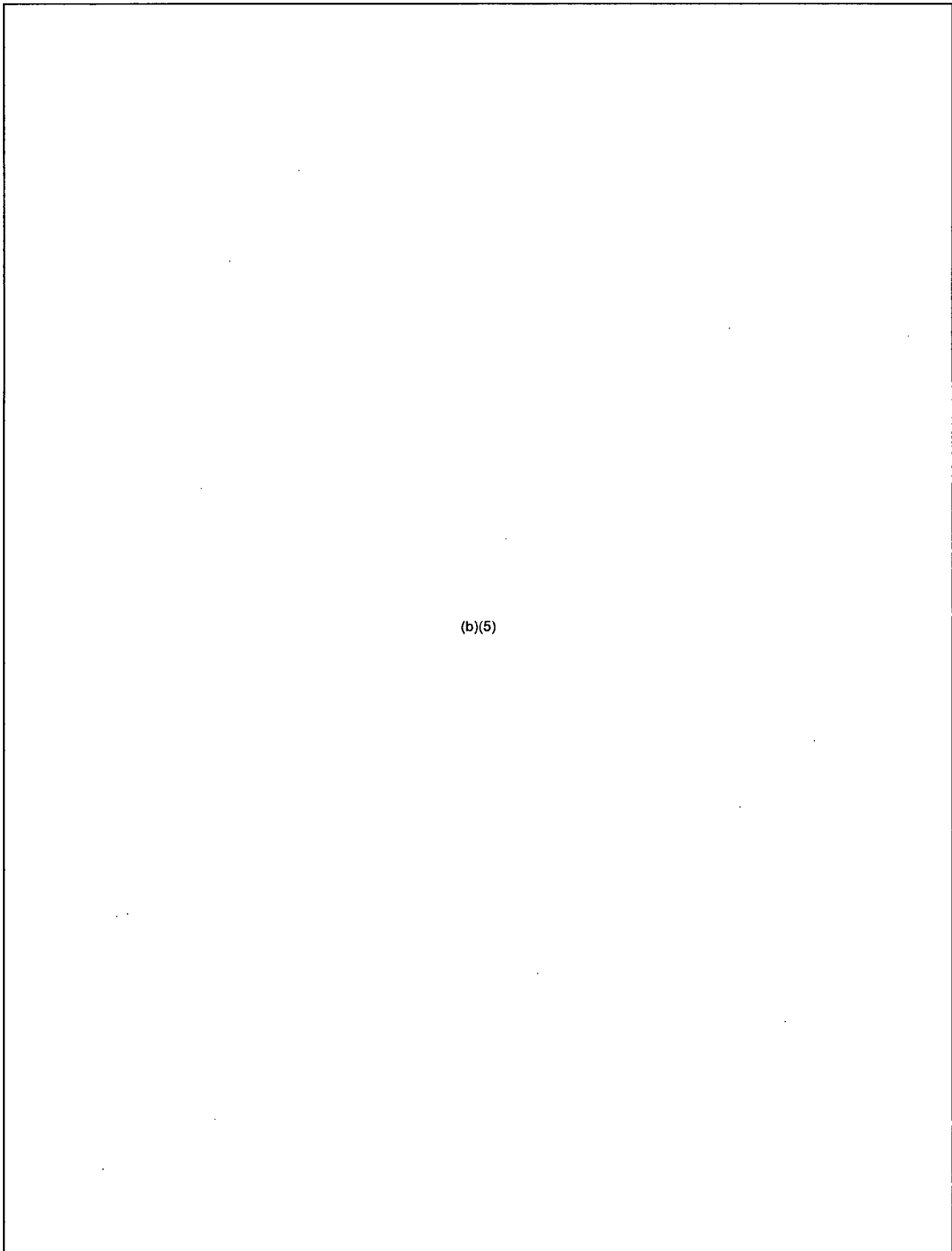
(b)(5)

(b)(5)

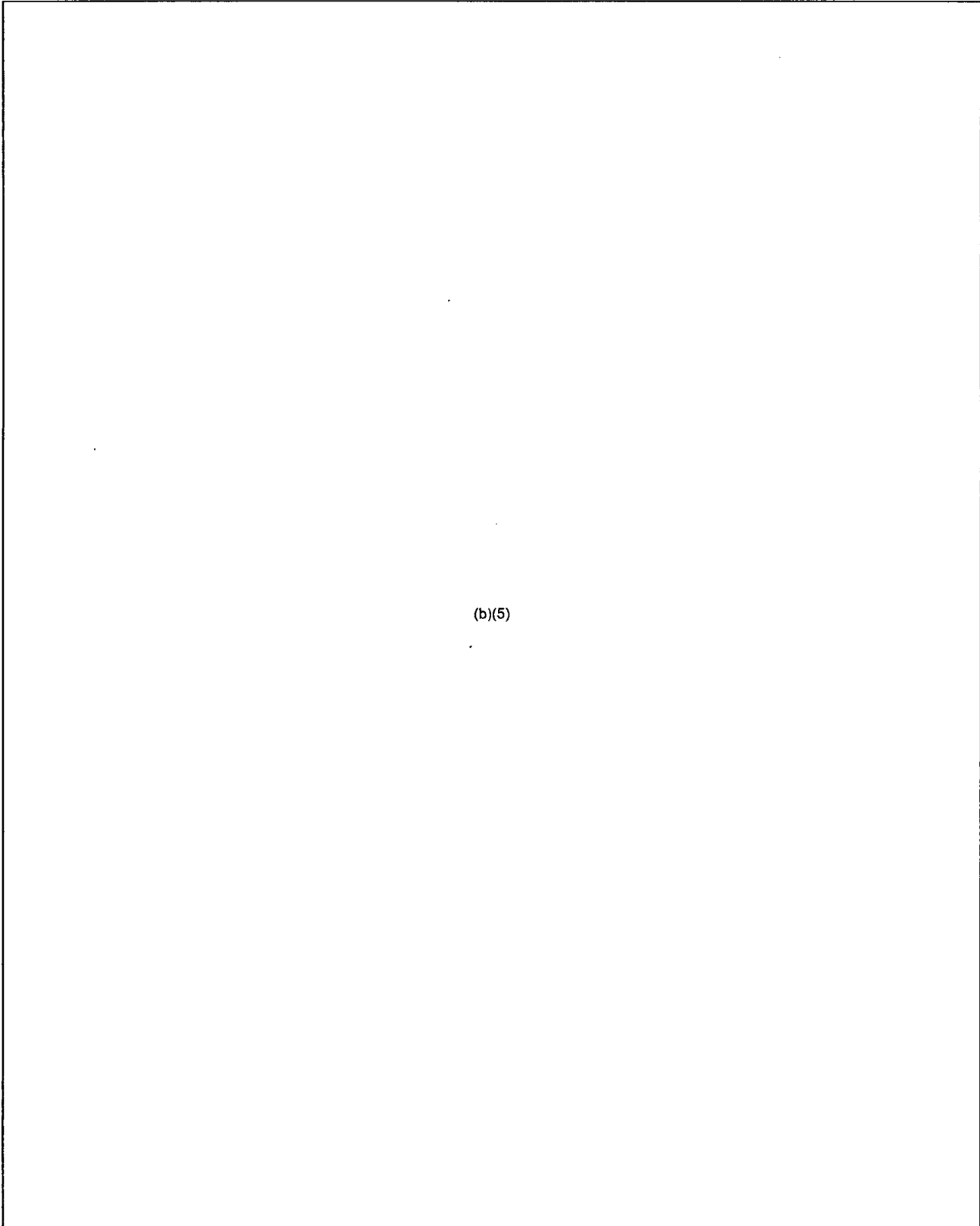
(b)(5)

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2



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(b)(5)

(b)(5)

From: Doane, Margaret
Sent: Tuesday, April 12, 2011 11:17 AM
To: Borchardt, Bill
Subject: RE: radio interview request

This number isn't working today. It went into a desk where the person speaks only Spanish. The other number doesn't work either.
What should we do? Any other numbers

From: Borchardt, Bill
Sent: Monday, April 11, 2011 10:58 AM
To: Doane, Margaret
Subject: Re: radio interview request

Can you call us on the VIC phone @ 43 21380?
Bill Borchardt
Via blackberry

From: Doane, Margaret
To: Borchardt, Bill
Sent: Mon Apr 11 10:53:42 2011
Subject: RE: radio interview request

Are we on for 7 minutes from now – tons to report!

From: Borchardt, Bill
Sent: Monday, April 11, 2011 10:52 AM
To: Doane, Margaret
Subject: Re: radio interview request

Thanks Margie. We're declining the invitation.
Bill Borchardt
Via blackberry

From: Doane, Margaret
To: Skeen, David
Cc: Borchardt, Bill
Sent: Mon Apr 11 10:46:56 2011
Subject: RE: radio interview request

Dave,

(b)(5)

Just my thoughts.
Margie

From: Skeen, David
Sent: Monday, April 11, 2011 8:31 AM
To: Doane, Margaret
Cc: Borchardt, Bill
Subject: Fw: radio interview request

Margie,

Fyi.

Should we do the interview?

(b)(5)

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Borchardt, Bill; Skeen, David; Rodriguez, Veronica
Sent: Mon Apr 11 08:00:55 2011
Subject: Re: radio interview request

Please let me know if Bill, Jack or anyone else can support this request.

Thanks

From: Hall-Godfrey, Jennifer J
To: Shaffer, Mark R
Sent: Mon Apr 11 13:48:38 2011
Subject: radio interview request

Mark –

Is anyone from the CNS del willing/available to do an interview with VRT Flemish radio (Belgium) on Wednesday afternoon or Thursday morning? They would like to broadcast a piece on Friday, would need to do the interview by Thursday morning to do the necessary editing. Questions would focus on assessment of this review meeting in general, the U.S. report, affect of Fukushima on this session, if the CNS participants have recommendations for a broader nuclear safety review, recommendations for DG Amano's June conference. In English, 15 minutes, we'd try to do it at the VIC.

If someone is available, that would be great. It's also not a large or priority audience, so I can politely decline as well.

Thanks very much.
Jennifer

*Jennifer Hall Godfrey
Public Affairs Officer
U.S. Mission to International Organizations
Vienna, Austria*

*HallGodfreyJJ@state.gov
+43-1-31339-4726
http://vienna.usmission.gov*

From: Doane, Margaret
Sent: Tuesday, April 12, 2011 10:34 AM
To: Rodriguez, Veronica
Cc: Borchardt, Bill
Subject: FW: TPs for Informal Meeting with Amano (mlm edit).docx
Attachments: TPs for Informal Meeting with Amano FINAL.docx

Importance: High

Hi Veronica,
I should have sent these to you.
Margie

From: Schwartzman, Jennifer
Sent: Tuesday, April 12, 2011 9:53 AM
To: Doane, Margaret
Subject: FW: TPs for Informal Meeting with Amano (mlm edit).docx
Importance: High

Margie,

Here is a clean copy of what Bobbi just sent.

From: Warren, Roberta
Sent: Tuesday, April 12, 2011 9:51 AM
To: Marshall, Michael; Doane, Margaret; Schwartzman, Jennifer; Coggins, Angela; Batkin, Joshua; Monninger, John
Subject: TPs for Informal Meeting with Amano (mlm edit).docx
Importance: High

This is the final version of what the Chairman wants for Mr. Borchardt to use with Amano.

Informal Meeting with Amano

(b)(5)

(b)(5)

From: Doane, Margaret
Sent: Monday, April 11, 2011 9:44 PM
To: Skeen, David; Tappert, John
Cc: Borchardt, Bill; Schwartzman, Jennifer
Subject: Professional conduct possible insert
Attachments: Insert re Professional behavior.docx

Hello,

Attached is a try at Professional conduct just to get us thinking about how it might be approached. Hopefully there is a thread that you can use. I tried an into. but without knowing where it fits in, it may be all wrong. This is the first Jen is seeing of it, so she may have some helpful edits.

Margie

(b)(5)

From: Doane, Margaret
Sent: Monday, April 11, 2011 5:28 PM
To: Foggie, Kirk; Emche, Danielle; Stahl, Eric; Smith, Brooke
Cc: Mamish, Nader
Subject: FW: HEADS UP - Possibility to have another meeting with NRC
Attachments: RE: Returning Your Phone Inquiry

FYI. Just for awareness, please don't take any action.
Margie

From: Weber, Michael
Sent: Monday, April 11, 2011 1:29 PM
To: Dyer, Jim
Cc: Doane, Margaret; Mamish, Nader; ET05 Hoc; ET01 Hoc; OST02 HOC
Subject: HEADS UP - Possibility to have another meeting with NRC

For awareness, looks like the Site Team is being requested to meet with Satoshi Sato in Japan.

From: Monninger, John
Sent: Monday, April 11, 2011 1:20 PM
To: Collins, Elmo; Casto, Chuck
Cc: Weber, Michael; Virgilio, Martin
Subject: FW: Possibility to have another meeting with NRC

Chuck, Elmo:

I received a call from Satoshi Sato this morning (in addition to the email below and attached) requesting a meeting with the NRC representatives in Japan. We were introduced to Mr. Sato-san through Joseph Donovan (U.S. Dept of State – Principal Deputy Assistant Secretary). Mr. Sato-san has concerns with how the Japanese Government and TEPCO are dealing with the events at the Fukushima Daiichi site, the emergency measures provided for the general public, and the information (or lack of) given to citizens.

I met with Mr. Sato-san on Saturday, April 2 and found him to be quite knowledgeable of the event and versed in reactor accident analysis and emergency preparedness. He is a former (retired) senior manager from General Electric. During the meeting, he mentioned past meetings he had with NISA, various Ministries, and Governmental Officials responding to the event and his frustration in working with them.

He would like to arrange a meeting with you and bring along several members of the Diet (Congressmen) to the meeting. He is proposing to meet at the U.S. Embassy. His local number in Tokyo is 090 5534 8684.

Is there anything you need from me to close the loop on this request?

Thanks,
John Monninger

From: Satoshi Sato [mailto:satoshi.sato@iacdc.com]
Sent: Thursday, April 07, 2011 6:20 PM
To: Monninger, John
Subject: Possibility to have another meeting with NRC

Mr. Monninger,

How was your trip back to the States?

Thank you for spending your busy time with me last Saturday in the US-Embassy in Tokyo. Also, thank you for all the efforts you and your team exerted for us Japanese through our government.

As you could imagine, there are too many hidden issues that have not surfaced yet but may or may not become true as a matter of time. Nearly one million people are currently left in the area severely contaminated with I-131 and Cs-137. Most people in Fukushima-City and Koriyama-City including many expected mothers and small children are enjoying their lives as before without any piece of advice to minimize the potential radiological impact from the federal or the local governments. Kids are using highly contaminated slides and swings in the playgrounds as they did before. People are sitting on the contaminated benches and having lunch on the contaminated tables. "Dirty Bomb" is the next concern for me because potential terrorists are readily accessible to large quantity of uncontrolled radioactivity without any restriction. They could easily collect and chemically concentrate it to make a "bomb". I sent my private letter to the person who directly works for the chairman of JAEC yesterday to warn this issue. However, these are just a few examples of many existing and potential issues in addition to fighting with those associated with the reactor itself.

Anyway, is it possible for me to see any NRC personnel in the US-Embassy in Tokyo one more time to talk about general topics like these? I fully understand and respect NRC's position on this politically complex matter. You are expected to support the Japanese government and I must admit I do not fully support the way they have been doing. I realize we are not standing on the same ground, although I do not have any bit of doubt that we are pursuing the same goal, namely protection of public health, safety, and environment. So, I, as a nuclear consultant familiar with your activities, will continue to respect the US-NRC no matter how you react on my request.

Best Regards,
Satoshi Sato
Senior Consultant, IAC

From: Doane, Margaret
Sent: Monday, April 11, 2011 5:21 PM
To: Dyer, Jim; Wiggins, Jim; Kelley, Corenthis; Leeds, Eric; Dean, Bill
Cc: Mamish, Nader; Dembek, Stephen
Subject: RE: FYI/ACTION - April 25, 2011, KMSC meeting, background information

Hello, I notice that we are Group 4 for this effort. Can you tell me the level of representation that you will have attend from your office? Also it looks like there is some group homework, before meeting that would be "helpful." Clarence Breskovic has been following the issue for OIP.

Thanks,
Margie

From: Weber, Michael
Sent: Monday, April 11, 2011 3:27 PM
To: Greene, Kathryn; Stewart, Sharon; Gusack, Barbara; Howard, Patrick; Moore, Scott; Lewis, Robert; Cohen, Miriam; Tracy, Glenn; Haney, Catherine; Kokajko, Lawrence; Johnson, Michael; Flanders, Scott; Leeds, Eric; Boger, Bruce; Ruland, William; Wiggins, Jim; Evans, Michele; Zimmerman, Roy; Campbell, Andy; McCrary, Cheryl; Krupnick, David; Boyce, Thomas (OIS); Schaeffer, James; Sheron, Brian; Uhle, Jennifer; Kelley, Corenthis; Williams, Barbara; Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art; Hackett, Edwin; Hawkens, Roy; Burns, Stephen; Itzkowitz, Marvin; Rothschild, Trip; Vietti-Cook, Annette; Bates, Andrew; Brenner, Eliot; Hayden, Elizabeth; Schmidt, Rebecca; Powell, Amy; Poole, Brooke; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton
Cc: Borchardt, Bill; Virgilio, Martin; Ash, Darren; Muessle, Mary; Andersen, James; Landau, Mindy; Rakovan, Lance; Hudson, Jody; Eng, Patricia; Schmitt, Ronald; Boyer, Rachel; Ellmers, Glenn
Subject: FYI/ACTION - April 25, 2011, KMSC meeting, background information

Good afternoon. I am inviting your office to participate in the upcoming April 25th Knowledge Management (KM) Steering Committee meeting. My objective is to ensure all participants come to the meeting ready for a productive exchange. I understand that everyone is busy, especially with the continuing response to the nuclear emergency in Japan. However, we need to continue to focus on KM today to accomplish the agency's mission both now and in the future. To enhance the success of our meeting on April 25, I would encourage Steering Committee members to review the agenda with their KM staff leads and gain their perspectives on the key questions listed below.

The purpose of the meeting is to reach consensus on NRC's KM program approach for the next several years. To accomplish this goal, we are planning to break into groups to discuss a set of questions which will help focus our brainstorming. These questions are

- What is the goal of NRC's KM program? What needs to be accomplished?
- What will be the benefits to our customers, the organization, NRC and you of reaching this goal?
- What is already working with the program? What are our strengths? Where are our successes?
- What specifically makes it work?
- What can we do more, better, or differently to begin moving toward our goal?

We've taken the liberty of putting together groups that we think will provide for active and balanced discussion, as follows:

Group	Representatives						
1	ACRS	EDO	NMSS	OGC	CSO	Region 3	OCAA
2	ADM	FSME	NRO	OI	SECY	Region 4	ASLBP

3	OCA	HR	OPA	RES	OE	Region 2	OIS
4	CFO	OIP	NSIR	SBCR	NRR	Region 1	

If necessary, we can arrange a short amount of time to organize/finalize group discussion results towards the start of the meeting. However it would be valuable if the groups begin their discussions on these important topics prior to the meeting, so they are more-or-less ready to “report out” on the 25th. We hope that this format will be the most efficient in helping us get to some form of agreement quicker.

I’ve also attached a good deal of background material for the meeting that you will find useful in your preparation, including the agenda and other useful references. If you have any questions about the meeting, please contact Patricia Eng, Ronald Schmitt, Jody Hudson, Lance Rakovan, or myself.

Thanks for your support.

Mike

Michael Weber
 Deputy Executive Director for Materials, Waste, Research,
 State, Tribal, and Compliance Programs
 U.S. Nuclear Regulatory Commission

301-415-1705
 Mail Stop O16E15

From: Doane, Margaret
Sent: Monday, April 11, 2011 4:57 PM
To: Burns, Stephen
Subject: RE: Welcome back -

(b)(5)

Happy to discuss in more detail.
Margie

From: Burns, Stephen
Sent: Monday, April 11, 2011 11:20 AM
To: Doane, Margaret
Subject: Welcome back -
Importance: High

Margie – a couple things:

(b)(5)

Anyway, if you have a few minutes in the next couple days, I'd like to pick your brain on this. Because the Congress is in Romania, my guess it will not have as many US attendees as certainly the Toronto Congress in 2009 or even the Brussels congress in 2007
Steve

From: Carlton Stoiber [mailto:[\(b\)\(6\)](#)]
Sent: Saturday, April 09, 2011 12:02 PM
To: Burns, Stephen
Subject: RE: INLA Congress in Romania

Hi Steve, Thanks so much for the prompt reply. I'm glad you'll be in Romania. [\(b\)\(4\)](#)

(b)(4)

(b)(4)

(b)(4)

. Let's keep in touch and best regards, Carl

From: Burns, Stephen [mailto:Stephen.Burns@nrc.gov]

Sent: Saturday, April 09, 2011 10:28 AM

To: (b)(6)

Subject: Re: INLA Congress in Romania

Carl - I do plan to attend the Romania congress and I would be happy to present or be on a panel. I had sent Bruno deM. a reply to a questionnaire earlier this week but it may not have gotten to you. I have to confess I have blanked on ideas, but I'm happy to be assigned something to do or explore and can carry it from there. I think the Congress will need to deal with Fukushima - I hadn't thought through security implications with immediate attention on the design and operational recovery issues. I will kick it around the office Monday for some ideas. In any event, you can count on me as a place holder if you need to and shortly we can come up with something.

Hope all's well with you.

Steve

From: Carlton Stoiber <(b)(6)>

To: Burns, Stephen

Sent: Sat Apr 09 08:40:23 2011

Subject: INLA Congress in Romania

Hi Steve, I apologize for putting something else on your crowded plate. I know that Fukushima is occupying everybody in the nuclear business. However, I need to ask whether you intend to participate in the October 24-28 INLA Congress in Romania and whether you have any interest in making a presentation or participating in a panel.

(b)(4)

Let me know

your thinking. Time is rather running short to put together the program. Best regards, Carl

No virus found in this message.

Checked by AVG - www.avg.com

Version: 10.0.1209 / Virus Database: 1500/3561 - Release Date: 04/09/11

From: Doane, Margaret
Sent: Monday, April 11, 2011 12:14 PM
To: 'Javier.REIG@oecd.org'
Cc: 'diane.jackson@oecd.org'
Subject: FW: LTO Forum in June

Hello Javier,
Hope all is well with you. The phone call just now didn't come through. Feel free to call me if you have time. Below is the note that I sent to Diane.
Regards,
Margie

From: Doane, Margaret
Sent: Monday, April 11, 2011 12:04 PM
To: diane.jackson@oecd.org
Subject: LTO Forum in June

Hi Diane,
The chairman would be ok with the LTO conference having more of a Fukushima focus but that would need to be coordinated with IAEA. Is that what Javier will do this week in Vienna? And, he pointed out that LTO issues will be relevant to the Fukusima Lessons Learned, which I think was your first instinct.

So, he's ok, but it needs to be well coordinated since the June 20 IAEA meeting will follow shortly after.

Margie

From: Doane, Margaret
Sent: Sunday, April 10, 2011 6:00 PM
To: Schwartzman, Jennifer
Cc: Owens, Janice; Jones, Andrea
Subject: draft cable for CNS
Attachments: Draft Cable Report for CNS.docx

Jèn,

Attached is the draft cable of the meetings that NRC had on the margins of the CNS.

(b)(5)

(b)(5)

Margie

Draft Cable Report for CNS

(b)(5)

(b)(5)

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GERMANY

On April 6, Mr. Bill Borchardt and Ms. Margaret Doane met with Gerald Hennenhofer, DG of Division of Safety of Nuclear Installations, Radiological Protection, and Nuclear

(b)(5)

(b)(5)

(b)(5)

(b)(5)

From: Doane, Margaret
Sent: Sunday, April 10, 2011 2:44 PM
To: 'ShafferMr@state.gov'
Subject: Re: REPLY: Proposed 29th CSS margin meetings

(b)(5)

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Sent: Sun Apr 10 14:38:22 2011
Subject: Re: REPLY: Proposed 29th CSS margin meetings

(b)(5)

Speaking of the June meeting, Ambassador from Brazil has called for his first "scoping meeting" to plan for the June 20 conference. This will take place this Friday at 10:00. Ambassador Davies or DCM will attend (and me, of course). However, Jack Ramsey asked if I could sit in on the RCF meeting, also on Friday. I will need to split my time, because I really need to be at the scoping meeting with the Ambassador.

----- Original Message -----

From: Doane, Margaret <Margaret.Doane@nrc.gov>
To: Shaffer, Mark R
Cc: Schwartzman, Jennifer <Jennifer.Schwartzman@nrc.gov>
Sent: Sun Apr 10 19:38:19 2011
Subject: RE: REPLY: Proposed 29th CSS margin meetings

He can offer. At this point we don't have much to say, but by then there might be something. Can't get ahead of June 20 --- what do you think?

From: Shaffer, Mark R [ShafferMr@state.gov]
Sent: Saturday, April 09, 2011 1:35 PM
To: Doane, Margaret
Subject: Fw: REPLY: Proposed 29th CSS margin meetings

What do you think?

From: Virgilio, Martin <Martin.Virgilio@nrc.gov>
To: Shaffer, Mark R; Williams, Shawn <Shawn.Williams@nrc.gov>
Cc: Schwartzman, Jennifer <Jennifer.Schwartzman@nrc.gov>
Sent: Sat Apr 09 19:33:46 2011
Subject: REPLY: Proposed 29th CSS margin meetings

Mark

Might it be worth the time to have me provide a status update on NRC's lessons learned program to that group or a broader audience at the IAEA. We will have already held our May 12th Commission meeting (the 30 day report to the Commission) and it would not take much additional effort on my part?

Marty

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Friday, April 08, 2011 1:52 AM
To: Williams, Shawn
Cc: Virgilio, Martin; Schwartzman, Jennifer
Subject: RE: Proposed 29th CSS margin meetings

Thanks Shawn. Everyone's schedule is completely crazy right now, so I think it's best that I start working on this soon, to at least put place holders on their calendars. With the Agency in full time Fukushima mode, Amano, Flory, Bychkov, Lyons and Hahn's schedules change constantly....so be advised that most of the meetings are subject to change at the last minute.

(b)(5)

(b)(5)

This email is UNCLASSIFIED.

From: Williams, Shawn [mailto:Shawn.Williams@nrc.gov]
Sent: Thursday, April 07, 2011 9:25 PM
To: Shaffer, Mark R
Cc: Virgilio, Martin; Schwartzman, Jennifer
Subject: Proposed 29th CSS margin meetings

Hi Mark,
I don't know how long in advance you would start requesting/scheduling margin meetings for Marty, but we have re-arranged our schedule to devote Monday, May 23, for margin meetings. (We arrive on Sunday May 22)

Below is my suggested margin meetings primarily based on the March 18th margin meetings that were cancelled.

(b)(5)

(b)(5)

(b)(5)

From: Williams, Shawn
Sent: Friday, March 25, 2011 10:42 AM
To: Virgilio, Martin
Cc: Shaffer, Mark R; Cianci, Sandra; Schwartzman, Jennifer
Subject: 29th CSS Margin Meetings - Not much time for Margin Meetings FW: IAEA - Commission on Safety Standards - meeting from 25 to 27 May 2011 - message #1

Marty,

I note that if we stick to our normal Sunday flight, arrive Monday morning, we have very limited time for Margin Meetings during the 29th CSS.

Sunday, May 22 – Depart for Vienna

Monday, May 23th – Arrive Vienna morning around 10-11am. Check in Hotel. Arrive VIC around 2:00pm. Margin Meetings from about 2:30-4:30pm.

Tuesday, May 24th – All day Joint Task Force Meeting. Starts at 8:30am.

Wed , May 25th – All day CSS. Starts at 10am.

Thurs., May 26th – All day CSS.

Friday, May 27th – ½ day CSS. (We could do some margin meetings Friday afternoon 1-4:30pm)

Considering the Japan Disaster, and the Joint Task Force meeting on Tuesday, you may be in high demand for Margin Meetings. We may want to consider departing Saturday afternoon, May 21, arriving Sunday. Thus, we will have all day Monday for Margin Meetings.

Possible Margin Meetings:

(b)(5)

(b)(5)

From: D.Delattre@iaea.org [mailto:D.Delattre@iaea.org]

Sent: Thursday, March 24, 2011 11:38 AM

To: agonzale@sede.arn.gov.ar; (b)(6); carl-magnus.larsson@arpansa.gov.au; Jean-Paul.Samain@wr-cs.be; lavinhas@cnen.gov.br; ramzi.jammal@cnsccsn.gc.ca; Liu.hua@bbn.cn;

(b)(6); Jukka.Laaksonen@stuk.fi; andre-claude.lacoste@asn.fr; Dieter.majer@bmu.bund.de; ssbajaj@aerb.gov.in; ilevanon@iaec.gov.il; nakamura-koichiro1@meti.go.jp; chyun@kins.re.kr; shakil@pnra.org;

(b)(6); vbezz@gan.ru; gclapiss@nnr.co.za; agurgui@csn.es; Leif.Moberg@ssm.se; mykolaichuk@hq.snrc.gov.ua; mike.weightman@hse.gsi.gov.uk; Virgilio, Martin; lcdung@most.gov.vn; peter.faross@ec.europa.eu; claire.cousins@addenbrookes.nhs.uk; rmeserve@ciw.edu; uichiro.yoshimura@oecd.org; raja.dg@aelb.gov.my

Cc: TPather@nnr.co.za; thiagan@netactive.co.za; Geoff.Williams@arpansa.gov.au; smm@gr.is; gmassera@arn.gob.ar; Geoffrey.Vaughan@hse.gsi.gov.uk; geoff_vaughan1@btopenworld.com; Fabien.FERON@asn.fr; Brach, Bill; RSwanepoel@nnr.co.za; ss.icrp@rogers.com; sci.sec@icrp.org; jean-luc.lachaume@asn.fr; Gail.Scowcroft@hse.gsi.gov.uk; marie-laure.peyrat@oecd.org; diana.heick@grs.de; dcc@csn.es; peng.jun@sepa.gov.cn; yujun@sepa.gov.cn; Williams, Shawn; Isabelle.FOREST@asn.fr; AstwoodHM@state.gov; Arnaud.ATGER@diplomatie.gouv.fr; a.atger@yahoo.fr; audree.paquette@ssi.se; Len.Creswell@hse.gsi.gov.uk; I.Sokolova@gosnadzor.ru; hschang@kins.re.kr; Lasse.Reiman@stuk.fi; fujiensc@163.com; m.demcenko@vatesi.lt; paulikas@vatesi.lt; D.Flory@iaea.org; a.nilsson@iaea.org; P.Hahn@iaea.org; J.Lyons@iaea.org; K.Mrabit@iaea.org; P.Woodhouse@iaea.org; H.Abouyehia@iaea.org; A.Al-Khatibeh@iaea.org; E.Buglova@iaea.org; G.Caruso@iaea.org; R.CZARWINSKI@iaea.org; p.colgan@iaea.org; m.gregoric@iaea.org; M.Lipar@iaea.org; M.Modro@iaea.org; S.Samaddar@iaea.org; M.Vesterlind@iaea.org; G.Andrew@iaea.org; N.Castek@iaea.org; A.Boussaha@iaea.org; J.A.Casas-Zamora@iaea.org; P.Vincze@iaea.org; A.Meghzifene@iaea.org; S.Fesenko@iaea.org; T.Colgan@iaea.org; G.Siraky@iaea.org; jim.stewart@iaea.org; M.Svab@iaea.org; g.moore@iaea.org; K.K.Varley@iaea.org; D.Delves@iaea.org; K.E.Asfaw@iaea.org; B.Jeannin@iaea.org; E.Luraschi@iaea.org; F.Klimscha@iaea.org; M.Ch.Schirfeneder@iaea.org; W.Tonhauser@iaea.org; olivier.gupta@asn.fr; M.Gasparini@iaea.org; D.Winfield@iaea.org; G.Bruno@iaea.org; C.Wong@unido.org; Y.Zhao@iaea.org; Y.Inoue@iaea.org
Subject: IAEA - Commission on Safety Standards - meeting from 25 to 27 May 2011 - message #1

Dear CSS members.

The next CSS meeting is planned from 25 to 27 May 2011 and I am pleased to inform you that the invitation letters are being prepared. For your convenience, I attach here an electronic version of the provisional agenda.

<<CSSagn29 rev3.doc>>

I have started to post last week on the CSS web site, i.e. more than two and a half months in advance to the meeting, the material for submission to you. You may find these at the following address: <http://www-ns.iaea.org/committees/css/> in the folder "CSS documents for comment". Other material for information is available in the folder "Documents provided by the Secretariat for information".

The only draft that still need to be posted is the draft safety requirement DS414 on Safety of Nuclear Power Plants: Design. It is currently under review by the NUSSC Chair in order to verify that changes proposed by the Technical Editors and agreed to by the Technical Officer don't affect the substance of the draft after its approval by the Committees. I intend to post the final draft at the latest on 29 March so as to comply with the eight weeks deadline.

Among the drafts, you will also find the draft safety requirement DS379 on Radiation Protection and Safety of Radiation Sources, the revised International BSS. You will note that on part will need to be updated taking into account the result of the ICRP deliberation on the exposure to the eye lenses. It is expected to receive the result in April 2011 and this will be mentioned to you as soon as we receive it.

You therefore have most of the material available for your review around nine weeks in advance to the meeting. I would appreciate it very much if, as agreed to be the standard practice, you also post your comments on the documents submitted for approval two weeks in advance to the meeting, i.e. by 6 May 2011. This will also allow you to see in advance the comments from other members and the responsible Technical Officers to take them into account and provide you, at the meeting, with their proposed answer for your consideration.

Please read the general information available on this CSS web page, as well as the instructions on how to use it, in particular on how to register, login and post comments on the documents submitted to you. I attach here again these instructions.

<<GuidanceontheuseoftheCSSmembersarea.doc>>

For your presentations on 8.1 (Topical discussion on the Use of Safety Standards) and 8.2 (Regulatory Issues), I would also appreciate it very much if you could send to me in advance to the meeting (also two weeks) your input for these two items, with a preference for separate papers for each of these items. I will upload them on the web site as soon as I receive them. In particular for the agenda item 8.1, I would appreciate if you could indicate recent use of IAEA safety standards for preparing regulatory documents or performing other regulatory activities.

For Mr Laaksonen, Vinhas and Virgilio who are CSS representatives at the Joint AdSec CSS task force, I confirm that the meeting of the task force will be held on 24 May 2011, starting at 8:30.

Finally, please don't hesitate to contact my Secretary Frances Klimscha for any assistance needed for the meeting arrangements. Her email address is f.klimscha@iaea.org<mailto:f.klimscha@iaea.org>. Her telephone is +43 1 26 00 22286. In this regard, I'd like to request that you confirm soon to her your participation at the next CSS meeting as well as the name of any assistant at the meeting (one assistant normally according to the Terms of Reference).

Best regards.

Dominique Delattre

Scientific Secretary of the CSS

Head, Safety Standards and Application Unit

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From: Doane, Margaret
Sent: Sunday, April 10, 2011 3:59 PM
To: Borchardt, Bill
Cc: Schwartzman, Jennifer; Shaffer, Mark; Batkin, Joshua; Coggins, Angela; Warren, Roberta; Marshall, Michael
Subject: Amano informal meeting Tues. morning in Vienna
Attachments: TPs for Informal Meeting with Amano.docx
Importance: High

Bill,

This is in response to the possible meeting with Amano on Tues morning or Weds. Below is the description from Mark on what the meeting may entail. Draft talking points are attached. I've covered the waterfront, not knowing what will come up, but with 10 people for one hour, I can't think that too much will be said by any one individual. I've copied the Chairman's office, Jen and Mark Shaffer to the note for quick feedback. The goal is to have something for you by your COB tomorrow - which is around noon in Rockville.

(b)(5)

We'll be in touch.

Margie

Informal Meeting with Amano

(b)(5)

(b)(5)

From: Doane, Margaret
Sent: Friday, April 08, 2011 11:10 AM
To: Schwartzman, Jennifer; Mamish, Nader
Cc: Owens, Janice; 'ShafferMr@state.gov'
Subject: Re: Query from Russian Embassy on IAEA High-Level Conference on Nuclear Safety

No haven't seen her for days. Should I before DOE.

Sent from an NRC Blackberry
Margaret Doane

From: Schwartzman, Jennifer
To: Doane, Margaret; Mamish, Nader
Cc: Owens, Janice; 'ShafferMr@state.gov' <ShafferMr@state.gov>
Sent: Fri Apr 08 08:56:43 2011
Subject: RE: Query from Russian Embassy on IAEA High-Level Conference on Nuclear Safety

I think that sounds like a good plan. Have you discussed with Patte Metz

From: Doane, Margaret
Sent: Friday, April 08, 2011 8:13 AM
To: Mamish, Nader; Schwartzman, Jennifer
Cc: Owens, Janice; 'ShafferMr@state.gov'
Subject: Re: Query from Russian Embassy on IAEA High-Level Conference on Nuclear Safety

Jen

(b)(5)

Any concerns?
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Mamish, Nader
To: Schwartzman, Jennifer
Cc: Doane, Margaret; Owens, Janice
Sent: Fri Apr 08 07:52:26 2011
Subject: RE: Query from Russian Embassy on IAEA High-Level Conference on Nuclear Safety

Good work! Let me know if I can help.

Thanks

From: Schwartzman, Jennifer
Sent: Thursday, April 07, 2011 4:16 PM

To: Mamish, Nader
Subject: FW: Query from Russian Embassy on IAEA High-Level Conference on Nuclear Safety

Nader,

Dropped by to see you but you were in a meeting. This is the reply from my colleague at State regarding the head of del for the Ministerial. My next move is to follow up with Mark in the morning and see if we can come up with a plan of how to get the ball rolling on the kind of discussion Dan suggests below, so that we can move closer to an official announcement. I will keep you posted.

From: Milich, Daniel S [mailto:MilichDS@state.gov]
Sent: Thursday, April 07, 2011 12:12 PM
To: Schwartzman, Jennifer
Cc: Wong, Yvette M
Subject: RE: Query from Russian Embassy on IAEA High-Level Conference on Nuclear Safety

Jen,

(b)(5)

(b)(5)

. Please let us know if there is anything we can do to help in this regard.

Thanks,
Dan

SBU
This email is UNCLASSIFIED.

From: Schwartzman, Jennifer [mailto:Jennifer.Schwartzman@nrc.gov]
Sent: Thursday, April 07, 2011 11:01 AM
To: Milich, Daniel S
Subject: RE: Query from Russian Embassy on IAEA High-Level Conference on Nuclear Safety

Dan,

My understanding is that the USG will want NRC Chairman Jaczko to head the delegation. How do we move forward on this?

From: Milich, Daniel S [mailto:MilichDS@state.gov]
Sent: Wednesday, April 06, 2011 6:15 PM
To: Fladeboe, Jan P; Stratford, Richard J; Kang, Eliot; Van Diepen, Vann H; Burkart, Alex R; Metz, Patricia J; ISN-RA-DL; (b)(6); Scheland, Mark DL; Shaffer, Mark R; Schwartzman, Jennifer; Boudreau, Robert; Adams, J Stephen
Cc: Scott, Kyle R; Price, Woodward C; Davis, Michael (Scott); Wong, Yvette M
Subject: RE: Query from Russian Embassy on IAEA High-Level Conference on Nuclear Safety

Looping in Steve, who also received a call from Aleksandr Trofimov on this issue.

(b)(5)

SBU
This email is UNCLASSIFIED.

From: Fladeboe, Jan P
Sent: Wednesday, April 06, 2011 5:36 PM
To: Stratford, Richard J; Kang, Eliot; Van Diepen, Vann H; Burkart, Alex R; Metz, Patricia J; Milich, Daniel S; ISN-RA-DL; (b)(6); Scheland, Mark DL; Shaffer, Mark R; 'Schwartzman, Jennifer'; Boudreau, Robert
Cc: Scott, Kyle R; Price, Woodward C; Davis, Michael (Scott)
Subject: Query from Russian Embassy on IAEA IAEA High-Level Conference on Nuclear Safety

Today I received a call from Aleksandr Trofimov, First Secretary at the Russian Embassy (Nuclear Affairs, Arms Control) asking about the IAEA High-Level Conference on Nuclear Safety that has been scheduled for June. He had two questions related to the conference.

(b)(4)

I responded to the second question that it was too soon to tell whether the Secretary would attend. As to the first, I offered that the USG had not determined its official position on the conference yet, but that we were of course favorably disposed towards such events relating to nuclear safety. As far as lessons learned from Fukushima, the timing may be premature for really focusing on 'lessons learned.'

I would like input to respond to Trofimov as soon as possible. Has there been any guidance on the conference at this point?

Thanks

Jan

Jan Peter Fladeboe
Office of Nuclear Energy, Safety and Security
Bureau of International Security and Nonproliferation
U.S. Department of State
Washington, DC, 20520
+1 202-647-6957
fladeboejp@state.gov

SBU

From: Doane, Margaret
Sent: Friday, April 08, 2011 7:43 AM
To: 'ShafferMr@state.gov'
Cc: Schwartzman, Jennifer
Subject: Re: credentials

Hopefully, Jen can help.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Cc: Schwartzman, Jennifer
Sent: Fri Apr 08 07:34:17 2011
Subject: RE: Draft Statement on Fukushima

I will again enlist the assistance of my State Department experts on this. I for one don't even know what "credentials" we're talking about. All I have from the USG (NRC) is a list of names and titles, Period.

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Friday, April 08, 2011 1:31 PM
To: Shaffer, Mark R
Cc: Schwartzman, Jennifer; 'k.hammoud@iaea.org'
Subject: Re: Draft Statement on Fukushima

Mark and Jen,

I just spoke with Mr Hammoud and am copyng him on this note. The issue of Ambassador's signature is settled. Its clear DCM Wood is acting on his behalf.

The issue of credentialling is still open because they cannot find the original credentials. Yesterday's submittal looked like a list of attendees. Could you please resend the credentialling documents. And then verify with Mr Hammoud that the issue is closed.

Thanks,
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: 'ShafferMr@state.gov' <ShafferMr@state.gov>

Cc: Schwartzman, Jennifer
Sent: Fri Apr 08 07:19:40 2011
Subject: Re: Draft Statement on Fukushima

Hold the press. It changed again. I'll get you a copy.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Cc: Schwartzman, Jennifer
Sent: Fri Apr 08 06:49:58 2011
Subject: RE: Draft Statement on Fukushima

(b)(5)

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Friday, April 08, 2011 12:30 PM
To: Shaffer, Mark R; Schwartzman, Jennifer
Subject: Re: Draft Statement on Fukushima
Importance: High

Mark

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Sent: Thu Apr 07 06:40:43 2011
Subject: RE: Draft Statement on Fukushima

Thanks

(b)(5)

Mark

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Thursday, April 07, 2011 12:32 PM
To: Shaffer, Mark R; Marshall, Michael
Subject: Fw: Draft Statement on Fukushima

See if this works.

Sent from an NRC Blackberry
Margaret Doane

From: S.Koenick@iaea.org <S.Koenick@iaea.org>
To: Doane, Margaret
Sent: Wed Apr 06 12:33:26 2011
Subject: Draft Statement on Fukushima

Dear Margie,

Please find attached draft statement.

BR
STeve

Stephen Koenick
Senior Safety Officer
Regulatory Activities Section
Department of Nuclear Safety and Security
International Atomic Energy Agency (IAEA)
Tel: 0043-1-2600-22608
Email: s.koenick@iaea.org
<http://www.iaea.org/>

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Draft CNS Statement on the Fukushima Daiichi Accident

(b)(4),(b)(5)

(b)(4),(b)(5)

DRAFT

From: Doane, Margaret
Sent: Friday, April 08, 2011 7:15 AM
To: 'ShafferMr@state.gov'
Cc: Skeen, David
Subject: Re: URGENT REQUEST

I gladly deliver that message.

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Cc: Skeen, David
Sent: Fri Apr 08 07:00:02 2011
Subject: URGENT REQUEST

(b)(5)

This email is UNCLASSIFIED.

From: Buck, Christopher L
Sent: Friday, April 08, 2011 12:54 PM
To: Shaffer, Mark R; Scheland, Mark DL
Subject: RE: Draft Statement on Fukushima

Mark Shaffer,

(b)(5)

Thx,
CB

SBU
This email is UNCLASSIFIED.

From: Doane, Margaret
Sent: Thursday, April 07, 2011 3:27 PM
To: Ramsey, Jack
Subject: Re: Letter from Laaksonen's "ad hoc" group

(b)(6)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Ramsey, Jack
To: Doane, Margaret
Sent: Thu Apr 07 15:22:15 2011
Subject: RE: Letter from Laaksonen's "ad hoc" group

(b)(6)



How's Vienna?

From: Doane, Margaret
Sent: Thursday, April 07, 2011 3:16 PM
To: Schwartzman, Jennifer
Cc: 'ShafferMr@state.gov'; Mamish, Nader; Ramsey, Jack; Henderson, Karen
Subject: Re: Letter from Laaksonen's "ad hoc" group

I'm not sure that's necessary since its in the reader.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Schwartzman, Jennifer
To: Doane, Margaret
Cc: 'ShafferMr@state.gov' <ShafferMr@state.gov>; Mamish, Nader; Ramsey, Jack; Henderson, Karen
Sent: Thu Apr 07 14:59:23 2011
Subject: RE: Letter from Laaksonen's "ad hoc" group

I figured you got it because you're on distribution for the reader but I didn't know if you'd had a chance to look.

(b)(5)

(b)(5)

From: Doane, Margaret
Sent: Thursday, April 07, 2011 2:58 PM
To: Schwartzman, Jennifer
Cc: 'ShafferMr@state.gov'; Mamish, Nader; Ramsey, Jack; Henderson, Karen
Subject: Re: Letter from Laaksonen's "ad hoc" group

Thanks. It came to me directly. The mailing list is odd. It came to me, Bill, and the Commissioners and not the Chairman. Maybe it went to him separately.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Schwartzman, Jennifer
To: Doane, Margaret
Cc: Shaffer, Mark R <ShafferMr@state.gov>; Mamish, Nader; Ramsey, Jack; Henderson, Karen
Sent: Thu Apr 07 14:37:10 2011
Subject: Letter from Laaksonen's "ad hoc" group

Margie,

Jukka Laaksonen has sent a letter to DG Amano on behalf of an "ad hoc" group of "nuclear safety experts" from around the world (including Harold Denton and Roger Mattson, former NRC and another American). We were cc'd and it came in via the reader. [REDACTED] (b)(4),(b)(5)

[REDACTED] (b)(4),(b)(5)

[REDACTED] (b)(5)

From: Williams, Shawn
Sent: Thursday, April 07, 2011 1:41 PM
To: Abu-Eid, Bobby; Astwood, Heather; Brach, Bill; Camper, Larry; Case, Michael; Cook, John; Cool, Donald; Diec, David; Holahan, Vincent; Lewis, Robert; Quinones, Lauren; Rini, Brett; Rosales-Cooper, Cindy; Sampson, Michele; Schwartzman, Jennifer; Weaver, Doug; Williams, Shawn; Virgilio, Martin
Subject: fyi - See Tab B FW: Thursday, April 7, 2011 E-Reader

Fyi - See Tab B. I imagine this document will be discussed at the 29th CSS and as an action to the SSC's to determine what changes are needed in IAEA Safety Standards.

From: McKelvin, Sheila
Sent: Thursday, April 07, 2011 11:07 AM
To: Commission E-Reader Distribution; E-Reader Distribution
Subject: Thursday, April 7, 2011 E-Reader

~~INTERNAL USE ONLY~~
Some of the information contained in the
Reader is not publicly available.
If there are any questions, please contact SECY.

READING FILE

INDEX

April 7, 2011

INCOMING CORRESPONDENCE

- Tab "A" 04/06/11 - Letter from Senator James Inhofe, expresses concerns stemming from the confirmation in response to inquiries that NRC has been operating in a state of emergency since the Tohoku Earthquake on March 11, 2011.**
- Tab "B" 04/06/11 - Letter from Jukka Laaksonen, provides a Statement, "NEVER AGAIN: An Essential Goal for Nuclear Safety," to express concern about the future of nuclear power...**
- Tab "C" 03/31/11 - Letter from Senator Barbara Boxer, writing to request records concerning the NRC's recent decisions on the Yucca Mountain repository.**

OUTGOING CORRESPONDENCE

None

From: Doane, Margaret
Sent: Thursday, April 07, 2011 12:07 PM
To: Schwartzman, Jennifer; Mamish, Nader; Astwood, Heather
Subject: Re: FYI re summer conferences

Thanks.

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Schwartzman, Jennifer
To: Doane, Margaret; Mamish, Nader; Astwood, Heather
Sent: Thu Apr 07 07:39:06 2011
Subject: FYI re summer conferences

Margie,

I have been in contact with NEA and ENSREG to inquire about any intended changes to the agendas for the LTO forum, the MDEP policy group mtg or the ENSREG conference that may impact the Chairman's remarks.

NEA has replied that there will be no formal changes or additions to the LTO agenda, but they expect speakers to address Japan in the context of their assigned topics. They also report that Javier is meeting with Lacoste next week to finalize the MDEP agenda and they'll get back to me with an update. Outside of Scope

Outside of Scope

ENSREG told me the conference planning committee is going to make Japan-related modifications to the agenda. This could impact what they are asking the Chairman to address. They will let me know when they work it out.

Heather and I are working together on appropriate key messages.

Jen
Sent from an NRC Blackberry

From: Doane, Margaret
Sent: Thursday, April 07, 2011 4:54 AM
To: Roger Mattson
Subject: RE: Nuclear Safety Statement on Fukushima

Dear Mr. Mattson,
I want to personally thank you for the thoughtful and insightful statement.
Kind regards,
Margie Doane

From: Roger Mattson (b)(6)
Sent: Wednesday, April 06, 2011 12:43 PM
To: CMRAPOSTOLAKIS Resource; CMRSVINICKI Resource; CMRMAGWOOD Resource; CMROSTENDORFF Resource
Cc: Borchardt, Bill; OPA1 RESOURCE; Doane, Margaret; Leeds, Eric
Subject: Nuclear Safety Statement on Fukushima

Dear NRC Commissioners and Staff:

I write to you on behalf of an ad hoc group of nuclear safety experts from various countries that for many years have been engaged in research and development, design, construction, operation, management and safety regulation of nuclear power plants. We have prepared a Statement, "NEVER AGAIN: An Essential Goal for Nuclear Safety" to express our deep concern about the future of nuclear power in view of the consequences of the earthquake and tsunami at the Fukushima-Daiichi NPP in Japan. A copy of the Statement is attached. We delivered the Statement to Mr. Yukiya Amano, Director General of IAEA on April 6 in Vienna. We offer the Statement with good intentions in the hope that it will help national nuclear safety organizations such as yours, and your international counterparts, in developing considered responses to the events at Fukushima.

Although comprehensive analysis of this tragic event is not feasible at the moment due to lack of complete data on the events that occurred, we wish to voice our opinion about severe accidents at civilian nuclear power plants and suggest additional measures to avoid them in light of the experience so far gained at Fukushima. In our Statement, we review the many advances in nuclear safety that were realized after the accidents at Three Mile Island and Chernobyl. We hoped these advances would relegate severe nuclear accidents to history. Nevertheless, another one has happened. Why?

A detailed analysis based on more data is needed to give a full answer to this question, but some preliminary observations deserve to be made now. Accordingly, our Statement describes measures that should be considered, for both operating and new nuclear power plants, by the organizations that own and operate these plants and those that oversee their safety.

We hope that our recommendations will be accepted for consideration by national authorities, the nuclear industry, the conferees at the Chernobyl-25 Conference in Kiev this month, and the conferees at the IAEA Ministerial Conference in Vienna in June.

We are always ready to share our experience and expertise to assist in developing and implementing these and other recommendations to reach our common goal - to "Never Again" experience severe accidents and, as defense in depth, to effectively respond to them should they nevertheless occur.

Sincerely, on behalf of the ad hoc group,

Roger

Roger J. Mattson, PhD

(b)(6)

From: Doane, Margaret
Sent: Thursday, April 07, 2011 4:45 AM
To: Gorn, Janet M
Cc: Charles Miller; Schwartzman, Jennifer
Subject: RE: NEA Steering Committee NRC Representative

Hi Janet. Yes, he will be attending the NEA Stear. Committee mtg. Jen is the OIP contact if you have any questions.
Regards,
Margie

From: Gorn, Janet M [GornJM@state.gov]
Sent: Tuesday, April 05, 2011 2:02 PM
To: Doane, Margaret
Subject: NEA Steering Committee NRC Representative

Hi Margie, Just a short note. Maureen Clapper sent an Email in which she indicated Charlie Miller is heading up the NRC Task Force on Fukushima and would be briefing the USOECD Ambassador and possibly a wider audience. She seemed unsure if Charlie would be attending the NEA Steering committee this month, April 28-29. I presume he is, but would appreciate confirmation. Thanks Janet

This email is UNCLASSIFIED.

From: Doane, Margaret
Sent: Thursday, April 07, 2011 4:34 AM
To: Henderson, Karen
Subject: FW: OECD Nuclear Energy Agency: Monthly News Bulletin - April 2011

Karen,

(b)(5)

Margie

From: Abrams, Charlotte
Sent: Wednesday, April 06, 2011 10:16 AM
To: Doane, Margaret
Subject: RE: OECD Nuclear Energy Agency: Monthly News Bulletin - April 2011

(b)(5)

From: Doane, Margaret
Sent: Wednesday, April 06, 2011 10:07 AM
To: Henderson, Karen; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte; Ramsey, Jack; Fragoyannis, Nancy; Owens, Janice
Subject: Re: OECD Nuclear Energy Agency: Monthly News Bulletin - April 2011

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Henderson, Karen
To: Mamish, Nader; Doane, Margaret; Dembek, Stephen; Abrams, Charlotte; Ramsey, Jack; Fragoyannis, Nancy; Owens, Janice
Sent: Wed Apr 06 07:44:55 2011
Subject: RE: OECD Nuclear Energy Agency: Monthly News Bulletin - April 2011

(b)(5)

From: Mamish, Nader
Sent: Wednesday, April 06, 2011 6:47 AM
To: Doane, Margaret; Dembek, Stephen; Abrams, Charlotte; Henderson, Karen; Ramsey, Jack; Fragoyannis, Nancy; Owens, Janice
Subject: FW: OECD Nuclear Energy Agency: Monthly News Bulletin - April 2011

FYI

From: Sheron, Brian
Sent: Tuesday, April 05, 2011 5:25 PM
To: Weber, Michael; Virgilio, Martin; Leeds, Eric
Subject: FW: OECD Nuclear Energy Agency: Monthly News Bulletin - April 2011

Looks like NEA is gearing up to study Fukushima for the foreseeable future on all fronts.

From: Flory, Shirley
Sent: Tuesday, April 05, 2011 5:14 PM
To: Dehn, Jeff; Sangimino, Donna-Marie; Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Richards, Stuart; Scott, Michael; Sheron, Brian; Uhle, Jennifer; Valentin, Andrea
Subject: FW: OECD Nuclear Energy Agency: Monthly News Bulletin - April 2011

From: OECD Nuclear Energy Agency [mailto:nea@oecd-nea.org]
Sent: Tuesday, April 05, 2011 12:32 PM
To: OECD Nuclear Energy Agency
Subject: OECD Nuclear Energy Agency: Monthly News Bulletin - April 2011

April 2011 | www.oecd-nea.org

New at the NEA

New at the NEA

Nuclear safety and regulation

Responding to the nuclear accident at Fukushima

Radiological protection

On 11 March 2011, Japan experienced a major earthquake followed by a tsunami of cataclysmic magnitude. The OECD Nuclear Energy Agency (NEA) wishes to express its condolences to all those who have been affected by this disaster. It has offered its assistance to the Japanese authorities as they address the very challenging situation at the Fukushima nuclear power plant. The NEA will be playing a key role in the evaluation of the accident and the dissemination of lessons learnt based on its various areas of expertise and its competence in addressing emergency and accident management issues. The following updates provide initial insights into some of the steps being taken by the NEA.

Nuclear law

Nuclear science

New publications

Data Bank

Nuclear safety and regulation

Flashnews activated to share accurate emergency information among nuclear regulators

On 11 March the NEA Working Group on Public Communication of Nuclear Regulatory Organisations (WGPC) activated the Flashnews system in response to the Fukushima accident. Flashnews allows for the fast exchange of information among national nuclear regulators and is used to help inform the public about nuclear events occurring around the world.

New and existing nuclear safety groups consider Fukushima implications

The NEA Committee on Nuclear Regulatory Activities (CNRA) will establish a senior-level task group to exchange information, co-ordinate activities and examine implications in relation to the Fukushima accident. Once established, members of the group will immediately begin exchanging information prior to the first meeting to be held in Paris in early May. The NEA Committee on the Safety of Nuclear Installations (CSNI) will focus on the technical aspects of safety questions raised by the accident. It will identify issues that could require in-depth evaluation by existing or new nuclear safety task groups. The Fukushima accident will be a special topic for discussion during the June CNRA and CSNI meetings and subsequent working group sessions. Please visit the NEA website for more information on nuclear safety.

Radiological protection

INEX-4 and CRPPH meetings present opportunities to discuss Fukushima

The Fukushima accident will have a significant impact on NEA work in radiological protection. A meeting of the Working party on Nuclear Emergency Matters (WPNEM) on May 3-4 that inter alia will discuss the [4th International Nuclear Emergency Exercise \(INEX-4\)](#) and the annual meeting of the [Committee on Radiation Protection and Public Health \(CRPPH\)](#) on 17-19 May will present the first international opportunities for experts in this field to discuss the preliminary feedback from emergency measures taken in Japan. A further INEX workshop is planned for 6-7 December 2011. During the May meeting, the CRPPH will submit for approval a report summarising the resources needed to implement the [International Commission on Radiological Protection \(ICRP\) Publication 60](#) recommendations into national law and an assessment of the resources that will be needed to implement the new [ICRP 103 recommendations](#). This will provide member countries with information important for implementing these new recommendations as detailed in the [International Basic Safety Standards for Protection Against Ionizing Radiation and for the Safety of Radiation Sources](#). More on NEA work in radiological protection can be found [here](#).

Nuclear law

The legal aspects of the Fukushima accident

NEA Legal Affairs will dedicate a special session of the [Nuclear Law Committee \(NLC\)](#) on 15-16 June to discuss the accident at Fukushima and how the Japanese government intends to deal with liability and compensation for the resulting nuclear damage. In its capacity as secretariat, the NEA is prepared to accommodate discussions on member country initiatives in the field of third party liability for nuclear damage, especially where signatories to the [2004 protocols](#) enhance their efforts for the entry into force of those protocols to provide better protection to potential victims of a nuclear accident. Legal questions related to the accident will be addressed in the June issue of the [Nuclear Law Bulletin](#). Furthermore, the 2011 session of the [International School of Nuclear Law](#) will provide an opportunity for the most renowned international nuclear lawyers to exchange on the impacts, lessons learnt and consequences of this accident as it relates to international nuclear law. More information on nuclear law can be found [here](#).

Nuclear science

Nuclear science groups prepared to reassess predictive capabilities

NEA nuclear science working parties and expert groups carry out technical studies in the areas of fuel cycle physics and chemistry, reactor physics, criticality safety, materials performance and radiation shielding. A key focus in each area is on the development, application and validation of modelling tools and their associated nuclear data. These tools are used by the nuclear industry in the design, operation and safety assessment of nuclear facilities including commercial nuclear power plants (NPPs). As details of the Fukushima accident emerge, and as the safety cases and emergency procedures for NPPs are reappraised, NEA nuclear science working parties and expert groups may be required to analyse new scenarios which characterise the evolution of the reactor core and the spent fuel ponds during such an event. Some of these scenarios might challenge the predictive capability of current modelling methods. In that case, new activities could be proposed and discussed by various nuclear science technical groups with the aim of targeting any shortfall in predictive capability, identifying possible methods developments to address the shortfall and providing the means to assess the accuracy of new methods developed. For more information on nuclear science, please visit the [NEA website](#).

New publications

Free publications are available [at this link](#). Paper copies may be requested by [sending an e-mail](#).
[The Nuclear Regulator's Role in Assessing Licensee Oversight of Vendor and Other Contracted Services](#)
ISBN: 978-92-64-99157-6, 38 pages.
Publications on sale can be ordered at the [OECD bookshop](#).

Data Bank

[NEA Data Bank newsletter](#)

Computer program services

[New computer programs available](#)

31-MAR-11	CSNI2017	MCCI-2 PROJECT, Melt Coolability and Concrete Interaction Phase 2 Project (Arrived)
29-MAR-11	NEA-1857	PHITS-2.24, Particle and Heavy Ion Transport code System (Tested)

28-MAR-11	<u>CCC-0295</u>	ELGATL, Calculation of Energy Spectra from Coupled Electron-Photon Slowing Down (Arrived)
22-MAR-11	<u>USCD1240</u>	VIM_NC, VIM color syntax for Nuclear Codes: NJOY, DRAGON, PARTISN, TORT, MONK, and MCNP (Tested)
16-MAR-11	<u>IAEA1287</u>	SHIELD, Monte-Carlo Code for Simulating Interaction of High Energy Hadrons with Complex Macroscopic Targets (Tested)
16-MAR-11	<u>IAEA0970</u>	STOPOW, Stopping Power of Fast Ions in Matter (Tested)
15-MAR-11	<u>USCD1238</u>	ALICE2011, Particle Spectra from HMS precompound Nucleus Decay (Tested)
07-MAR-11	<u>CCC-0767</u>	SWORD 3.2, SoftWare for Optimization of Radiation Detectors (Arrived)
03-MAR-11	<u>NEA-1856</u>	VESTA 2.0.3, Monte Carlo depletion interface code (Arrived)
03-MAR-11	<u>NEA-1210</u>	ZZ HATCHES-19, Database for radiochemical modelling (Tested)

About the NEA

NEA membership consists of 29 OECD countries. The mission of the NEA is to assist its member countries in maintaining and further developing, through international co-operation, the scientific, technological and legal bases required for a safe, environmentally friendly and economical use of nuclear energy for peaceful purposes. It provides authoritative assessments and forges common understandings on key issues, as input to government decisions on nuclear energy policy and to broader OECD policy analyses in areas such as energy and sustainable development. The information, data and analyses it provides draw on one of the best international networks of technical experts.

To unsubscribe from this bulletin, **please use this link.**

From: Doane, Margaret
Sent: Thursday, April 07, 2011 4:16 AM
To: Jones, Andrea
Subject: (b)(4)

Sweden is asking two questions. Can you pass them to the PMT.

(b)(4)

From: Doane, Margaret
Sent: Thursday, April 07, 2011 1:49 AM
To: Skeen, David
Subject: Fw: Guidance on FOIA
Attachments: Freedom of Information Act Guidance to Office of International Programs (final 4-6-2011).docx

Is this sufficient.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Henderson, Karen
To: Doane, Margaret
Cc: Mamish, Nader; Owens, Janice; Abrams, Charlotte; Dembek, Stephen; Ramsey, Jack; Fragoyannis, Nancy; Shaffer, Mark R <ShafferMr@state.gov>
Sent: Wed Apr 06 12:55:25 2011
Subject: Guidance on FOIA

Margie,

Attached please find a one-page guidance document ready for your review and approval concerning information received by NRC relating to Japan. This document has been coordinated with and approved by both OGC (Pat Hirsch, Sean Croston) and FOIA (Donna Sealing).

Once you have reviewed/approved it, do you want it provided to the staff via you in an email, wait until you return to do it at standup followed by an email with the document, have Nader do it for you this week, or done by the branch chiefs?

Is this guidance only for OIP staff, or should it be made available to the program offices via the OEDO? Do you want to also send it to the Japan Team in Tokyo and to Japan Team members who may have returned from Tokyo already?

Cheers,

Karen

*Dr. Karen Henderson
Senior Level Foreign Policy Advisor
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Tel: 301.415.0202
Fax: 301.415.2395
Email: Karen.Henderson@nrc.gov*

**Freedom of Information Act Guidance to Office of International Programs
Communications Relating to March 2011 Nuclear Events in Japan**

On March 16, 2011, the Nuclear Regulatory Commission (NRC) received a formal Freedom of Information Act (FOIA) request from the Associated Press for the following information related to the recent nuclear events in Japan:

“Pursuant to the federal Freedom of Information Act, 5 U.S.C. § 552, I request access to and copies of all communications between the NRC, the Department of Energy, GE Energy and Hitachi-GE Nuclear Energy pertaining to the Japanese nuclear incidents caused by the March 11 earthquake and tsunami. This includes problems at the following three facilities: Fukushima Dai-ichi, Fukushima Daini, and Onagawa. ...The communications should include emails, faxes, and written correspondence between the commission's chairman, its four commissioners, their staffs, and all other NRC employees to and from the Department of Energy and to and from GE Energy, Hitachi-GE Nuclear Energy, and its designated representatives.”

This paper provides guidance to the staff on responding to this FOIA. This guidance has been coordinated with the Office of the General Counsel (OGC).

Background:

NRC's agency-to-agency information exchange Arrangements obligate NRC to hold information in the same manner as the originating countries would hold the information. The exchange arrangements expressly state that NRC will comply with the commitments in the arrangement to the extent allowed under the law. Exchange arrangements are not law, as they are not ratified, like treaties. For example, FOIA trumps an exchange arrangement. If information received from a foreign counterpart under an agency-to-agency Arrangement cannot be legally withheld under FOIA, NRC would have to disclose it.

To meet NRC's obligations under the exchange Arrangements, NRC needs to be sure that it can withhold the information under FOIA. NRC should not accept any documents from its foreign counterparts to be held in confidence without making the determination that NRC can, under the law, withhold it. Otherwise NRC will be in non-compliance with its exchange Arrangements.

There are currently three FOIA requests for which this guidance is applicable. FOIA/PA-2011-0118 covers records from 3/11 to 3/16/2011. FOIA/PA-2011-0140 covers records in Office of International Programs Director Doane's in and sent boxes that relate to the same type of records. FOIA/PA-2011-0147 will also capture this type of information and the dates for this FOIA are from 3/11 to 3/24/2011.

Specific to events in Japan:

OGC has concluded that FOIA "exemption 4 will probably provide plenty of protection for whatever information obtained from Japan/TEPCO that they would like to keep confidential regarding the situation at the Fukushima reactors." Staff may receive in confidence technical information from foreign counterparts other than Japan in the course of this event, and if so, should consult with OGC on whether that information also can be withheld under FOIA. Documents should be properly marked once received and prior to disseminating.

OGC contact: Sean Croston; FOIA contact: Donna Sealing

From: Doane, Margaret
Sent: Wednesday, April 06, 2011 2:16 PM
To: Abrams, Charlotte
Subject: Re: FYI - Report

Thanks

Sent from an NRC Blackberry
Margaret Doane

From: Abrams, Charlotte
To: Emche, Danielle; Stahl, Eric; Doane, Margaret; Jones, Andrea; Mamish, Nader; Ramsey, Jack; Henderson, Karen; Fragoyannis, Nancy; Dembek, Stephen; Owens, Janice; Foggie, Kirk
Sent: Wed Apr 06 14:07:56 2011
Subject: FW: FYI - Report

FYI

Mike Weber received a call today from the Japanese Embassy regarding the leaked Times article. See his attached response.

From: Weber, Michael
Sent: Wednesday, April 06, 2011 1:34 PM
To: Abrams, Charlotte
Subject: FYI - Report

From: Weber, Michael
Sent: Wednesday, April 06, 2011 1:34 PM
To: 'takashi.inutsuka@mofa.go.jp'
Cc: Borchardt, Bill; 'seiichi.shimasaki@mofa.go.jp'
Subject: RESPONSE - Report

Greetings Mr. Inutsuka,

As I discussed with your colleague Mr. Shimasaki from the Science Section of the Japanese Embassy, we regret that there was reporting in the U.S. press today about an assessment that the NRC prepared for the response to the nuclear emergency at Fukushima-Daiichi. The NRC understood the sensitivity of the information contained in the document and protected it accordingly. If asked by the press about the assessment, we are responding with the following answer:

The March 26 document represented an interim snapshot of what NRC staff and other experts considered as possible conditions inside the damaged units at Fukushima-Daiichi; the document does not reflect our understanding of the current situation. Based on those possible conditions, the NRC staff's recommendations should be considered prudent measures; they are not offered as the only possible solutions. We shared those recommendations with the Japanese operator and regulator of the plants. We understand they are pursuing an alternative set of strategies to control the plants and ensure the safety of the people working at the plants and living nearby. We are working with our counterparts to consider these strategies and explore additional steps that could enhance safety.

We have shared this response with our team in Tokyo, who is assisting Ambassador Roos and cooperating with counterparts in Japan.

Regards

Mike

Michael Weber
Deputy Executive Director for Materials, Waste, Research,
State, Tribal, and Compliance Programs
U.S. Nuclear Regulatory Commission

301-415-1705
Mail Stop O16E15

From: Doane, Margaret
Sent: Wednesday, April 06, 2011 12:56 PM
To: Marshall, Michael
Cc: Jones, Andrea; Rodriguez, Veronica; Borchardt, Bill
Subject: Wednesday's Read Out 4-6.
Attachments: Read Out for the CNS 4-6.doc

Michael attached is Weds. Read out for the Chairman. Please treat as sensitive.
Hope you arrived home safely and thanks for all your help.
Margie

Read Out for the CNS

Weds. Apr. 6, 2011

(b)(5)

From: Doane, Margaret
Sent: Wednesday, April 06, 2011 9:45 AM
To: Skeen, David; Borchardt, Bill
Subject: Re: LaCoste

I'll be in a bilat, but Bill can get there. I'll get there as soon as possible. I would like to hear what they have to say.
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Skeen, David
To: Borchardt, Bill; Doane, Margaret
Sent: Wed Apr 06 09:14:50 2011
Subject: LaCoste

Wants to meet at 4:30. He leaves tomorrow.

Wants to discuss OEWG and G20.

Also, The CG chair for Japan wants to see you before the session starts at 6:00pm.

Thoughts?

From: Doane, Margaret
Sent: Wednesday, April 06, 2011 2:07 AM
To: Marshall, Michael
Subject: Fw: NYT story on NRC "confidential assessment" of Fukushima

Importance: High

Please show to the Chairman.
Thanks.

Sent from an NRC Blackberry
Margaret Doane

From: Stahl, Eric
To: Casto, Chuck; Collins, Elmo
Cc: Harrington, Holly; Emche, Danielle; Doane, Margaret
Sent: Wed Apr 06 00:07:43 2011
Subject: FW: NYT story on NRC "confidential assessment" of Fukushima

FYI, in case you haven't already seen this...

From: Morimura, Stephanie (TDY/PAS) [mailto:TDYMorimuraS@state.gov]
Sent: Tuesday, April 05, 2011 11:58 PM
To: Stahl, Eric; giulia.bisconti@hq.doe.gov
Cc: Quade, Christopher P; Largent, Dale A; Hoffmann, Phillip P
Subject: FW: NYT story on NRC "confidential assessment" of Fukushima
Importance: High

What's your take?

This email is UNCLASSIFIED.

From: Quade, Christopher P
Sent: Wednesday, April 06, 2011 11:48 AM
To: Zumwalt, James P; Hoffmann, Phillip P; Largent, Dale A; Phillips, Leslie M; Morimura, Stephanie (TDY/PAS); Basalla, Suzanne I; Fuller, Matthew G
Subject: NYT story on NRC "confidential assessment" of Fukushima
Importance: High

Not necessarily what we needed at this point...

April 5, 2011

U.S. Sees Array of New Threats at Japan's Nuclear Plant

By JAMES GLANZ and WILLIAM J. BROAD

United States government engineers sent to help with the crisis in Japan are warning that the troubled nuclear plant there is facing a wide array of fresh threats that could persist indefinitely, and that in some cases are expected to increase as a result of the very measures being taken to keep the plant stable, according to a confidential assessment prepared by the Nuclear Regulatory Commission.

Among the new threats that were cited in the assessment, dated March 26, are the mounting stresses placed on the containment structures as they fill with radioactive cooling water, making them more vulnerable to rupture in one of the aftershocks rattling the site after the earthquake and tsunami of March 11. The document also cites the possibility of explosions inside the containment structures due to the release of hydrogen and oxygen from seawater pumped into the reactors, and offers new details on how semimolten fuel rods and salt buildup are impeding the flow of fresh water meant to cool the nuclear cores.

In recent days, workers have grappled with several side effects of the emergency measures taken to keep nuclear fuel at the plant from overheating, including leaks of radioactive water at the site and radiation burns to workers who step into the water. The assessment, as well as interviews with officials familiar with it, points to a new panoply of complex challenges that water creates for the safety of workers and the recovery and long-term stability of the reactors.

While the assessment does not speculate on the likelihood of new explosions or damage from an aftershock, either could lead to a breach of the containment structures in one or more of the crippled reactors, the last barriers that prevent a much more serious release of radiation from the nuclear core. If the fuel continues to heat and melt because of ineffective cooling, some nuclear experts say, that could also leave a radioactive mass that could stay molten for an extended period.

The document, which was obtained by The New York Times, provides a more detailed technical assessment than Japanese officials have provided of the conundrum facing the Japanese as they struggle to prevent more fuel melting at the Fukushima Daiichi plant. But it appears to rely largely on data shared with American experts by the Japanese.

Among other problems, the document raises new questions about whether pouring water on nuclear fuel in the absence of functioning cooling systems can be sustained indefinitely. Experts have said the Japanese need to continue to keep the fuel cool for many months until the plant can be stabilized, but there is growing awareness that the risks of pumping water on the fuel present a whole new category of challenges that the nuclear industry is only beginning to comprehend.

The document also suggests that fragments or particles of nuclear fuel from spent fuel pools above the reactors were blown "up to one mile from the units," and that pieces of highly radioactive material fell between two units and had to be "bulldozed over," presumably to protect workers at the site. The ejection of nuclear material, which may have occurred during one of the earlier hydrogen explosions, may indicate more extensive damage to the extremely radioactive pools than previously disclosed.

David A. Lochbaum, a nuclear engineer who worked on the kinds of General Electric reactors used in Japan and now directs the nuclear safety project at the Union of Concerned Scientists, said that the welter of problems revealed in the document at three separate reactors made a successful outcome even more uncertain.

"I thought they were, not out of the woods, but at least at the edge of the woods," said Mr. Lochbaum, who was not involved in preparing the document. "This paints a very different picture, and suggests that things are a lot worse. They could still have more damage in a big way if some of these things don't work out for them."

The steps recommended by the nuclear commission include injecting nitrogen, an inert gas, into the containment structures in an attempt to purge them of hydrogen and oxygen, which could combine to produce explosions. The document also recommends that engineers continue adding boron to cooling water to help prevent the cores from restarting the nuclear reaction, a process known as criticality.

Even so, the engineers who prepared the document do not believe that a resumption of criticality is an immediate likelihood, Neil Wilmshurst, vice president of the nuclear sector at the Electric Power Research Institute, said when contacted about the document. "I have seen no data to suggest that there is criticality ongoing," said Mr. Wilmshurst, who was involved in the assessment.

The document was prepared for the commission's Reactor Safety Team, which is assisting the Japanese government and the Tokyo Electric Power Company, which owns the plant. It says it is based on the "most recent available data" from numerous Japanese and American organizations, including the electric power company, the Japan Atomic Industrial Forum, the United States Department of Energy, General Electric and the Electric Power Research Institute, an industry group.

The document contains detailed assessments of each of the plant's six reactors along with recommendations for action. Nuclear experts familiar with the assessment said that it was regularly updated but that over all, the March 26 version closely reflected current thinking.

The assessment provides graphic new detail on the conditions of the damaged cores in reactors 1, 2 and 3. Because slumping fuel and salt from seawater that had been used as a coolant is probably blocking circulation pathways, the water flow in No. 1 "is severely restricted and likely blocked." Inside the core itself, "there is likely no water level," the assessment says, adding that as a result, "it is difficult to determine how much cooling is getting to the fuel." Similar problems exist in No. 2 and No. 3, although the blockage is probably less severe, the assessment says.

Some of the salt may have been washed away in the past week with the switch from seawater to fresh water cooling, nuclear experts said.

A rise in the water level of the containment structures has often been depicted as a possible way to immerse and cool the fuel. The assessment, however, warns that "when flooding containment, consider the implications of water weight on seismic capability of containment."

Experts in nuclear plant design say that this warning refers to the enormous stress put on the containment structures by the rising water. The more water in the structures, the more easily a large aftershock could rupture one of them.

Margaret Harding, a former reactor designer for General Electric, warned of aftershocks and said, "If I were in the Japanese's shoes, I'd be very reluctant to have tons and tons of water sitting in a containment whose structural integrity hasn't been checked since the earthquake."

The N.R.C. document also expressed concern about the potential for a "hazardous atmosphere" in the concrete-and-steel containment structures because of the release of hydrogen and oxygen from the seawater in a highly radioactive environment.

Hydrogen explosions in the first few days of the disaster heavily damaged several reactor buildings and in one case may have damaged a containment structure. That hydrogen was produced by a mechanism involving the metal cladding of the nuclear fuel. The document urged that Japanese operators restore the ability to purge the structures of these gases and fill them with stable nitrogen gas, a capability lost after the quake and tsunami.

Nuclear experts say that radiation from the core of a reactor can split water molecules in two, releasing hydrogen. Mr. Wilmshurst said that since the March 26 document, engineers had calculated that the amount of hydrogen produced would be small. But Jay A. LaVerne, a physicist at Notre Dame, said that at least near the fuel rods, some hydrogen would in fact be produced, and could react with oxygen. "If so," Mr. LaVerne said in an interview, "you have an explosive mixture being formed near the fuel rods."

Nuclear engineers have warned in recent days that the pools outside the containment buildings that hold spent fuel rods could pose an even greater danger than the melted reactor cores. The pools, which sit atop the reactor buildings and are meant to keep spent fuel submerged in water, have lost their cooling systems.

The N.R.C. report suggests that the fuel pool of the No. 4 reactor suffered a hydrogen explosion early in the Japanese crisis and could have shed much radioactive material into the environment, what it calls "a major source term release."

Experts worry about the fuel pools because explosions have torn away their roofs and exposed their radioactive contents. By contrast, reactors have strong containment vessels that stand a better chance of bottling up radiation from a meltdown of the fuel in the reactor core.

“Even the best juggler in the world can get too many balls up in the air,” Mr. Lochbaum said of the multiplicity of problems at the plant. “They’ve got a lot of nasty things to negotiate in the future, and one missed step could make the situation much, much worse.”

Henry Fountain contributed reporting from New York, and Matthew L. Wald from Washington.

This email is UNCLASSIFIED.

From: Doane, Margaret
Sent: Tuesday, April 05, 2011 6:59 PM
To: Virgilio, Martin
Cc: Williams, Shawn
Subject: Re: Safety Security Interface

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Virgilio, Martin
To: Doane, Margaret
Cc: Williams, Shawn
Sent: Tue Apr 05 18:55:22 2011
Subject: RE: Safety Security Interface

Thanks, Margie.

(b)(5)

-----Original Message-----

From: Doane, Margaret
Sent: Tuesday, April 05, 2011 6:27 PM
To: Virgilio, Martin; Williams, Shawn; Fragoyannis, Nancy; Schwartzman, Jennifer
Subject: Safety Security Interface

(b)(5)

We'll put these conversations in a cable.

Nancy feel free to share these verbally. Please don't send it in writing. I want to write the cable and have the Chairman review it.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Tuesday, April 05, 2011 1:02 PM
To: Marshall, Michael
Cc: Doane, Margaret; Borchardt, Bill; Jones, Andrea; Rodriguez, Veronica
Subject: Read-Out for Tuesday April 5
Attachments: Read Out For April 5.docx

Michael,

Here is high-level read out from today Country Group meetings. I only covered the interesting issues. Please don't print these out (because of sensitive information contained) and just share with the Chairman via your blackberry.

Please let us know if you have further questions.

Margie

Read Out For April 5, 2011

(b)(5)

From: Doane, Margaret
Sent: Tuesday, April 05, 2011 12:48 AM
To: Rodriguez, Veronica
Cc: Grobe, Jack; Skeen, David; Tappert, John; Marshall, Michael; Borchardt, Bill
Subject: Re: Chairman's Interest for Delegation Meeting

(b)(5)

Finally, see if anything comes to mind from Michael's note below.

Michael, feel free to add any further questions.
Thanks.

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Marshall, Michael
To: Doane, Margaret
Cc: Rodriguez, Veronica; Grobe, Jack; Borchardt, Bill; Skeen, David; Tappert, John
Sent: Tue Apr 05 00:01:42 2011
Subject: Chairman's Interest for Delegation Meeting

Margie,

(b)(5)

Thanks,
Michael

From: Doane, Margaret
Sent: Monday, April 04, 2011 5:13 PM
To: Breskovic, Clarence
Subject: Re: CRS Reports sent to your kindle

Thanks Cal.

Sent from an NRC Blackberry
Margaret Doane

From: Breskovic, Clarence
To: Doane, Margaret
Sent: Mon Apr 04 11:07:16 2011
Subject: CRS Reports sent to your kindle

Margie,

I sent some CRS reports to your Kindle. They deal with the tsunami in Japan and related issues, including nuclear. The reports do not contain any late breaking news but I think they serve well as semi-official summaries of how the US sees the situation and what the US is doing about it. Might come in handy at cocktail parties, etc.

Cheers,
Cal

From: Doane, Margaret
Sent: Monday, April 04, 2011 9:47 AM
To: Mamish, Nader
Subject: Re: OIP Support for the Japan Team

I haven't had a chance. He just arrived and has a very full day. When is the last opportunity to give an answer. I think you might have to talk with Chuck anyway now that I think about it. If I were the Chairman I'd ask, "what does Chuck think."
Your views.
Margie
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Mamish, Nader
To: Doane, Margaret
Sent: Mon Apr 04 07:48:14 2011
Subject: OIP Support for the Japan Team

Hey Margie:

I have seen lots of e-mails from you so I trust it's an action filled trip thus far. Hope you're having a great time
...

(b)(5)

Please advise. Thanks

From: Doane, Margaret
Sent: Monday, April 04, 2011 4:22 AM
To: Henderson, Karen; Ramsey, Jack; Schwartzman, Jennifer
Subject: Re: TIME SENSITIVE -- meeting paper for g20 energy meeting in abu dhabi

Forgot to say, at end of note see earlier note. I said "NRC in Headquarters may also have edits."
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Doane, Margaret
To: Henderson, Karen; Ramsey, Jack; Schwartzman, Jennifer
Sent: Mon Apr 04 04:20:08 2011
Subject: Fw: TIME SENSITIVE -- meeting paper for g20 energy meeting in abu dhabi

Ignore earlier note. I sent the following after edits by Mark Scheland and conferring with Patty Metz. I also copied both on the note. [REDACTED] (b)(5)

[REDACTED] (b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Doane, Margaret
To: 'Peter.Lyons@Nuclear.Energy.gov' <Peter.Lyons@Nuclear.Energy.gov>; 'Jonathan.Elkind@hq.doe.gov' <Jonathan.Elkind@hq.doe.gov>; [REDACTED] (b)(6)

[REDACTED] (b)(6);

'Edward.McGinnis@Nuclear.Energy.Gov' <Edward.McGinnis@Nuclear.Energy.Gov>; 'cekutarf@state.gov' <cekutarf@state.gov>; 'MorningstarRL@state.gov' <MorningstarRL@state.gov>; Ramsey, Jack;
'Joyce.Connery@hq.doe.gov' <Joyce.Connery@hq.doe.gov>; 'Beth.Urbanas@do.treas.gov' <Beth.Urbanas@do.treas.gov>; 'jmesa@cftc.gov' <jmesa@cftc.gov>
Cc: 'David.Sandalow@hq.doe.gov' <David.Sandalow@hq.doe.gov>; 'Matthew.Kallman@hq.doe.gov' <Matthew.Kallman@hq.doe.gov>; 'Christie.Ulman@hq.doe.gov' <Christie.Ulman@hq.doe.gov>; 'Rick.Duke@hq.doe.gov' <Rick.Duke@hq.doe.gov>; 'Robert.Boudreau@nuclear.energy.gov' <Robert.Boudreau@nuclear.energy.gov>; 'MICHELLE.SCOTT@nuclear.energy.gov' <MICHELLE.SCOTT@nuclear.energy.gov>; 'Andrea.Lockwood@hq.doe.gov' <Andrea.Lockwood@hq.doe.gov>; 'Phyllis.Yoshida@hq.doe.gov' <Phyllis.Yoshida@hq.doe.gov>; 'ShafferMr@state.gov' <ShafferMr@state.gov>; 'SchelandMDL@state.gov' <SchelandMDL@state.gov>; 'MetzPJ@state.gov' <MetzPJ@state.gov>

Sent: Mon Apr 04 04:14:30 2011
Subject: Re: TIME SENSITIVE -- meeting paper for g20 energy meeting in abu dhabi

Jonathon

(b)(5)

Possible Talking points:

(b)(5)

I'm in Vienna at the review meeting. I have cleared this with State/ISN, Patty Metz and UNVIE, Mark Scheland.

NRC staff in DC may have additional comments.

I'll send contact information in the next note.

Margie Doane

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Lyons, Peter <Peter.Lyons@Nuclear.Energy.gov>

To: Elkind, Jonathan <Jonathan.Elkind@hq.doe.gov>; (b)(6)

(b)(6)

McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; 'cekutarf@state.gov' <cekutarf@state.gov>;
'MorningstarRL@state.gov' <MorningstarRL@state.gov>; Doane, Margaret; Ramsey, Jack; Connery, Joyce
<Joyce.Connery@hq.doe.gov>; 'Beth.Urbanas@do.treas.gov' <Beth.Urbanas@do.treas.gov>; 'jmesa@cftc.gov'
<jmesa@cftc.gov>

Cc: Sandalow, David <David.Sandalow@hq.doe.gov>; Kallman, Matthew <Matthew.Kallman@hq.doe.gov>; Ulman, Christie <Christie.Ulman@hq.doe.gov>; Duke, Rick <Rick.Duke@hq.doe.gov>; Boudreau, Robert <Robert.Boudreau@nuclear.energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Yoshida, Phyllis <Phyllis.Yoshida@hq.doe.gov>
Sent: Sun Apr 03 16:45:28 2011
Subject: Re: TIME SENSITIVE -- meeting paper for g20 energy meeting in abu dhabi

Jonathan
I've boarded for my first flight and just scanned this. Looked fine in a quick read.

(b)(5)

Pete

----- Original Message -----

From: Elkind, Jonathan
To: 'Sweetnam, Glen E.' <(b)(6)>; 'Goodman, Matthew P.' <(b)(6)>; Lyons, Peter; McGinnis, Edward; 'Cekuta, Robert F' <cekutarf@state.gov>; 'Morningstar, Richard L' <MorningstarRL@state.gov>; Margaret Doane (Margaret.Doane@nrc.gov) <Margaret.Doane@nrc.gov>; Jack Ramsey (jack.ramsey@nrc.gov) <jack.ramsey@nrc.gov>; Connery, Joyce; Beth.Urbanas@do.treas.gov <Beth.Urbanas@do.treas.gov>; Jacqueline Mesa (jmesa@cftc.gov) <jmesa@cftc.gov>
Cc: Sandalow, David; Kallman, Matthew; Ulman, Christie; Duke, Rick; Boudreau, Robert; Scott, Michelle; Lockwood, Andrea; Yoshida, Phyllis
Sent: Sun Apr 03 15:30:10 2011
Subject: TIME SENSITIVE -- meeting paper for g20 energy meeting in abu dhabi

SENSITIVE BUT UNCLASSIFIED

Colleagues:

I attach here for your review the meeting paper for David Sandalow's use on Tuesday, April 5, in the G20 senior officials meeting on energy in Abu Dhabi.

PLEASE PROVIDE your concurrence or comments to me by noon tomorrow, Monday, April 4. I apologize for the extremely short fuse on this request, but we are all reacting as best we can under the very short timelines dictated by the lateness of the French proposal to convene Tuesday's meeting.

I will be extra-appreciative to colleagues at State and NSC if they can ensure that all the right colleagues in their respective organizations do in fact receive it. Thanks to those who provided input for this draft.

Best regards,

Jon

Jonathan Elkind
Principal Deputy Assistant Secretary

Office of Policy and International Affairs U.S. Department of Energy
ofc: +1-202-586-5800
jonathan.elkind@hq.doe.gov

Full Name: Andrea Jones
Last Name: Jones
First Name: Andrea
Job Title: INTERNATIONAL RELATIONS OFFICER
Department: INT'L COOP & ASSISTANCE BRANCH
Company: IP/ICAB

Business: 301-415-2309

Pager:

(b)(6)

Other:

E-mail: Jones, Andrea

E-mail Display As: Andrea Jones (Jones, Andrea)

From: Doane, Margaret
Sent: Monday, April 04, 2011 2:31 AM
To: 'nakagawa@ruby.famille.ne.jp'
Subject: Re: This is Nakagawa of JNES. Give me your favor.

Nakagawa san. I'm here in Vienna. I am very sorry for all that has happened. I hope you will agree with me that this is the beginning of a very long journey.

We will do what we can today, but there will be much more to do in the future.

I will write back. Until then, I will be thinking of you.

Margie san

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: 中川|air <nakagawa@ruby.famille.ne.jp>
To: Doane, Margaret
Sent: Sun Apr 03 22:18:27 2011
Subject: This is Nakagawa of JNES. Give me your favor.

Maggie san

(b)(4)

M.Nakagawa
Office of International Programs
JNES

From: Doane, Margaret
Sent: Sunday, April 03, 2011 9:44 PM
To: Ramsey, Jack; Henderson, Karen; Schwartzman, Jennifer
Subject: Urgent for G20

Importance: High

Could you please review the following, especially TPs. Jen and Jack know its late, but any help getting to Karen would be extremely useful. Send it for me if you can tonight (feel free to delete or edit)and just adjust to show you've seen it and add Mark Scheland, Mark Shaffer and Patty Metz or Jan. Otherwise I'll send in morning.

Thanks.

Margie

Jonathon

(b)(5)

Possible Talking points:

(b)(5)

I'm in Vienna at the review meeting. I have not had a chance to clear my suggestions with State/ISN or UNVIE, as its the middle of the night. I have been closely coordinating our activities, this reflects those conversations and I copied UNVIE and will get this discussion to all in the am.

Also NRC staff in DC may have additional comments.

I'll send contact information in the next note.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Sunday, April 03, 2011 3:31 PM
To: Henderson, Karen; Ramsey, Jack; Fragoyannis, Nancy
Cc: Mamish, Nader; 'ShafferMr@state.gov'; Schwartzman, Jennifer
Subject: IAEA June Meeting

I just had a lengthy conversation with Mark Scheland at UNVIE that Mark Shaffer set up. It was very illuminating. Exactly as Mark Shaffer has been reporting but good to get it from UNVIE first-hand.

(b)(5)

Discussion topics of phone call:

(b)(5)

With these considerations please recommend a path forward.

Thanks,

Margie

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Sunday, April 03, 2011 3:11 PM
To: Evans, Michele
Subject: Re: ET Response Advisor Position in Ops Center

Hello Michele,
I'm very willing to help. I'm on international travel right now. I'm planning to take a few days off the week you are looking for but let me know what you need.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Evans, Michele
To: Holonich, Joseph; Layton, Michael; Weaver, Doug; Mamish, Nader; Persinko, Andrew
Cc: McDermott, Brian; McGinty, Tim; Ordaz, Vonna; Doane, Margaret; Camper, Larry; Boyce, Thomas (OIS)
Sent: Sun Apr 03 12:07:37 2011
Subject: ET Response Advisor Position in Ops Center

Your name was brought to my attention as someone who had the capability to fill the ET Response Advisor Position in the Ops Center. We have been staffing about 30 positions in the Ops Center since March 11 to respond to the events in Japan and support our site team which has been deployed to Japan since about that time.

At this time, we are trying to staff the center through April 17. We have had some turnover in this particular position due to various reassignments of SES managers to other offices, and two of these reassignments involve relocations which complicated the situation even more.

All that said, I am reaching out to you to see if you are interested in serving in this position in the Ops center for a shift over several consecutive days, during the week of April 10. We would provide some training as needed prior to you assuming a shift. Once you serve in this capacity, you may be asked to stand watch during later weeks in April, if a decision is made to continue to staff the Ops center beyond April 17. The current watch bill is included below for your information.

Please let me know if you can support this need by COB, Monday, April 4.

Thanks.

Michele Evans
Acting Deputy OD, NSIR

Week of April 3-9

ET Response Advisor			
Sat-Sun	4/2-4/3	11pm - 7am	Brian McDermott
Sun	3-Apr	7am - 3pm	Tim McGinty

Sun	3-Apr	3pm-11pm	Chris Miller	
Sun-Mon	4/3-4/4	11pm - 7am	Brian McDermott	
Mon	4-Apr	7am - 3pm	Tim McGinty	
Mon	4-Apr	3pm-11pm	Joe Giitter	
Mon-Tue	4/4-4/5	11pm - 7am	Brian McDermott	
Tue	5-Apr	7am - 3pm	Tim McGinty	
Tue	5-Apr	3pm-11pm	Joe Giitter	
Tue-Wed	4/5-4/6	11pm - 7am	Scott Morris	Changed from Bri 9"
Wed	6-Apr	7am - 3pm	Tim McGinty	
Wed	6-Apr	3pm-11pm	Joe Giitter	
Wed-Thur	4/6-4/7	11pm - 7am	Scott Morris	
Thur	7-Apr	7am - 3pm	Tim McGinty	
Thur	7-Apr	3pm-11pm	Joe Giitter	
Thur-Fri	4/7-4/8	11pm - 7am	Scott Morris	Changed from Ch 9"
Fri	8-Apr	7am - 3pm		
Fri	8-Apr	3pm-11pm	Tom Blount	
Fri-Sat	4/8-4/9	11pm-7am	Mark Thaggard	
Sat	9-Apr	7am - 3pm	Chris Miller	
Sat	9-Apr	3pm-11pm	Tom Blount	
Sat-Sun	4/9-4/10	11pm - 7am	Mark Thaggard	

Week of April 10-16

ET Response Advisor			
Sat-Sun	4/9-4/10	11pm - 7am	Mark Thaggard
Sun	10-Apr	7am - 3pm	
Sun	10-Apr	3pm-11pm	Tom Blount
Sun-Mon	4/10-4/11	11pm - 7am	Mark Thaggard
Mon	11-Apr	7am - 3pm	
Mon	11-Apr	3pm-11pm	
Mon-Tue	4/11-12/5	11pm - 7am	
Tue	12-Apr	7am - 3pm	
Tue	12-Apr	3pm-11pm	
Tue-Wed	4/12-13/6	11pm - 7am	
Wed	13-Apr	7am - 3pm	
Wed	13-Apr	3pm-11pm	
Wed-Thur	4/13-4/14	11pm - 7am	
Thur	14-Apr	7am - 3pm	
Thur	14-Apr	3pm-11pm	
Thur-Fri	4/14-4/15	11pm - 7am	
Fri	15-Apr	7am - 3pm	
Fri	15-Apr	3pm-11pm	

Fri-Sat	4/15-4/16	11pm-7am	
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From: Doane, Margaret
Sent: Sunday, April 03, 2011 2:19 AM
To: 'ShafferMr@state.gov'
Subject: Re: press in vienna

(b)(5)

Thanks.

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Sent: Sun Apr 03 01:53:21 2011
Subject: Re: press in vienna

(b)(5)

From: Doane, Margaret <Margaret.Doane@nrc.gov>
To: Shaffer, Mark R
Sent: Sun Apr 03 07:51:29 2011
Subject: Re: press in vienna

(b)(6)

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret; Brenner, Eliot
Cc: Jones, Andrea
Sent: Sun Apr 03 01:33:23 2011
Subject: Re: press in vienna

(b)(5)

(b)(5)

From: Doane, Margaret <Margaret.Doane@nrc.gov>
To: Brenner, Eliot <Eliot.Brenner@nrc.gov>
Cc: Shaffer, Mark R; Jones, Andrea <Andrea.Jones2@nrc.gov>
Sent: Sun Apr 03 06:04:33 2011
Subject: Fw: press in vienna

Eliot

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: 'ShafferMr@state.gov' <ShafferMr@state.gov>
Cc: Jones, Andrea
Sent: Sat Apr 02 23:28:39 2011
Subject: Fw: press in vienna

Mark

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Brenner, Eliot
To: Jaczko, Gregory
Cc: Batkin, Joshua; Loyd, Susan; Marshall, Michael
Sent: Sat Apr 02 15:56:10 2011
Subject: press in vienna

(b)(5)

Eliot

From: Doane, Margaret
Sent: Sunday, April 03, 2011 1:24 AM
To: Borchardt, Bill
Cc: Skeen, David; Grobe, Jack; Tappert, John; Jones, Andrea; 'ShafferMr@state.gov'
Subject: Meeting with VM today

Hi Bill. Just wanted to give TPs and hints for meeting this morning.

(b)(5)

Hope these are helpful.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Saturday, April 02, 2011 11:31 AM
To: Borchardt, Bill
Subject: Fw: FYI: NEA/CNRA task group on Fukushima Implications

Is this what you were talking about?
Margie

(b)(6)

Sent from an NRC Blackberry
Margaret Doane

From: Schwartzman, Jennifer
To: Doane, Margaret
Sent: Sat Apr 02 11:08:57 2011
Subject: Re: FYI: NEA/CNRA task group on Fukushima Implications

(b)(6)

Sent from an NRC Blackberry

From: Doane, Margaret
To: Schwartzman, Jennifer
Sent: Sat Apr 02 10:44:44 2011
Subject: Re: FYI: NEA/CNRA task group on Fukushima Implications

(b)(6)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Schwartzman, Jennifer
To: Doane, Margaret
Sent: Sat Apr 02 10:11:21 2011
Subject: Re: FYI: NEA/CNRA task group on Fukushima Implications

(b)(6)

I'm here to help so throw things my way.
Sent from an NRC Blackberry

(b)(6)

From: Doane, Margaret
To: Schwartzman, Jennifer; Mamish, Nader

Sent: Sat Apr 02 09:33:29 2011
Subject: Re: FYI: NEA/CNRA task group on Fukushima Implications

Jen. The requests need to come from Mark to OIP as you suggest. The task force should be kept informed, probably they only need summaries. We do need staff level support of the task force, so thanks for volunteering. Let me talk with Nader. Not sure what level and time commitment, etc.

Sent from an NRC Blackberry
Margaret Doane

From: Schwartzman, Jennifer
To: Doane, Margaret; Mamish, Nader
Cc: ShafferMr@state.gov <ShafferMr@state.gov>
Sent: Sat Apr 02 08:43:12 2011
Subject: RE: FYI: NEA/CNRA task group on Fukushima Implications

We received the first request from IAEA for NRC staff support for a consultancy meeting to prepare for the ministerial meeting. It came directly to Vonna Ordaz because it had something to do with spent fuel, but NMSS quickly determined it was topically more in NRR's area. They informed OIP right away and told the IAEA contact that all requests had to come through the US Mission. Mark and I are going to work to make sure that all IAEA requests that come in re. Japan are coming via a streamlined process and not directly to staff. [REDACTED] (b)(5)

[REDACTED] (b)(5)

I would be happy to help with the task force if a staff-level person is needed/appropriate.

From: Doane, Margaret
Sent: Saturday, April 02, 2011 4:41 AM
To: Schwartzman, Jennifer; Mamish, Nader
Subject: Re: FYI: NEA/CNRA task group on Fukushima Implications

I'm somehow affiliated with the task force. Was invited to the first meeting. There will be an international piece. We need a rep.

Sent from an NRC Blackberry
Margaret Doane

From: Schwartzman, Jennifer
To: Doane, Margaret
Sent: Fri Apr 01 17:19:22 2011
Subject: Re: FYI: NEA/CNRA task group on Fukushima Implications

Do you know if the new NRC task force will be coordinating NRC staff participation in int'l efforts? If so, does it make sense to have an OIP liaison to the task force?

Sent from an NRC Blackberry

From: Doane, Margaret
To: Schwartzman, Jennifer; 'ShafferMr@state.gov' <ShafferMr@state.gov>
Sent: Fri Apr 01 17:07:31 2011
Subject: Fw: FYI: NEA/CNRA task group on Fukushima Implications

This is to feed into IAEA lessons learned.

Sent from an NRC Blackberry
Margaret Doane

From: Leeds, Eric
To: Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Galloway, Melanie; Giitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Quay, Theodore; Ruland, William; Skeen, David
Cc: Doane, Margaret; Miller, Charles; Virgilio, Martin; Grobe, Jack; Boger, Bruce; Mamish, Nader; Sheron, Brian; Uhle, Jennifer; Wiggins, Jim; Dean, Bill; Satorius, Mark; McCree, Victor; Howell, Art; Johnson, Michael; Flanders, Scott
Sent: Fri Apr 01 12:33:56 2011
Subject: FYI: NEA/CNRA task group on Fukushima Implications

Please see below. NRR plans to place an SES manager on the NEA task force.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]
Sent: Friday, April 01, 2011 11:40 AM
Subject: NEA/CNRA task group on Fukushima Implications

Sent on behalf of Mike Weightman

Dear CNRA members –

As our Japanese colleagues continue to work tirelessly towards stabilising the Fukushima nuclear power plants, the safety of all nuclear power plants world-wide have come under close scrutiny. Regulatory bodies have been called upon to affirm the safety of its power plants, regardless of type. Earlier this week, the CNRA Chair and Vice-chairs discussed the issue to seek ways to combine efforts internationally for improved effectiveness and efficiency.

The CNRA is establishing a senior-level task group to coordinate the response of CNRA activities, exchange information on national activities, and look at generic implications of the event. The task group will be asked to identify areas that in-depth evaluation would benefit on an international level and can be undertaken by CNRA or CSNI working groups, or by new task groups to address gaps that are not within the scope of an existing working group. The group would be also chartered to identify short-term and long-term activities.

Countries generally with operating nuclear power plants are invited to nominate a senior-level delegate to the group. It would be expected that the group could commence work through the immediate sharing of national activities, and follow-on shortly with a group meeting. Task group delegates should be available for a meeting in Paris in early May. Please send your nominations to Javier.Reig@oecd.org and Diane.Jackson@oecd.org

Additionally, in order for all CNRA members stay informed of the task group and National activities, documents for exchange will be posted on a NEA password protected member website. It will be accessible to CNRA, CSNI, and working group members. If you could send your documents regarding your country's plans for plant reviews and the timelines to Diane Jackson, she will make sure they are posted on the website.

Best regards,
Mike Weightman, CNRA Chair

From: Doane, Margaret
Sent: Saturday, April 02, 2011 10:47 AM
To: Marshall, Michael; [redacted (b)(6)]; Schwartzman, Jennifer; Loyd, Susan; Brenner, Eliot; Jones, Andrea; Warren, Roberta; Coggins, Angela; Batkin, Joshua
Cc: Jones, Andrea
Subject: Re: Revised Remarks for Monday Night

If you send us the changes once you land we can print them at the Vic. We'll have a computer and printer set up.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Marshall, Michael
To: Doane, Margaret; [redacted (b)(6)]; Schwartzman, Jennifer; Loyd, Susan; Brenner, Eliot; Jones, Andrea; Warren, Roberta; Coggins, Angela; Batkin, Joshua
Sent: Sat Apr 02 10:20:45 2011
Subject: RE: Revised Remarks for Monday Night

Margie and et. al.,

Will do. The latest that I will be able to print out the two versions of the remarks is 11:00 am EDT on Sunday.

In case the Chairman wants changes after he reads the revised remarks, can someone confirm that the hotel has a business center that I can use to make changes and print out new copies. According to the current schedule we will have about an hour at the hotel prior to heading off to the VIC.

Michael

From: Doane, Margaret
Sent: Saturday, April 02, 2011 9:41 AM
To: [redacted (b)(6)]; Schwartzman, Jennifer; Loyd, Susan; Brenner, Eliot; Marshall, Michael; Jones, Andrea; Warren, Roberta; Coggins, Angela; Batkin, Joshua
Subject: Re: Revised Remarks for Monday Night

Fantastic. Thanks. Michael, can I confirm that you can print out a version for the Chairman for the plane, if he wants.

[redacted (b)(5)]

Eliot feel free to elaborate.

Thanks
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Susan Loyd (b)(6)

To: Schwartzman, Jennifer; Loyd, Susan; Brenner, Eliot; Doane, Margaret; Marshall, Michael; Jones, Andrea; Warren, Roberta; Coggins, Angela; Batkin, Joshua

Sent: Sat Apr 02 09:33:03 2011

Subject: Revised Remarks for Monday Night

Here are clean copies of the text and bullets. (b)(5)

(b)(5). I will leave that up to you to discuss with the Chairman and decide if you want to delete it or not. There are several sentences that are involved. This is about 11 minutes, at his usual speaking speed.

Eliot - I will copy the new text version into the body of an email and send to you. Thanks everyone!

Susan

From: Doane, Margaret
Sent: Saturday, April 02, 2011 9:29 AM
To: Abrams, Charlotte
Subject: Re: Call from Congressman Moran's office on Metsamor

Yes. Only focused on US activities, lessons learned, etc.

Sent from an NRC Blackberry
Margaret Doane

From: Abrams, Charlotte
To: Doane, Margaret
Sent: Sat Apr 02 05:12:09 2011
Subject: Re: Call from Congressman Moran's office on Metsamor

Did you see email I forwarded from Danielle regarding talk at cns on Japan NPP? Is chairman going to give a presentation along with Mr Nakamura?

Sent from my nrc blackberry. Charlotte Abrams 3014152933

From: Doane, Margaret
To: Ramsey, Jack; Decker, David; Hayden, Elizabeth
Cc: Mamish, Nader; Abrams, Charlotte; Henderson, Karen
Sent: Sat Apr 02 04:30:23 2011
Subject: Re: Call from Congressman Moran's office on Metsamor

As long as its publicly available I have no concerns.

Sent from an NRC Blackberry
Margaret Doane

From: Ramsey, Jack
To: Decker, David; Hayden, Elizabeth
Cc: Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Henderson, Karen
Sent: Fri Apr 01 17:28:22 2011
Subject: FW: Call from Congressman Moran's office on Metsamor

Beth/David,

Please see below. This is clearly in response to Japan.

Do you see any problem if I provide State with the info they've requested? It's all publicly available info, so I wouldn't expect that our info would create any new or significant issues.

Jack

From: Farrelly, Joseph T [mailto:FarrellyJT@state.gov]
Sent: Friday, April 01, 2011 4:45 PM
To: Ramsey, Jack
Subject: Call from Congressman Moran's office on Metsamor

Jack,

Hope you have been well.

I received a request from a staffer in Congressman Moran's office. They have received a call from National Geographic about efforts to ensure the safety of the Metsamor nuclear plant in Armenia. Apparently Nat Geo wants to do some kind of program/study on Soviet era nuclear plants.

Moran's office would like information on what the USG has done to support safety and security at Metsamor. They were particularly interested in multilateral efforts, specifically with the EU, that USG has engaged in. Do you have a list of the programs and funding USG has dedicated to supporting Metsamor in Armenia? In particular, they are interested in any multilateral efforts USG has engaged with the EU and others on this.

I know that State has funded programs, but I understand that DOE and NRC have executed them. I have touched base with DOE on this as well.

Thanks for any information you have.

Best,

Joe

Joseph Farrelly

Armenia Desk

Office of Caucasus Affairs and Regional Conflicts

Bureau of European and Eurasian Affairs

U.S. Department of State

Email: FarrellyJT@state.gov

Office: 1-202-647-6576

Cell: (b)(6)

From: Doane, Margaret
Sent: Saturday, April 02, 2011 4:54 AM
To: Mamish, Nader; Ramsey, Jack
Subject: Re: Longer Term Actions

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Mamish, Nader
To: Ramsey, Jack; Doane, Margaret; Abrams, Charlotte; Dembek, Stephen; Owens, Janice; Henderson, Karen; Foggie, Kirk
Sent: Fri Apr 01 15:41:27 2011
Subject: RE: Longer Term Actions

I am generally good with your proposal, but have a few thoughts for your consideration:

-
-
-
-

(b)(5)

(b)(5)

Thanks

From: Ramsey, Jack
Sent: Friday, April 01, 2011 12:50 PM
To: Mamish, Nader; Doane, Margaret; Abrams, Charlotte; Dembek, Stephen; Owens, Janice; Henderson, Karen; Foggie, Kirk
Subject: FW: Longer Term Actions

All,

I'd like to offer an unsolicited suggestion regarding process for long-term interaction with our Japanese counterparts. Specifically, I'd like to suggest that requests from the Japanese (as evidenced below) be worked into the longstanding communications processes that OIP has with our Japanese regulatory counterparts (NISA/JNES), vice having the OEDO establish a separate, parallel process.

Please let me know your thoughts on this ASAP. If there is support for my idea, I'd suggest we issue a followup e-mail that says something like:

Upon reflection, OIP would suggest that requests from Japanese entities be provided to OIP. OIP will then utilize existing communication processes with our Japanese regulatory counterparts (NISA/JNES) to confirm, understand and prioritize the incoming requests. OIP will then work, as appropriate, with other NRC offices in responding to these requests.

There are several reason for suggesting this. The principal one involves our common desire to have our long-term involvement with our Japanese counterparts on Fukushima become part of our ongoing relationship with NISA/JNES (i.e., have an ongoing technical dialogue that is out of the world spotlight). This will also lessen the workload our the NRC team in Tokyo, and will help facilitate efforts to rightsize (downsize) the NRC presence in Tokyo.

Jack

From: Mamish, Nader
Sent: Friday, April 01, 2011 12:06 PM
To: Muessle, Mary; Brown, Milton
Cc: Doane, Margaret; Dyer, Jim; Abrams, Charlotte; Dembek, Stephen; Owens, Janice; Ramsey, Jack; Henderson, Karen; Fragoyannis, Nancy
Subject: FW: Longer Term Actions

FYI – I'm working w/Jim Andersen to process requests from GOJ (OPS center currently has a handful of them). To the extent requests involve minimal resource expenditures (e.g., requests for published NUREGs), OEDO will farm them out to the offices. However, if the requests involve significant resource or OIP implications, OEDO will consult with OIP and we may need a process/mtg for dealing with ...

From: McDermott, Brian
Sent: Friday, April 01, 2011 9:50 AM
To: Andersen, James; Mamish, Nader
Cc: RidsEdoMailCenter Resource; Jaegers, Cathy; Clayton, Kathleen; Muessle, Mary; Evans, Michele; Morris, Scott
Subject: RE: Longer Term Actions

Jim,

My understanding is that after we spoke, the approach we discussed was put on hold by OEDO staff.

Currently, requests are building up in the Ops Center tracker or are being informally taken on by various program offices. I do not believe this is an efficient or effective way to handle the Situation. Unfortunately, I've been standing watch and have not been able to tackle this issue.

We should anticipate additional requests for technical assistance from the GOJ. We absolutely need a process to validate these requests (are they within NRC capabilities, are they better addressed by another agency, can they be supported by the program offices, etc..). Given the potential resource implications, I believe the Offices should be part of the vetting process. Once a GOJ request is validated for NRC action, we need to identify the appropriate lead Office and track to completion.

I believe that this type of activity would best be lead by OIP or OEDO. Any assistance you can provide in establishing a longer term solution would be greatly appreciated.

Brian

From: Andersen, James
Sent: Thursday, March 24, 2011 8:55 AM
To: McDermott, Brian; OST02 HOC
Cc: RidsEdoMailCenter Resource; Jaegers, Cathy; Clayton, Kathleen; Muessle, Mary
Subject: Longer Term Actions

Brian, as we discussed, if there are longer term actions we need to track from the EDO's office, please send the request, recommended lead office, if coordination is needed with other offices, deliverable (memo, e-mail, etc), and due date to the folks on this e-mail. Thanks.

Jim A.

From: Doane, Margaret
Sent: Saturday, April 02, 2011 4:40 AM
To: Ramsey, Jack
Cc: Mamish, Nader
Subject: Fw: G-20 ministers to convene "perhaps in May in Paris"

This gets it back in the IAEA box, I think.

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: LIA02 Hoc
Cc: Schwartzman, Jennifer; Doane, Margaret
Sent: Sat Apr 02 03:08:00 2011
Subject: G-20 ministers to convene "perhaps in May in Paris"

With regard to the item in the transition report about President Sarkozy's statements that have quoted in the press, below are a couple of paragraphs that summarize the discussion of this issue during yesterday's IAEA Technical Briefing:

During the question and answer part of the briefing, Japanese Ambassador Nakane offered a summary report on French President Sarkozy's March 31 meeting with Prime Minister Kan, noting that Sarkozy had said he would like to discuss the maintenance of strict international nuclear safety standards at an international conference "to be convened in the near future."

French Ambassador Mangin, reading from a prepared text, reported on the initiative of President Sarkozy in his national capacity and as G-20 chairman, to "mobilize the G-20 community to help Japan." President Sarkozy has stressed, as he had at the April 2010 Paris conference on access to nuclear power, the need for "harmonization of nuclear safety standards." The French Ambassador said her President proposed that G-20 ministers convene "perhaps in May in Paris" for a discussion that would contribute to the conceptualization of the IAEA high-level conference to be prepared in Vienna under chairmanship of Brazil's Ambassador to the IAEA. France noted that Japanese PM Kan agreed to the French proposal.

This email is UNCLASSIFIED.

From: Doane, Margaret
Sent: Saturday, April 02, 2011 4:38 AM
To: Stahl, Eric
Cc: Mamish, Nader; Abrams, Charlotte; Emche, Danielle
Subject: Re: Meeting with Jamet (ASN)

Thanks Eric. Flight was very nice. On time, no surprises. Hope you are well.
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Stahl, Eric
To: Doane, Margaret
Cc: Mamish, Nader; Abrams, Charlotte; Emche, Danielle
Sent: Sat Apr 02 03:44:14 2011
Subject: Meeting with Jamet (ASN)

Hi Margie -

As you know, Chuck met with ASN Commissioner Jamet over lunch today. Chuck was quite busy this afternoon, so I didn't get a full read-out of the meeting, but he said it went fine. He said from his point-of-view, (b)(5)

(b)(5)

Once I get a more full read-out from Chuck, I'll fill you in.

Hope your flight was good!

Thanks,
Eric

From: Doane, Margaret
Sent: Friday, April 01, 2011 5:00 PM
To: Ramsey, Jack
Cc: Mamish, Nader
Subject: Fw: NE Input for Japan Meeting at AD (4-1-11)(from MG and MS to SG) (2).doc
Attachments: Country Responses to Japan Situation.xlsx; NE Input for Japan Meeting at AD (4-1-11) (from MG and MS to SG) (2).doc

Importance: High

Did this get to you guys.

Sent from an NRC Blackberry
Margaret Doane

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
To: Doane, Margaret; Henderson, Karen
Cc: Lyons, Peter <Peter.Lyons@Nuclear.Energy.gov>
Sent: Fri Apr 01 15:07:20 2011
Subject: NE Input for Japan Meeting at AD (4-1-11)(from MG and MS to SG) (2).doc

Margie and Karen,

I know you've been on the email traffic for this Abu Dhabi Side meeting on April 4th, my office has pulled together TPs and backgrounders for David Sandalow, PI 1to use for this meeting. I would very much appreciate if your office would review the information. My sincerest apologies for getting this to you so late. PI asked for point and background information on the Fukushima incident, Role of the IAEA and WANO and other industry. I am also sending a NE matrix, we've been tracking country responses to the Fukushima incident.

Again I appreciate your review.

We appreciate your reviewing and sending your comments and input to Michelle Scott and to me.

Thank you,

(b)(4)

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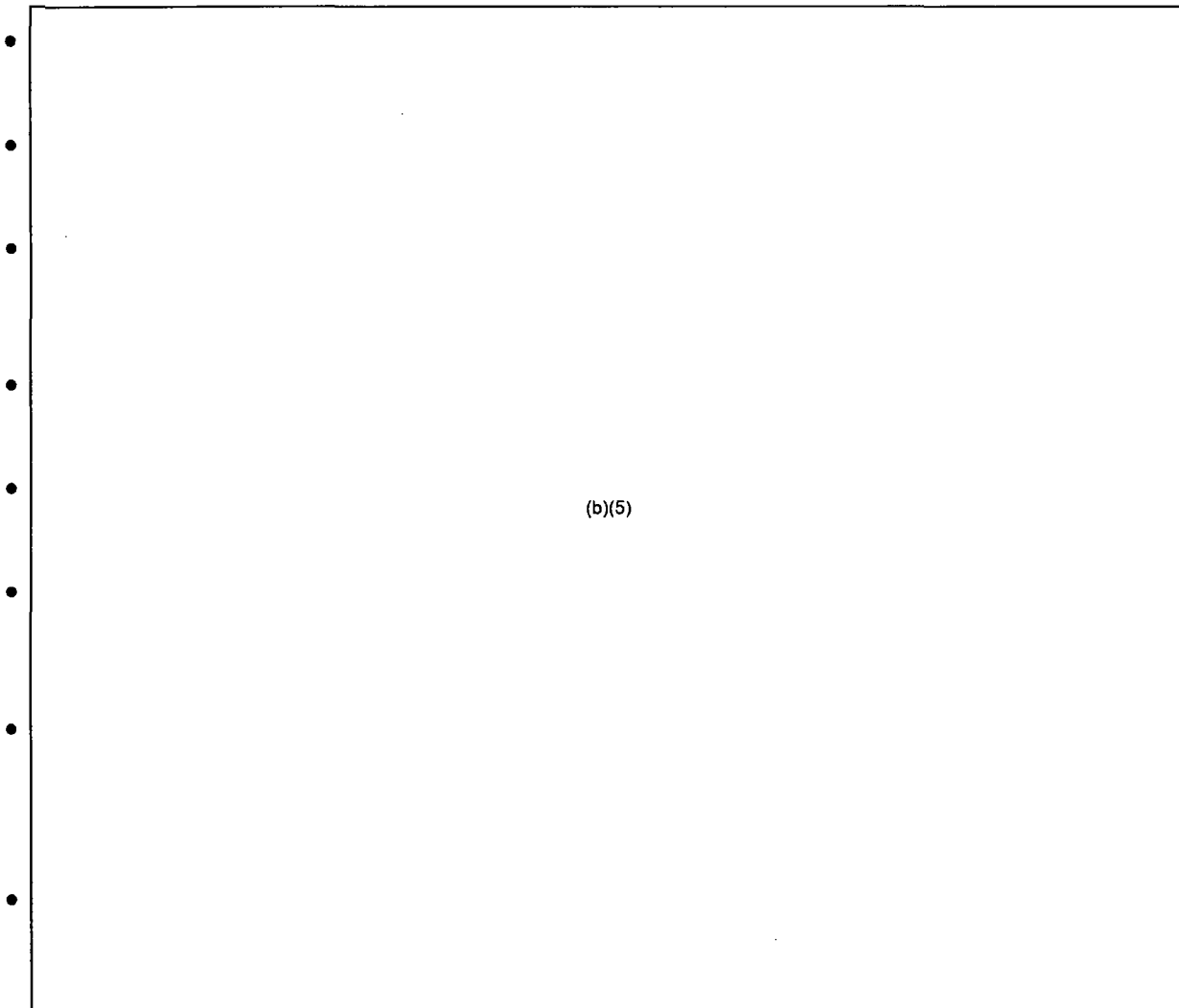
(b)(4)

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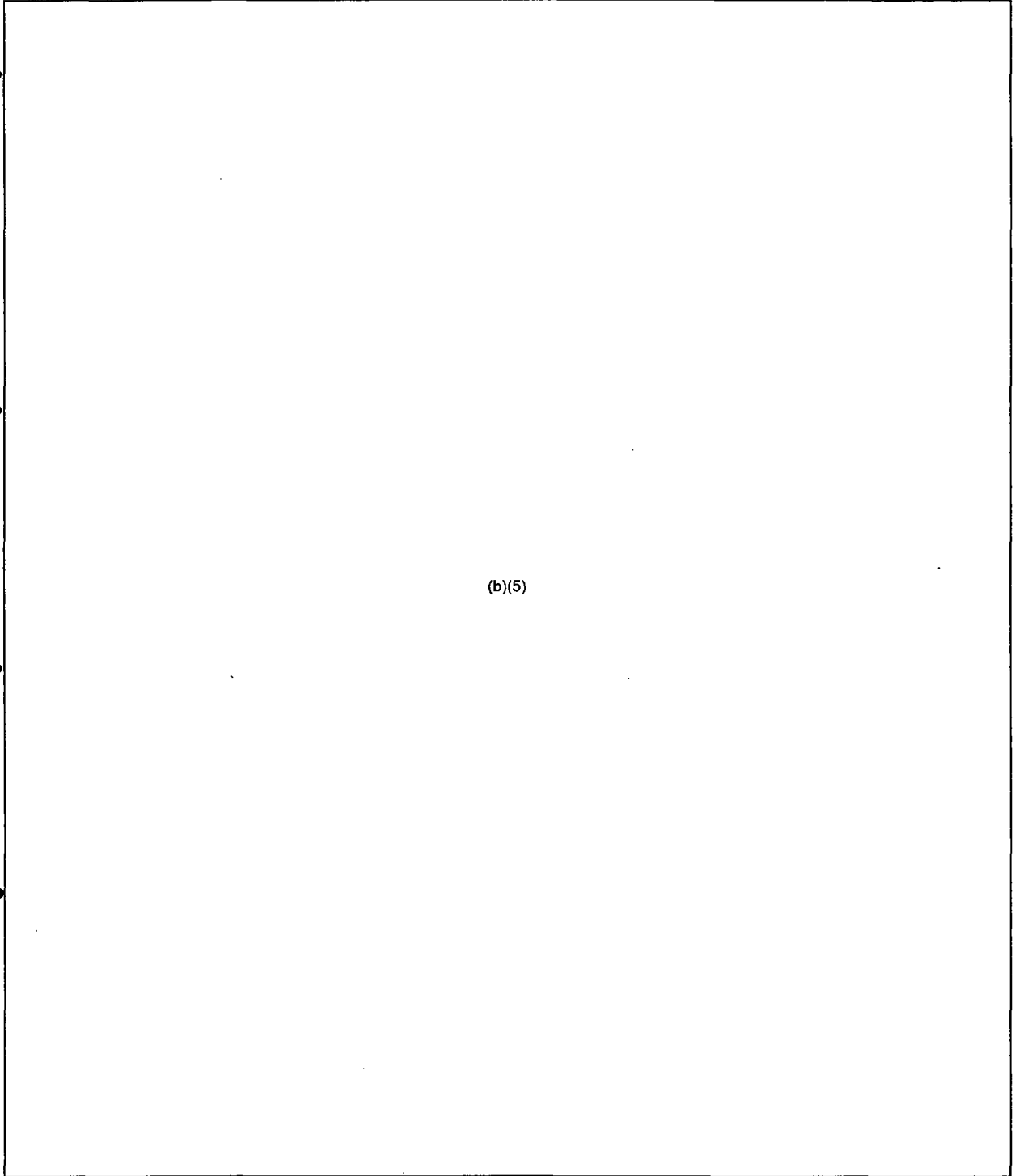
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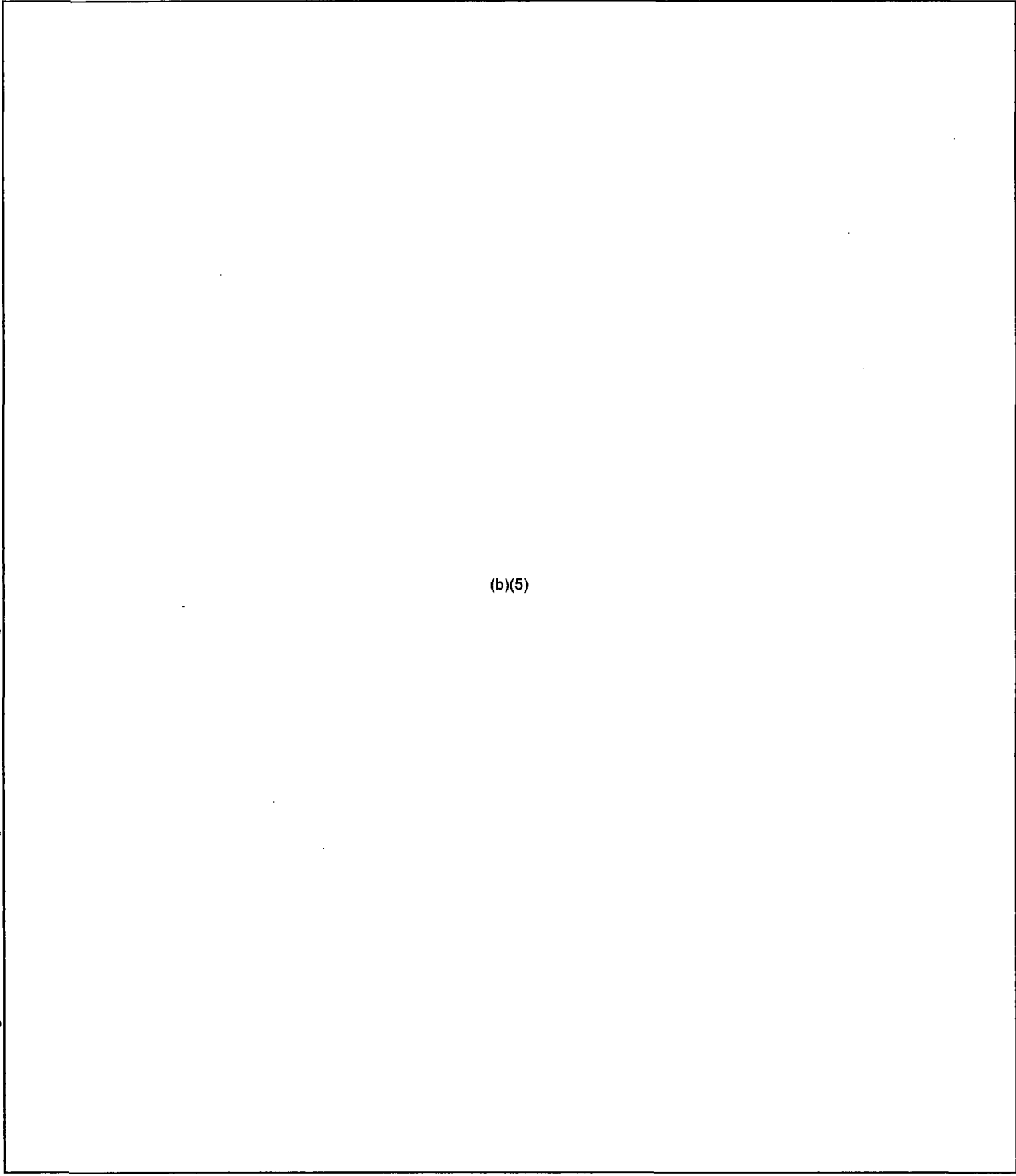
Talking Points on the Fukushima Incident



Additional Background:



(b)(5)



(b)(5)

Fukushima Dai-ichi Reactor Incident

Background

On March 11, 2011, Japan suffered from one of the largest earthquakes in recorded history. There are currently 55 reactors located in Japan and with the exception of three, all those reactors were either shut down for maintenance or executed emergency procedures to safely stop operations. This included the reactors at the Onogawa plant which is located even closer to the epicenter of the earthquake than the Fukushima Daiichi plant. We have been tracking the status of these reactors and the other Japanese nuclear facilities and have detected no problems other than those at Fukushima Daiichi.

There are various detailed chronologies of the events at the Fukushima Daiichi plant available on the Internet. This includes one prepared by the Organization for Economic Cooperation and Development Nuclear Energy Agency (OECD-NEA) that can be found at: <http://www.oecd-nea.org/press/2011/NEWS-04.html>. A high level account of the event includes:

- At Friday, March 11, 2011 at 2:36 JDT a 9.0 Richter scale earthquake occurred off shore about 100 miles from the reactors. At that time, three of the six reactors were in operation and one shutdown safely. The northern Japan power grid was lost, but the emergency diesel generators started and provided the needed cooling capabilities.
- Fifty five minutes later at 3:41 JDT a greater than 7 meter tsunami arrived at the plant. The facility was designed for only a 6.5 meter tsunami. As a result, the emergency diesel generators were damaged and failed. This left the plant with only steam turbines to pump cooling water. These turbines were dependant on battery power to control their operation. Over time these batteries failed and the ability to cool reactor Units 1, 2 and 3 was lost.
- As a result of the loss of cooling the water in the reactors boiled off and the level dropped so that the nuclear cores were uncovered. This allowed the metal clad fuel pins to melt. It also allowed the zirconium metal to interact with the steam to generate hydrogen. This hydrogen escaped from the reactor vessel and caused explosions to three of the reactor buildings.
- A different problem occurred in reactor Unit 4. The nuclear core of this reactor was removed to the fuel storage pool at the time of the earthquake and tsunami. It is assumed that the pool was damaged during the event and that cooling water escaped uncovering fuel, leading to a hydrogen explosion. The precise events at Unit 4 are still being investigated.
- Since the initiation of the accident at Fukushima Daiichi, the workers at the plant have used a wide variety of methods to cool the reactors and the fuel storage pools. This includes the use of salt water and fire trucks. They have also used cranes and concrete pumping trucks. Over time off-site power has been restored and freshwater has replaced seawater for cooling the reactor vessels in Units 1, 2 and 3.

- Since the nuclear fuel continues to emit heat, active cooling will be required for several months. For this reason the DOE is working with the NRC and other agencies to provide technical assistance as needed. This will include developing alternatives for longer term cooling solutions as well as ways for the plants to capture, store, and eventually treat the radioactive waste water.

The current situation and outlook for the Fukushima Dai-ichi reactors

Presently, Units 1, 2 and 3 have off-site electricity restored and are using electric pumps to add fresh water to the reactors. It is important that the switch to freshwater was made to prevent excessive salt build up inside the reactor. Unfortunately, efforts to restore the plant have been hampered by the discovery of high radioactivity in water inside and around the turbine buildings. It is a high priority to clean or remove this water so that workers can safely move around the plant and restore the plant systems. The long term outlook for Units 1, 2, and 3 are almost certainly permanent closure. The other Units may be returned to service after appropriate modifications are made to protect against a tsunami of this size. The situation is stabilizing somewhat, but faces continuing significant challenges and will warrant close monitoring for months to come.

Other international and country response to the Fukushima Dai-ichi

The NE Response Team is not officially tracking what other countries or international groups are doing to assist the Japanese. However, we do know informally:

- The IAEA is assisting with radiation monitoring and providing advice to the Japanese on evacuations
- The French company AREVA is in Japan to provide direct technical assistance
- Representatives from Russia have visited Japan to offer assistance (we do not know if it has been accepted)
- Germany is standing by to provide robotics technologies

What will the U.S. do in response to the Fukushima incident?

The U.S response in regard to its fleet of reactors is not determined at this time. That response will be formulated by the NRC. We are certain that their response will address issues involving:

- Review of the seismic threat to the current fleet and the ability of the reactors to withstand the predicted events
- Review of the safety of long term storage of spent fuel in pools inside the reactor buildings
- Plans to respond to severe (beyond design basis) accidents

Role of the IAEA following the Earthquake and Tsunami in Japan

Talking Points:

- The U.S. supports the actions of the IAEA in disseminating information to its Member States and the public on the current status of the nuclear power plants, including almost daily technical briefings followed by press conferences.
- We support the role of the IAEA in coordinating the bilateral assistance that is being provided to Japan.
- We look to the IAEA to take a lead role in coordinating meetings to share information, lessons learned and best practices in order to strengthen nuclear safety.
- As we conduct a comprehensive review of the safety of our nuclear plants in the United States in light of the natural disaster that unfolded in Japan, we will do this in concert with the international community, and we want to fully utilize the many existing fora, and particularly the IEAE, for doing so.

Background:

Immediately after the incidents occurred at the Fukushima nuclear power plants, the IAEA has provided information to its Member States and the public on the current status of the nuclear power plants, including almost daily technical briefings followed by press conferences. The Member States and the public are looking to IAEA expertise for information and analysis, because of the IAEA's role in developing nuclear safety guidance for its Member States, serving as the depositary for conventions on nuclear safety and emergency response, working with other international organizations (such as World Meteorological Organization (WMO), World Health Organization (WHO), Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO), and Food and Agriculture Organization (FAO)), and coordinating assistance provided to the Japanese. IAEA Director General Amano has participated in the technical briefings on the situations at the Fukushima Dai-ichi and Fukushima Dai-ni nuclear power stations and the problems that the plants are confronting. The IAEA has taken the following actions regarding the nuclear incidents in Japan:

- The Incident and Emergency Centre continuously monitors the status of the nuclear power plants in Japan following the earthquake and provides updates regarding their status
- Director General Amano and technical experts visited Japan to make a technical assessment and talk with the Japanese government and Japanese officials

- Prepare and distribute technical documents on the damage sustained by the nuclear power plants
- Maintain a daily Fukushima Nuclear Accident Update Log
- Convene conferences and meetings to assess the current situation at Japan's nuclear power plants, lessons learned, and follow-up actions for strengthening nuclear safety and emergency response. These include the following:
 - A special session of the Board of Governors met on 21 March 2011 to discuss the DG Amano's report on his visit to Japan from 17 to 19 March 2011, related to the accident at the Fukushima Daiichi nuclear power plant
 - SAGNE IV-3 Meeting (13-15 April 2011) which intends to focus on the Implications of the Fukushima Accident for National Nuclear Power Programme Development (all SAGNE members)
 - Conference on Nuclear Safety (20-24 June 2011) which will bring together Ministers from Member States to kick-off the conference to focus on political impact of the Japanese power plant crisis, the technical aspects and initial lessons learned from the Fukushima accident. DG Amano said that the conference would provide a "preliminary assessment and a preliminary review of the safety standard in light of this accident...It is not just backward-looking but it should be forward-looking." Brazilian Ambassador to the IAEA Antonio Guerreiro has been designated as the lead to coordinate Member State inputs into determining the agenda, structure, and intended outcomes.

Role of WANO and/or Other Industry Groupings

The U.S. government departments and agencies working on the Fukushima response are coordinating with several industry associations and individual companies (in addition to the Japanese government agencies), on a very broad range of technical issues, as listed below. Industry associations, as well as Tokyo Electric Power Company (TEPCO) and General Electric Hitachi (GEH) provide a lot of important technical data, while the other companies provide assistance in Japan:

Industry Associations providing assistance in Fukushima response efforts

- Federation of Electric Power Companies of Japan
- Institute of Nuclear Power Operations (INPO) – has sent a staff member to Japan
- The Japan Atomic Industrial Forum, Inc. (JAIF), non-profit organization incorporated under the auspices of the nuclear energy industry, has been providing updates to U.S. government agencies on its actions to assist with the Fukushima situation.
- Nuclear Energy Institute (NEI) is providing reactor data to the U.S. government agencies working on the response.
- World Association of Nuclear Operators (WANO)
- Electric Power Research Institute (EPRI)

Industry that is providing assistance in Fukushima response efforts

- Babcock and Wilcox
- Bechtel
- General Electric Hitachi (GEH)
- The Shaw Group
- Tokyo Electric Power Company (TEPCO) – the plant owner and operator
- Toshiba
- Westinghouse

From: Doane, Margaret
Sent: Friday, April 01, 2011 4:51 PM
To: Mamish, Nader
Subject: Fw: QUERY - CSIS INVITATION: Nuclear Safety After Fukushima

I'll leave it to you.

Sent from an NRC Blackberry
Margaret Doane

From: Weber, Michael
To: Doane, Margaret; Mamish, Nader
Cc: LIA06 Hoc; LIA08 Hoc; Brenner, Eliot; Schmidt, Rebecca; Boger, Bruce; Thaggard, Mark; Muessle, Mary; Andersen, James; Leeds, Eric; Haney, Catherine; Sheron, Brian; Johnson, Michael; Virgilio, Martin
Sent: Fri Apr 01 16:48:47 2011
Subject: QUERY - CSIS INVITATION: Nuclear Safety After Fukushima

Does OIP want to take the lead in participating in this seminar for NRC? Someone should attend, listen, and share highlights back here to the rest of our team. If OIP cannot support, please advise.

From: CSIS Proliferation Prevention Program [mailto:tspitzer-hobeika@csis.org]
Sent: Friday, April 01, 2011 4:11 PM
To: Weber, Michael
Subject: CSIS INVITATION: Nuclear Safety After Fukushima

To ensure receipt of our email, please add us to your address book.

x

The CSIS Proliferation Prevention Program invites you to a timely discussion on:

Nuclear Safety After Fukushima

The March 11, 2011 earthquake and tsunami have had a devastating effect on Japan. The impact has been magnified by the crisis at the Fukushima Daiichi nuclear power plant, where efforts continue to contain radiation from damaged reactors and spent fuel pools. Beyond the inevitable questions posed by the media in the midst of the crisis, national and international authorities will be reviewing safety regulations and their implementation. The U.S. Congress has already held several hearings and the International Atomic Energy Agency Director Yukiya Amano has called for a nuclear

safety summit in June.

The CSIS Proliferation Prevention Program is pleased to bring two expert panels together to analyze the current situation and its impact on U.S. and international nuclear safety.

Thursday, April 7, 2011
from 2:00pm to 5:00pm
B1 Conference Center
CSIS, 1800 K Street NW, Washington, DC 20006

Speakers:

Opening Remarks: Dr. John Hamre, President, Center for Strategic and International Studies

Moderator: Ms. Sharon Squassoni, Director, CSIS Proliferation Prevention Program

2:15-3:45: National Responses

Mr. Alex Flint, Senior Vice President for Governmental Affairs, Nuclear Energy Institute (Invited)

Ms. Ellen Vancko, Nuclear Energy and Climate Change Project Manager, Union of Concerned Scientists

Mr. Mark Holt, Specialist in Energy Policy, Congressional Research Service

3:45-5:00: International Responses

Dr. Olli Heinonen, Senior Fellow, Belfer Center for Science and International Affairs, Harvard Kennedy School

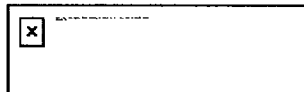
Mr. Carlton Stoiber, Chair of the Nuclear Security Working Group, International Nuclear Law Association

Ms. Carol Kessler, Chair of the Nonproliferation and National Security Department, Brookhaven National Laboratory

Please **RSVP** to Ms. Tamara Spitzer-Hobeika at tspitzer-hobeika@csis.org or 202.775.3239.



To unsubscribe from all CSIS emails, please [click here](#).



From: Doane, Margaret
Sent: Friday, April 01, 2011 1:29 PM
To: Henderson, Karen
Subject: Re: Additional information for Chairman's call with DOE Deputy Secretary Poneman

(b)(5)

Sent from an NRC Blackberry
Margaret Doane

From: Henderson, Karen
To: Pace, Patti
Cc: Marshall, Michael; Mamish, Nader; Doane, Margaret
Sent: Fri Apr 01 13:17:45 2011
Subject: Additional information for Chairman's call with DOE Deputy Secretary Poneman

Patti,

Can you please make the Chairman aware of the following for his phone call this afternoon with the Deputy Secretary of Energy. The information is derived from a phone call I had with Deputy Secretary Poneman's special assistant.

(b)(5)

Thank you.

Cheers,

Karen

*Dr. Karen Henderson
Senior Level Foreign Policy Advisor
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Tel: 301.415.0202
Fax: 301.415.2395
Email: Karen.Henderson@nrc.gov*

From: Doane, Margaret
Sent: Friday, April 01, 2011 9:47 AM
To: 'ShafferMr@state.gov'
Subject: Fw: Administrator Li's letter to Mr. Borchardt
Attachments: Administer's letter.doc

Letter back to Li Ganji.

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Jones, Andrea
To: Borchardt, Bill
Cc: Taylor, Renee; Foggie, Kirk; Doane, Margaret
Sent: Fri Apr 01 09:44:09 2011
Subject: FW: Administrator Li's letter to Mr. Borchardt

Hello, Please see attached letter for Mr. Borchardt.

From: 孟岳 [mailto:meng.yue@mepfeco.org.cn]
Sent: Friday, April 01, 2011 9:40 AM
To: Jones, Andrea
Cc: luan.haiyan@mep.gov.cn
Subject: Administrator Li's letter to Mr. Borchardt

Dear Andrea,

This is Meng Yue from NNSA. I am Stella's colleague. Please find the attached letter from Administrator Li to Mr Borchardt. Please kindly help us to forward this letter to him. Thank you for your assistance.

Best regards,

Meng Yue

Foreign Economic Cooperation Office
Ministry of Environmental Protection
P.R. China

Dear Mr. Borchardt,

I have duly received your letter dated March 30th. Thank you very much for letting me know NRC's position on the future of nuclear power.

On March 11th, an unprecedented earthquake and the tsunami followed struck the northeast of Japan, which caused a severe nuclear accident at Fukushima Daiichi and raised global attention. The Ministry of Environmental Protection/National Nuclear Safety Administration (MEP/NNSA) of China attaches great importance to the accident and takes a series of measures. For example, we call for domestic NPPs to launch comprehensive safety self-review, and we worked with National Energy Administration (NEA) to carry out safety inspection of all the nuclear facilities, so as to ensure the safety operation of all the NPPs in China. For the time being, all the operating and under-construction NPPs are in good condition. Starting from 7:00 am, March 12th, we launched nationwide radiation monitoring network to keep close track of the accident, and we publicized all the information collected in the first time on our website, so that the public can be well informed of the accident. Meanwhile, we have taken this opportunity to raise public awareness on nuclear power, which was well received.

For our next step in maintaining nuclear safety, the MEP/NNSA will strengthen nuclear safety regulation and implement strict

management over the operating NPPs. We will comprehensively review the safety issue of the under-construction NPPs, tighten the control of licensing new NPP project, and enhance environmental monitoring and early-warning assessment. The MEP/NNSA would like to collaborate with US NRC and global counterparts to work on the nuclear safety policy and nuclear safety standard and contribute to enhanced global nuclear safety.

Last but not least, I would like to appreciate your strong support to me as the President of the 5th CNS Review Meeting. I look forward to seeing you again.

Best regards,

Li Ganjie

Vice Minister of the Ministry of Environmental Protection

Administrator of National Nuclear Safety Administration

The People's Republic of China

April 1st, 2011

From: Doane, Margaret
Sent: Friday, April 01, 2011 9:45 AM
To: Borchartt, Bill; Skeen, David
Subject: Fw: Opening of CNS review on Monday

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Davies, Glyn T <DaviesGT@state.gov>
To: Scheland, Mark DL <SchelandMDL@state.gov>; Wood, Robert A <WoodRA3@state.gov>; Shaffer, Mark R <ShafferMr@state.gov>; Doane, Margaret
Sent: Fri Apr 01 07:39:28 2011
Subject: RE: Opening of CNS review on Monday

Good deal. Thanks Mark.

This email is UNCLASSIFIED.

From: Scheland, Mark DL
Sent: Friday, April 01, 2011 1:36 PM
To: Davies, Glyn T; Wood, Robert A; Shaffer, Mark R; 'Doane, Margaret'
Subject: FW: Opening of CNS review on Monday

This email is UNCLASSIFIED.

From: A.J.McGill@iaea.org [mailto:A.J.McGill@iaea.org]
Sent: Friday, April 01, 2011 1:20 PM
To: Scheland, Mark DL
Cc: D.Flory@iaea.org; SEC-PMO.Contact-Point@iaea.org
Subject: FW: Opening of CNS review on Monday

Mark,

We have been informed that the President will observe a minute of silence. Regards, Austin

From: CHONG, Pamela **On Behalf Of** CSERVENY, Vilmos
Sent: Friday,01 April 2011 12:41
To: MCGILL, Austin
Cc: SEC PMO - Contact Point
Subject: FW: Opening of CNS review on Monday

Dear Austin,

FYI/action, please.

Thx,

Pamela

From: SchelandMDL@state.gov [mailto:SchelandMDL@state.gov]
Sent: Friday,01 April 2011 11:45
To: CSERVENY, Vilmos
Cc: FLORY, Denis; Wood, Robert A; Shaffer, Mark R
Subject: Opening of CNS review on Monday

Hello Vilmos,

(b)(5)

Thanks,
Mark

Mark Scheland
Counselor, IAEA Section
U.S. Mission to International Organizations
Postal Address: Boltzmanngasse 16, 1090 Vienna
Street Address: Wagramerstraße 17-19, 1220 Vienna
Tel: +43 (1) 31339 4833
Mobile: (b)(6)

This email is UNCLASSIFIED.

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From: Doane, Margaret
Sent: Friday, April 01, 2011 9:40 AM
To: Ramsey, Jack; Mamish, Nader
Subject: Fw: French Proposal for a Possible Energy Ministers Declaration

Fyi. In case you didn't receive.

Sent from an NRC Blackberry
Margaret Doane

From: Elkind, Jonathan <Jonathan.Elkind@hq.doe.gov>
To: Goodman, Matthew P. <(b)(6)>; Poneman, Daniel <Daniel.Poneman@hq.doe.gov>; Sweetnam, Glen E. <(b)(6)>; Sandalow, David <David.Sandalow@hq.doe.gov>; Anderson, Margot <Margot.Anderson@hq.doe.gov>; Lyons, Peter <Peter.Lyons@Nuclear.Energy.gov>; Connery, Joyce <Joyce.Connery@hq.doe.gov>
Cc: Lipton, David A. <(b)(6)>; Doane, Margaret
Sent: Fri Apr 01 08:20:41 2011
Subject: RE: French Proposal for a Possible Energy Ministers Declaration

(adding NRC)

Matt:

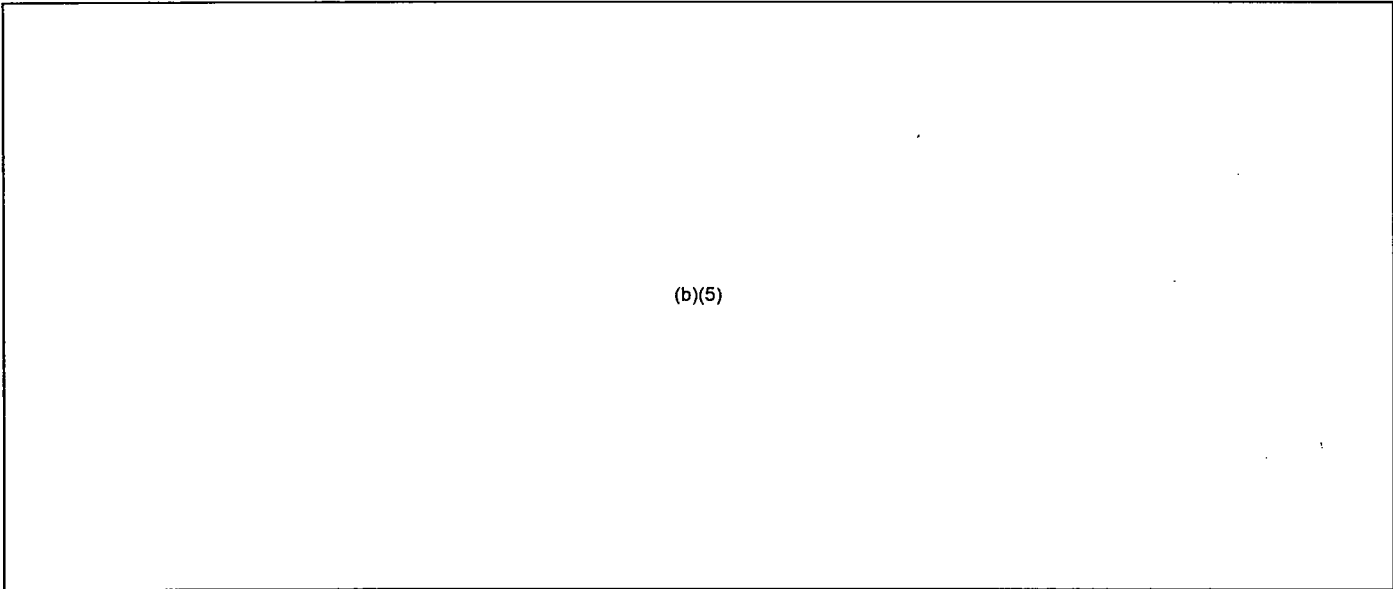
(b)(5)

Jon

Jonathan Elkind
U.S. Department of Energy
+1-202-586-5800
jonathan.elkind@hq.doe.gov

From: Goodman, Matthew P. [mailto:(b)(6)]
Sent: Friday, April 01, 2011 8:11 AM
To: Poneman, Daniel; Sweetnam, Glen E.; Sandalow, David; Elkind, Jonathan; Anderson, Margot; Lyons, Peter; Connery, Joyce

Cc: Lipton, David A.
Subject: RE: French Proposal for a Possible Energy Ministers Declaration



From: Poneman, Daniel [mailto:Daniel.Poneman@hq.doe.gov]
Sent: Friday, April 01, 2011 12:30 AM
To: Sweetnam, Glen E.; Sandalow, David; Elkind, Jonathan; Anderson, Margot; Lyons, Peter; Connery, Joyce
Cc: Lipton, David A.; Goodman, Matthew P.
Subject: RE: French Proposal for a Possible Energy Ministers Declaration

Looping Connery.

Daniel B. Poneman
Deputy Secretary
US Department of Energy
Washington, DC 20585
(202) 586-5500

From: Sweetnam, Glen E. [mailto:(b)(6)]
Sent: Thursday, March 31, 2011 8:29 PM
To: Poneman, Daniel; Sandalow, David; Elkind, Jonathan; Anderson, Margot; Lyons, Peter
Cc: Lipton, David A.; Goodman, Matthew P.
Subject: French Proposal for a Possible Energy Ministers Declaration

Dan et. al.

David Lipton received the attached from the French on Tuesday at the G8 Sherpas meeting.

It is the French proposal for what might be included in an Energy Ministers Declaration after their planned meeting in May.

As you know the French are hosting a very hastily called meeting in Abu Dhabi for senior officials (Under Secretary or Assistant Secretary level) under the auspices of the G20 on April 5. The primary purpose of the meeting is to discuss (from an energy perspective) recent events in Japan and the MENA region (oil markets).

I would like to schedule a conference call with DOE, NRC, and State on Friday afternoon at 4:30 to discuss who should attend the April 5 meeting in Abu Dhabi and what their message should be. I will send you an invitation to this meeting shortly.

Can you also tell me who at the NRC should receive a copy of this proposal and an invitation to our conference call tomorrow.

Thank you, Glen

(b)(6)

From: Doane, Margaret
Sent: Friday, April 01, 2011 7:16 AM
To: ShafferMr@state.gov
Subject: FW: Tone of opening address for VM Li

FYI re VM Li Ganji

From: Rosales-Cooper, Cindy
Sent: Tuesday, March 29, 2011 1:35 PM
To: 'luan.haiyan@mep.gov.cn'; 'jiangwei@mep.gov.cn'
Cc: Jones, Andrea; Foggie, Kirk; Abrams, Charlotte; Doane, Margaret; Skeen, David
Subject: RE: Tone of opening address for VM Li

Hello Stella,
Please convey the message below to Vice Minister Li on behalf of Mr. Borchardt.

Mr. Borchardt respects VM LI's concern for consensus on the response to countries that may be concerned about moving forward with nuclear power. The decision to proceed with nuclear power ultimately rests with each national government. It is not the role of an independent national regulatory authority to establish any policy encouraging or discouraging the development of nuclear power. It is our understanding that most countries will be evaluating their existing and planned programs using lessons learned from the crisis in Japan.

The U.S. Nuclear Regulatory Commission is continuing oversight of its 104 operating reactors; life-extension of existing reactors and licensing reviews of new reactors move forward. Our focus is always on ensuring the health and safety of the American people through our licensing and oversight of plants and radioactive materials in this country.

Over the next several months, we will conduct a review of U.S. nuclear power safety to see if there are changes that should be made to our programs and regulations to ensure protection of public health and safety. In order to accomplish this, we have launched a two-pronged review of U.S. nuclear power plant safety in the aftermath of the March 11 earthquake and tsunami and the resulting crisis at the Fukushima-Daiichi nuclear power station. A task force made up of current senior managers and former NRC experts with relevant experience has been established to conduct both short-and long-term analysis of the lessons that can be learned from the situation in Japan, and the results of their work will be made public.

Mr. Borchardt looks forward to working with VM LI and discussing this further at the CNS in Vienna.

Thanks

Cindy E. Rosales-Cooper
Technical Assistant for International Activities Office of New Reactors
(301) 415-1168

-----Original Message-----

From: luan.haiyan@mep.gov.cn [mailto:luan.haiyan@mep.gov.cn]
Sent: Sunday, March 27, 2011 11:23 PM
To: Jones, Andrea
Cc: Foggie, Kirk; Abrams, Charlotte

Subject: Tone of opening address for VM Li

Hello Andrea,

(b)(4)

Please convey the message to Mr. Borchardt and let us know what his opinions are by Monday.

Best regards and thank you very much for your help.

Stella

From: Doane, Margaret
Sent: Friday, April 01, 2011 6:51 AM
To: Shaffer, Mark R
Cc: Kreuter, Jane
Subject: RE: VIP at UNVIE has concerns....

I'm at home can you call.
Margie

(b)(6)

From: Shaffer, Mark R [ShafferMr@state.gov]
Sent: Friday, April 01, 2011 6:12 AM
To: Doane, Margaret
Cc: Kreuter, Jane
Subject: VIP at UNVIE has concerns....

Thank you Margie - usually I would have picked it up on my NRC account last night, but I had computer problems and wasn't able to check that account yesterday.

(b)(5)

This email is UNCLASSIFIED

-----Original Message-----

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Friday, April 01, 2011 11:54 AM
To: Shaffer, Mark R
Subject: FW: Options for Chairman's CNS schedule

Mark, I sent it to the wrong e-mail address again.
Margie

From: Doane, Margaret
Sent: Thursday, March 31, 2011 7:48 PM
To: Shaffer, Mark

Cc: Jones, Andrea
Subject: FW: Options for Chairman's CNS schedule

Please note that the Chairman is cutting his trip short. He will leave Weds. morning. Andrea can fill you in on the schedule changes.

Sorry for the late breaking news.

Margie

From: Pace, Patti
Sent: Thursday, March 31, 2011 7:05 PM
To: Jones, Andrea; Gibbs, Catina; Warren, Roberta; Marshall, Michael
Cc: Marshall, Michael; Doane, Margaret; Carter, Mary
Subject: RE: Options for Chairman's CNS schedule

Good Evening,

I spoke to Chairman Jaczko about these options. He has decided to select option 4 (leave Vienna at 6:20AM on Wednesday April 6th). I spoke to Mary Carter this evening and she is going to work on changing the Chairman and Michael Marshall's flights as soon as possible.

Thanks,

Patti Pace
Assistant to Chairman Gregory B. Jaczko
U.S. Nuclear Regulatory Commission
301-415-1820 (office)
301-415-3504 (fax)

From: Jones, Andrea
Sent: Thursday, March 31, 2011 5:23 PM
To: Pace, Patti; Gibbs, Catina; Warren, Roberta; Marshall, Michael
Cc: Marshall, Michael; Doane, Margaret
Subject: Options for Chairman's CNS schedule

Catina, Patti, Mike and Bobbie

We've worked out 4 different options for the Chairman's travel to CNS.

Revision 1, he leaves Vienna Tuesday at 11:40 am and arrives back into Dulles at 7:20 pm. We reschedule some meetings so that he can participate in a couple of meetings Monday afternoon and maybe 1 early Tuesday morning.

Revision 2, he leaves the CNS/Vienna International Center (VIC) at approx. 5pm. The Chairman departs Vienna at 6:35 pm on Tuesday and arrives Paris at 8:40 pm Tuesday night. He arrives at Dulles 1pm on Wednesday afternoon. Note: this option requires an overnight stay in Paris.

Revision 3, the Chairman leaves at noon on Tuesday, and arrives at Dulles at 1:25 am - Wednesday morning. On Tuesday morning we can reschedule some appointments that were originally scheduled for Tuesday afternoon (i.e. China and Director General Amano).

Revision 4, would be for the Chairman to arrive Vienna Monday morning and leave Vienna at 6:20 am on Wednesday, arriving into Dulles at 2:01 pm on Wednesday. With this option, he would keep meetings originally scheduled for Monday and Tuesday.

If you have any questions, please let me know.

Andrea

Andrea R. Jones
International Relations Officer
Office of International Programs
U.S. Nuclear Regulatory Commission
301-415-2309

From: Doane, Margaret
Sent: Friday, April 01, 2011 6:47 AM
To: Stahl, Eric; LIA02 Hoc
Cc: Emche, Danielle; Abrams, Charlotte; Mamish, Nader
Subject: RE: French announcement

(b)(5)

Thanks,
Margie

From: Stahl, Eric
Sent: Friday, April 01, 2011 6:39 AM
To: Doane, Margaret; LIA02 Hoc
Cc: Emche, Danielle; Abrams, Charlotte; Mamish, Nader
Subject: RE: French announcement

(b)(5)

Thanks,
Eric

-----Original Message-----

From: Doane, Margaret
Sent: Friday, April 01, 2011 5:57 AM
To: LIA02 Hoc; Stahl, Eric
Cc: Emche, Danielle; Abrams, Charlotte
Subject: RE: French announcement

(b)(5)

Margie

From: LIA02 Hoc
Sent: Friday, April 01, 2011 4:18 AM
To: Stahl, Eric
Cc: Emche, Danielle; Doane, Margaret; Abrams, Charlotte
Subject: RE: French announcement

(b)(5)

Do you know what time you might call in this morning?

From: Stahl, Eric
Sent: Friday, April 01, 2011 4:16 AM
To: LIA02 Hoc
Cc: Emche, Danielle; Doane, Margaret; Abrams, Charlotte
Subject: RE: French announcement

I'm aware of the statement. I haven't heard anything through normal ASN channels (but they are just getting to work in Paris now).

Chuck is meeting with Jamet tomorrow (1230-1400 JST). I've prepared a briefing package (talking points, background, bio, country profile) with much of the background that was included in the RIC Lacoste briefing package and Jaczko-Weightman call briefing package. We'll try to get more info from the meeting tomorrow, but the Jamet meeting was requested by them "to informally discuss the situation in Fukushima;" not international standards, etc.

I'll keep you in the loop with anything new that I hear...

Thanks,
Eric

From: LIA02 Hoc
Sent: Friday, April 01, 2011 4:03 AM
To: Stahl, Eric
Cc: Emche, Danielle
Subject: French announcement

Eric,

Reuters is reporting that Sarkozy has announced plans for a high-level meeting of "G20 nuclear industry officials" in Paris in May 2011 "to define international nuclear safety standards." The article states that Sarkozy "declared this [meeting] would lay the groundwork for the IAEA high-level meeting on June 20-24. We are seeking additional information on this announcement from official channels. See <http://www.reuters.com/article/2011/03/31/us-japan-nuclear-iaea-idUSTRE72U5KY20110331>.

(b)(5)

Thanks!

Jen

From: Doane, Margaret
Sent: Thursday, March 31, 2011 6:57 PM
To: LIA02 Hoc
Cc: Mamish, Nader; Ramsey, Jack
Subject: RE: OHO-Information from NRC Team for 3/31 Morning Meeting

This is a fantastic report! Thanks Danielle. Very helpful.
Margie

From: LIA02 Hoc
Sent: Thursday, March 31, 2011 6:17 AM
To: Doane, Margaret
Cc: Mamish, Nader; LIA02 Hoc
Subject: OHO-Information from NRC Team for 3/31 Morning Meeting
Importance: High

Margie,

Please see attached file for information from Danielle for today's morning meeting.

Please note that this file contains sensitive foreign government information, provided as a result of sensitive exchanges with our Japanese counterparts, and we therefore recommend that it be withheld from further distribution.

Thank you,

Jen

From: Doane, Margaret
Sent: Thursday, March 31, 2011 6:16 PM
To: Owens, Janice; Mamish, Nader
Subject: RE: FYI: Summary of IPC meeting, Temporary Radiological Standards for International Cargo Transborder Supply Chain Security IPC
Attachments: image001.gif; image002.gif

Janice,

(b)(5)

Margie

From: Owens, Janice
Sent: Thursday, March 31, 2011 3:58 PM
To: Doane, Margaret; Mamish, Nader
Subject: RE: FYI: Summary of IPC meeting, Temporary Radiological Standards for International Cargo Transborder Supply Chain Security IPC

(b)(6)



I think it would be better if you used the response I sent (through Angela McIntosh) to an attorney at Jones Day provided below. I also sent her this link a CBP press release.

Thank you, Angela. Here is a link to a press release from Customs and Border Protection.

http://www.customs.gov/xp/cgov/newsroom/news_releases/national/03172011_6.xml

From: McIntosh, Angela
Sent: Wednesday, March 30, 2011 10:38 AM
To: James M Burnham
Cc: Cai, June; Owens, Janice
Subject: Response to Question About the Level of Acceptable Trace Radiation in Imported Products

Mr. Burnham: this is in response to your question concerning what would be the U.S. government's response to the identification of an imported consumer product containing trace levels of radiation. You wanted to know if there is a level at which the U.S. government would consider the import unsafe and reject it. (Your entire question is in context below).

I have consulted with Ms. Janice Owens, Chief of the Export Controls and International Organizations Branch in NRC's Office of International Programs in the provision of the following response.

The answer depends on the type of consumer product that is contaminated, the radiation level detected, and whether the U.S. Customs and Border Protection (CPB) finds it suspicious and/or a public health, safety or environmental hazard. In the latter case, CBP would immediately seize and isolate the shipment or the items in question. If determined to be too dangerous to return to the sender, it would be sent to a licensed disposal facility in the U.S. If CBP determines that the product is not immediately dangerous (e.g., it appears to have been inadvertently contaminated), they might alert the US consignee and give them the option of accepting or rejecting the shipment. If rejected, the items might be returned to the sender. If the U.S. consignee accepts the shipment, the items become their responsibility. CBP has established lines of communications with the NRC, the Environmental Protection Agency and other Federal agencies to address these types of issues.

Importers of certain products (e.g., irradiated gemstones) must be authorized to possess them under a valid NRC or Agreement State¹ license or they must be authorized by the NRC to distribute them under an NRC exempt distribution license. If the US importer has the appropriate domestic authorizations, then the import would be authorized under an NRC general import license in 10 CFR 110.27. Once in the U.S., it is subject to domestic regulations. If the U.S. consignee is not appropriately authorized, they would be in violation of U.S. requirements and subject to NRC enforcement action.

If a contaminated product is being imported solely for disposal or processing prior to disposal, it could be considered radioactive waste if not excluded from the definition of radioactive waste in 10 CFR 110.2. To import radioactive waste, a specific NRC import license is required.

If the quantity of radioactive material is less than the amount that would require an NRC or Agreement State license, then it would not be subject to NRC import licensing. In other words, if exempt from or not regulated by NRC or an Agreement State, it is not subject to NRC import licensing.

I hope this is responsive to your question. However, if you have any more questions, please feel free to contact Ms. Owens directly at 301-415-3684, or Janice.Owens@nrc.gov

Best Regards,
Angela R. McIntosh
Office of Federal and State Materials
and Environmental Management Programs
U.S. Nuclear Regulatory Commission
Mail Stop T8-E24
Angela.McIntosh@nrc.gov
(301) 415-5030

¹ Agreement States are those States that have entered into a formal agreement with the NRC, by which those States have assumed regulatory responsibility over certain byproduct, source, and small quantities of special nuclear material. Click the following link to locate a listing of the Agreement States: <http://nrc-stp.ornl.gov/>

From: James M Burnham [<mailto:jmburnham@jonesday.com>]
Sent: Monday, March 28, 2011 12:04 PM
To: McIntosh, Angela
Subject: Trace Radiation

Ms. McIntosh:

As I explained on the phone, we are trying to find out what level of trace radiation would cause a product that does not normally emit radiation--like a car wheel or a toaster--to be deemed "unsafe" and denied entry into the United States. I know that CPB's scanners can detect tiny amounts of radiation (like the amount in a banana) and that if something triggers a scanner, the product goes to a secondary review. My question is what standards the government then uses to decide whether that product will be admitted into the country (i.e., if it is 20x background it can't come in, etc.).

Any guidance you can provide would be extremely helpful. Thank you in advance for your time.

Warm regards,

James Burnham



James Burnham • Law Clerk/Not Yet Admitted to the Bar

77 West Wacker • Chicago, IL 60601-1692
DIRECT 312.269.4084 • FAX 312.782.8585 • jmburnham@jonesday.com

=====

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=====

From: Doane, Margaret
Sent: Thursday, March 31, 2011 3:44 PM
To: Owens, Janice; Mamish, Nader
Subject: RE: FYI: Summary of IPC meeting, Temporary Radiological Standards for International Cargo Transborder Supply Chain Security IPC

Any problem if I send the following to Rob:

(b)(5)

Margie

From: Lewis, Robert
Sent: Thursday, March 31, 2011 3:12 PM
To: Milligan, Patricia; Weber, Michael; Wiggins, Jim; Moore, Scott; Virgilio, Martin; Haney, Catherine; Ordaz, Vonna; Evans, Michele; Cool, Donald; DeCicco, Joseph; Reis, Terrence; Luehman, James; Zimmerman, Roy; McDermott, Brian; Brock, Kathryn; Deegan, George; Cook, John; Owens, Janice; Mamish, Nader; Rothschild, Trip; Doane, Margaret; PMT03 Hoc; PMT04 Hoc; PMT07 Hoc
Subject: FYI: Summary of IPC meeting, Temporary Radiological Standards for International Cargo Transborder Supply Chain Security IPC

John Cook and I attended the "NATIONAL SECURITY STAFF, TRANSBORDER SECURITY INTERAGENCY POLICY COMMITTEE meeting on Supply Chain Security on Thursday March 31, 2011, in the White House Conference Center. The attached handout (same as yesterday was used for the meeting). Below is a summary.

In short, there was no decision at the meeting - - tomorrow there will be meeting of principles, informed by today's meeting notes, to decide the USG approach.

I do not know if NRC is party to tomorrow's meeting. Today's meeting did not get into any NRC possession licensing, release criteria, or import licensing issues, rather the entire discussion focused on DOT's interpretation of DOT regulations at 49 CFR 173.403 and 173.443. We did not take any position at the meeting, including with respect to DOT's interpretation. (However, I will note as an aside that John and I believe that DOT has the same interpretation of their regulation as we do for our parallels in Part 71 and the IAEA standard TS-R-1).

(b)(5)

(b)(5)

From: Doane, Margaret
Sent: Thursday, March 31, 2011 5:56 PM
To: Coggins, Angela; Batkin, Joshua
Subject: FW: Options for Chairman's CNS schedule
Attachments: Rev. 4 - Table Format.docx; Rev. 1 - Table Format.docx; Rev. 2 - Table Format.docx; Rev. 3 - Table Format.docx

FYI, in case you haven't seen. I'm available if you want to discuss.
Margie

From: Jones, Andrea
Sent: Thursday, March 31, 2011 5:23 PM
To: Pace, Patti; Gibbs, Catina; Warren, Roberta; Marshall, Michael
Cc: Marshall, Michael; Doane, Margaret
Subject: Options for Chairman's CNS schedule

Catina, Patti, Mike and Bobbie

We've worked out 4 different options for the Chairman's travel to CNS.

Revision 1, he leaves Vienna Tuesday at 11:40 am and arrives back into Dulles at 7:20 pm. We reschedule some meetings so that he can participate in a couple of meetings Monday afternoon and maybe 1 early Tuesday morning.

Revision 2, he leaves the CNS/Vienna International Center (VIC) at approx. 5pm. The Chairman departs Vienna at 6:35 pm on Tuesday and arrives Paris at 8:40 pm Tuesday night. He arrives at Dulles 1pm on Wednesday afternoon. Note: this option requires an overnight stay in Paris.

Revision 3, the Chairman leaves at noon on Tuesday, and arrives at Dulles at 1:25 am – Wednesday morning. On Tuesday morning we can reschedule some appointments that were originally scheduled for Tuesday afternoon (i.e. China and Director General Amano).

Revision 4, would be for the Chairman to arrive Vienna Monday morning and leave Vienna at 6:20 am on Wednesday, arriving into Dulles at 2:01 pm on Wednesday. With this option, he would keep meetings originally scheduled for Monday and Tuesday.

If you have any questions, please let me know.

Andrea

Andrea R. Jones
International Relations Officer
Office of International Programs
U.S. Nuclear Regulatory Commission
301-415-2309

April 2-7, 2011
IAEA
Fifth Review Meeting for the Convention on Nuclear Safety
Vienna International Center (VIC)

Sunday, April 3

Time	Activity	Notes
5:11 pm	Depart Washington Dulles via United	~ 3 hour layover in Frankfurt

Monday, April 4

Time	Activity	Notes
10:05 am	Arrive Vienna, Austria	Driver: Mr. Marcel Hackl +664 8333902
~11:30 am	Arrive Hotel Bristol	Kärtner Ring 1 A-1015 Vienna, Austria Phone: (+43)(1) 515160 Fax: (+43)(1) 51516550
Lunch	Open	
1:45-2:00 pm	Meeting with Jim Ellis (Depending on INPO's bilat schedule)	Room B0613
2:00-2:30 pm	Meeting with DG Amano (TBC)	
3:00-4:00 pm	Meeting with China (TBC)	MO106
4:00 – 5:00 pm	Meeting with Ambassador Davies	Room B0613
5:15 – 5:45 pm	Bilateral and Signing with Slovenian Regulatory – Director Andrej Stritar*	Room A2821
	Note: Dir. Stritar is leading Session	
6:00 – 6:15 pm	Signing with Romania Regulator Pres. Vajda Borbala	
6:30 pm	Japan Session	

Tuesday, April 5

Time	Activity	Notes
8:00 -9:00 am	Bilateral with China or Amano (TBD)	
9:00-9:30 am	Open	
9:40 am	Depart VIC	
11:40 am	Depart Vienna	Continental 8836
1:05 pm	Arrive London	Layover in London's Heathrow
4:20 pm	Depart London for Dulles	
7:20 pm	Arrive Dulles	

Note: US Presentation is at 9-12 am on Tuesday, April 5th.

April 2-7, 2011
IAEA
Fifth Review Meeting for the Convention on Nuclear Safety
Vienna International Center (VIC)

Sunday, April 3

Time	Activity	Notes
5:11 pm	Depart Washington Dulles via United No. 916	~ 3 hour layover in Frankfurt

Monday, April 4

Time	Activity	Notes
7:10 am	Depart Frankfurt via United Flight 8964 for Vienna, Austria	
10:05 am	Arrive Vienna, Austria	Driver: Mr. Marcel Hackl +664 8333902
~11:30 am	Arrive Hotel Bristol	Kärtner Ring 1 A-1015 Vienna, Austria Phone: (+43)(1) 515160 Fax: (+43)(1) 51516550
1:30 – 1:45 pm	Meeting with with Jim Ellis [depending on other bilats]	Room A2680
2:00 – 2:45 pm	Meeting with DDG Bychkov (Nuclear Energy)	Room A2680
3:00 – 3:45 pm	Meeting with DDG Aning (Technical Cooperation)	Room B1138
4:00 – 5:00 pm	Meeting with Ambassador Davies	Room B0613
5:15 – 5:45 pm	Bilateral and Signing with Slovenian Regulator - Director Andrej Stritar	Room B0613
6:00 – 6:15 pm	Signing with Signing with Romania Regulator -Pres. Vajda Borbala	
~6:30 pm	Japan Session	TBD

Tuesday, April 5

Time	Activity	Notes
~7:30 am	Depart hotel for VIC	
8:15 am	U.S. Delegation Meeting	MOE59
8:45 am	Walk to meeting room to take seats for U.S. presentation	
9:00 – 12:00 pm	U.S. Presentation of National Report	Room TBD
12:15 – 1:15 pm	Lunch	

1:30 – 2:15 pm	Meeting with DDG Flory (Nuclear Safety and Security)	Room B0940
2:30 – 3:30 pm	Meeting with DG Amano	Room A2821
3:45 – 4:15 pm	Bilateral with Switzerland - Director Hans Wanner	Room B0613
4:30 – 5:00 pm	Bilateral with China - Vice Minister Li	Room M0106
~5:00 pm	Depart VIC for Vienna Airport	
6:35 pm	Depart Vienna Airport	Delta 8364
8:40pm	Arrive Paris	Overnight stay in Paris

Wednesday, April 6

Time	Activity	Notes
10:40 am	Depart Paris Airport	Delta 8496
1:00 pm	Arrive Dulles	

April 2-7, 2011
IAEA
Fifth Review Meeting for the Convention on Nuclear Safety
Vienna International Center (VIC)

Sunday, April 3

Time	Activity	Notes
5:11 pm	Depart Washington Dulles via United No. 916	~ 3 hour layover in Frankfurt

Monday, April 4

Time	Activity	Notes
7:10 am	Depart Frankfurt via United Flight 8964 for Vienna, Austria	
10:05 am	Arrive Vienna, Austria	Driver: Mr. Marcel Hackl +664 8333902
~11:30 am	Arrive Hotel Bristol	Kärtner Ring 1 A-1015 Vienna, Austria Phone: (+43)(1) 515160 Fax: (+43)(1) 51516550
1:30 – 1:45 pm	Meeting with with Jim Ellis [depending on other bilats]	Room A2680
2:00 – 2:45 pm	Open for Meeting with DG Amano (TBC)	
3:00 – 3:45 pm	Open for Meeting with China (TBC)	Room M0106
4:00 – 5:00 pm	Meeting with Ambassador Davies	Room B0613
5:15 – 5:45 pm	Bilateral and Signing with Slovenian Regulator - Director Andrej Stritar	Room B0613
6:00 – 6:15 pm	Signing with Signing with Romania Regulator -Pres. Vajda Borbala	
~6:30 pm	Japan Session	TBD

Tuesday, April 5

Time	Activity	Notes
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8:15 am	U.S. Delegation Meeting	MOE59
8:45 am	Walk to meeting room to take seats for U.S. presentation	
9:00 – 12:00 pm	U.S. Presentation of National Report	Room TBD
noon	Leave VIC for Vienna Airport	
2:10 pm	Depart Vienna Airport via Delta 8554	
4:10pm	Arrive Amsterdam, Netherlands	
5:45 pm	Leave Amsterdam via Delta 9358	
7:50 pm	Arrive JFK Airport	
10:05 pm	Leave New York, via Train No. 177	
1:25 am	Arrives Union Station	

April 2–7, 2011
IAEA
Fifth Review Meeting for the Convention on Nuclear Safety
Vienna International Center (VIC)

Sunday, April 3

Time	Activity	Notes
5:11 pm	Depart Washington Dulles via United No. 916	~ 3 hour layover in Frankfurt

Monday, April 4

Time	Activity	Notes
7:10 am	Depart Frankfurt via United Flight 8964 for Vienna, Austria	
10:05 am	Arrive Vienna, Austria	Driver: Mr. Marcel Hackl +664 8333902
~11:30	Arrive Hotel Bristol	
~ 1pm	Leave Hotel	
1:30 – 1:45 pm	Meeting with with Jim Ellis [depending on other bilats]	Room B0613
2:00 – 2:45 pm	Meeting with DDG Bychkov (Nuclear Energy)	Room A2680
3:00 – 3:45 pm	Meeting with DDG Aning (Technical Cooperation)	Room B1138
4:00 – 5:00 pm	Meeting with Ambassador Davies	Room B0613
5:15 – 5:45 pm	Bilateral and Signing with Slovenian Regulator - Director Andrej Stritar*	Room B0613
	Note: *Dir. Stritar is leading Session	
6:00-6:15pm	Signing with Romania	TBC
~6:30 pm	Japan Session	

Tuesday, April 5

Time	Activity	Notes
~7:30 am	Depart hotel for VIC	
8:15 am	U.S. Delegation Meeting	MOE59
8:45 am	Walk to meeting room to take seats for U.S. presentation	
9:00 – 12:00 pm	U.S. Presentation of National Report	Room TBD
12:15 – 1:15 pm	Lunch	
1:30 – 2:15 pm	Meeting with DDG Flory (Nuclear Safety and Security)	Room B0940
2:30 – 3:30 pm	Meeting with DG Amano	Room A2821
3:45 – 4:15 pm	Bilateral with Switzerland - Director Hans Wanner	Room B0613

4:30 – 5:00 pm	Bilateral with China - Vice Minister Li	Room M0106
5:15 – 5:45 pm	Bilateral with Finland - DG Jukka Laaksonen	Room B0613
~5:45 pm	Depart VIC for Hotel	
~7:00 pm	Depart Hotel for Dinner	Via Embassy Driver
7:30 pm	No-host delegation dinner	Griechenbeisi Restaurant (near Schwendenplatz)

Wednesday, April 6

Time	Activity	Notes
4:30 am	Depart Hotel for Airport	
6:20 am	Depart Vienna via United flight 8959	~ 1.5 hours layover in Frankfurt, Germany
7:45 am	Arrive Frankfurt, Germany	
11:00 am	Depart Frankfurt for Washington Dulles via United Flight 0953	
2:01 pm	Arrive Washington Dulles Airport	

From: Doane, Margaret
Sent: Thursday, March 31, 2011 3:27 PM
To: 'Shaffer, Mark R'
Subject: RE: IAEA - Japan

(b)(5)

Margie

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Thursday, March 31, 2011 11:46 AM
To: Doane, Margaret
Subject: Re: IAEA - Japan

(b)(5)

Mark

From: Doane, Margaret <Margaret.Doane@nrc.gov>
To: Shaffer, Mark R
Cc: Schwartzman, Jennifer <Jennifer.Schwartzman@nrc.gov>
Sent: Thu Mar 31 17:24:37 2011
Subject: Re: IAEA - Japan

I'll try to find out. More confusion this morning. Bill said you want to meet on Sat. asked for details - who else should come. I told him I thought (just a guess) it was personal, just to catch up. I asked if that would be ok. I told him not to bring anyone else. Was that right.
Maybe you have spoken since.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Cc: Schwartzman, Jennifer
Sent: Thu Mar 31 02:25:30 2011
Subject: RE: IAEA - Japan

Margie:

(b)(5)

-Mark

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Thursday, March 31, 2011 1:07 AM
To: Shaffer, Mark R
Cc: Schwartzman, Jennifer
Subject: FW: IAEA - Japan

Mark,

(b)(5)

Margie

From: Borchardt, Bill
Sent: Wednesday, March 30, 2011 1:53 PM
To: Jaczko, Gregory; Doane, Margaret
Cc: Skeen, David; Rodriguez, Veronica
Subject: IAEA - Japan

IAEA is arranging a Fukushima event presentation by Japan for Monday evening 4/4/11. This will be separate from the CNS review meeting and all IAEA member states will be invited. IAEA is asking the US if we would give a 10-15 minute presentation on our follow-on activities as part of the evening session. WENRA has already agreed to describe their activities. I committed to send IAEA an answer as soon as we made a decision.

Margie – I don't know if Mark or the Ambassador are aware of the additional presentations being contemplated.

From: Doane, Margaret
Sent: Thursday, March 31, 2011 2:04 PM
To: Skeen, David
Cc: Borchardt, Bill; Stahl, Eric
Subject: Fw: Convention Nuclear Safety USNRC Bill Borchart Fronte AREVA case
Attachments: image001.png

Dave as you can see from the string of e-mails, Eric referred the Fronte matter to France and below is their response closing the matter. Eric is in Japan and can be reached by bb.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: MIEUSSET Thomas <Thomas.MIEUSSET@asn.fr>
To: Stahl, Eric
Cc: Doane, Margaret; Abrams, Charlotte; MIEUSSET Thomas <Thomas.MIEUSSET@asn.fr>
Sent: Thu Mar 31 12:38:08 2011
Subject: RE: Convention Nuclear Safety USNRC Bill Borchart Fronte AREVA case

Eric,

Thank you for this information. ASN representatives to the Convention on Nuclear Safety have been informed. At that point, as NRC, we do not plan to take any further action.

Regards

Thomas

De : Stahl, Eric [mailto:Eric.Stahl@nrc.gov]
Envoyé : mercredi 30 mars 2011 15:50
À : MIEUSSET Thomas
Cc : Doane, Margaret; Abrams, Charlotte
Objet : FW: Convention Nuclear Safety USNRC Bill Borchart Fronte AREVA case

Dear Thomas,

Bill Borchardt, through his role with with the Convention on Nuclear Safety received the e-mail below from Tommaso Fronte. As you can see from his email, Mr. Fronte feels he was treated unfairly for raising unspecified safety concerns associated with Areva. I trust that ASN is aware of Mr. Fronte's concerns, but NRC wanted to share his e-mail with you for your information to let you know he contacted our organization. Since this appears to be a concern with the French judicial system, the NRC has no jurisdiction in this issue, and we do not plan to take any further action.

If you have any questions or need any additional information, please let me know.

Best regards,
Eric

From: [redacted] (b)(6)
Sent: Tuesday, March 22, 2011 9:19 AM
To: Borchardt, Bill
Subject: Convention Nuclear Safety USNRC Bill Borchardt Fronte AREVA case

US NRC
Mr Bill Borchardt
Mailstop O-4-E-21
11155 Rockville, MD20852
Washington DC

Dear Sir ,

Under the Convention on Nuclear Safety (CNS), the Contracting Parties submit periodic reports on their activities and meet within the IAEA to review them. The embarrassing events mentioned in the hereto attached document have never been reported .

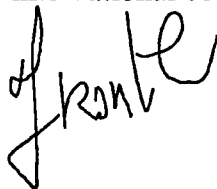
As nuclear accidents have the potential for trans-boundary effects on different countries, an international agreement , the CNS (Vienna-1994), sets minimum requirements aimed to control the risks. Nevertheless , the violations of some requirements carry benefits quickly and easily; they push for practices that deteriorate the safety level and distort the fair competition in the market of the nuclear safety grade equipment and services .

The Fronte – AREVA case, mentioned in the attached document, illustrates some of the above practices affecting the design, the manufacturing and the operation of nuclear reactors. As much as seven French Supreme Court decisions shed light on the way the laws are enforced by the nuclear operators or the judges. Globally, this case includes more than twenty court decisions rendered over a ten-year period, the latest of which in 2011.

The French General Prosecutor of the Supreme Court of Appeals (*Cour de cassation*) has been alerted . Shortly thereafter, in January 2011, he delivered a highly critical speech about the judicial system . Many of the topics he addressed generically are actually implemented in the Fronte – AREVA case, thus making obvious how, behind the appearance of legality , the rule of law fails to be enforced in the nuclear field. Failing the rule of law , different measures taken under the CNS within the framework of the national laws can be steadily neutralized or misused . The Contracting Parties should seek the relevant clarifications and let the public know.

The methods addressed in the Fronte – AREVA case make it possible to turn into a fool's game the international agreements covering different fields, including the nuclear safety. This should concern you, as a prominent representative of a country which is a Contracting Party to the Convention on Nuclear Safety and a Member State of G8 or G20.

It's your choice as to whether stand aside or help oppose breaches which adversely impact the enforcement of international conventions .



Yours faithfully
Tommaso Fronte

From: Doane, Margaret
Sent: Thursday, March 31, 2011 11:05 AM
To: Ramsey, Jack
Subject: FW: Contacts

Please address.
Margie

-----Original Message-----

From: Smith, Brooke
Sent: Wednesday, March 30, 2011 6:48 PM
To: Doane, Margaret; Emche, Danielle; Stahl, Eric
Cc: Foggie, Kirk
Subject: Re: Contacts

The NRC Japan team has been referring all members of industry to INPO. We will let Al know that Merrifield is in town.

Sent from an NRC Blackberry.

Brooke G. Smith

(b)(6)

----- Original Message -----

From: Doane, Margaret
To: Emche, Danielle; Stahl, Eric
Cc: Foggie, Kirk; Smith, Brooke
Sent: Wed Mar 30 08:07:55 2011
Subject: Fw: Contacts

Please see note below. He's a former NRC Commissioner. He is now with Industry and is part of their response effort but will be respectful of the regulatory role.

Thanks.
Margie

Sent from an NRC Blackberry

Margaret Doane

----- Original Message -----

From: Doane, Margaret
To: 'jeff.merrifield@shwgrp.com' <jeff.merrifield@shwgrp.com>; Emche, Danielle; Stahl, Eric
Sent: Wed Mar 30 08:00:50 2011
Subject: Contacts

Jeff. We have two desk officers on the ground. Danielle Emche and Eric Stahl. Feel free to contact them. They have bbs. Depending on what you need they can also put you in contact with Guilia Bisconti from DOE, who is also there. I don't have her e-mail with me.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 6:46 PM
To: Shaffer, Mark
Subject: Agenda

Hi Mark,

I know it is like trying to put a rubber band around jello, but any info. you can get us about the upcoming agenda for the CNS would be much appreciated.

- 1) Monday morning plenary. Who's speaking – how long will it be. Will Japan give a high level statement.
- 2) Monday evening – Will there be a role for the US, and if so, what – so that we can put together a presentation
- 3) Friday - Will Japan do a country report? There was discussion that if they came in on Monday they would need to go home the next day or two.

Margie

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 6:00 PM
To: Fragoyannis, Nancy
Subject: Fw: Third NRC Team to Japan
Attachments: 3rd Staff Deployment to Japan Final.docx

Fyi

Sent from an NRC Blackberry
Margaret Doane

From: Evans, Michele
To: Call, Michel; Salay, Michael; Hay, Michael; Bernhard, Rudolph; LIA03 Hoc; LIA02 Hoc
Cc: Doane, Margaret; Mamish, Nader; Lee, Richard; Case, Michael; Sheron, Brian; Haney, Catherine; Ordaz, Vonna; McCree, Victor; Kennedy, Kriss; Casto, Chuck; Monninger, John; Virgilio, Martin; Weber, Michael; Borchardt, Bill; Bahadur, Sher; Ruland, William; Leeds, Eric; Johnson, Michael; Holahan, Gary; Pederson, Cynthia; Camper, Larry; Wiggins, Jim; Dorman, Dan; Collins, Elmo
Sent: Wed Mar 30 16:29:21 2011
Subject: Third NRC Team to Japan

Thank you for volunteering for deployment to Japan. This work is of highest priority for the agency and your efforts are enormously appreciated.

At this time we've identified 4 additional technical staff to support the team in Japan. **The plan is for Mike Salay (RES), Michel Call (NMSS), Mike Hay (RIV), and Rudy Bernhard (RII) to leave the USA on Saturday, April 2.** The intent is that your stay will be two weeks or less.

An additional staff member with International Programs expertise will be identified by OIP to support and provide relief in the near term.

The Operations Center Liaison Team (LT) will be contacting you later today to handle the logistic for your trip. This includes items such as flights, passports, country clearances, health immunizations, international blackberry service, dosimetry and KI tablets.

In addition, HR has requested that I provide you the information below:

-Please contact NRC Health Services at your earliest convenience on 301-415-8400 to schedule an appointment with Dr. Cadoux for health screening and counseling. If at all possible, it is important that you meet with Dr. Cadoux face-to-face. However, if you are located in the Region or if you are notified and deployed in a very short time frame so that medical screening is not possible, this screening will be conducted by phone. Please be aware that medical services available in Tokyo are limited at this time. Additionally, working conditions are such that controlling diet, sleep, exercise, and routine may be impossible. All of these factors can impact your health. Please review any medical conditions that you may have with Dr. Cadoux so that he can provide you with advice and counseling on managing your medical condition while deployed.

-Before you deploy we recommend that you speak briefly with the NRC Employee Assistance Program counselor, Sarah Linnerooth. Sarah can be reached on 301-415-7113. While you are deployed, EAP services are available to both you and your family, including extended family members such as Grandparents. The telephone number for EAP service is 1-800-896-0276. More information is available on the EAP on the web

at www.eapconsultants.com. To learn more about the EAP and the services provided click on the member services tab. The NRC passcode is (b)(6). Please be sure to share this information with your family.

At this point, I ask that you hold any questions that you may have until the LT contacts you directly. However, after that time, if you have any additional questions or concerns that have not been addressed, please call or email me.

Thank you.

Michele Evans
Acting Deputy OD, NSIR
Michele.evans@nrc.gov
BB: (b)(6)

Deployment of Third NRC Team to Japan as of March 30, 2011

Skill Set	Name/Office/Projected Deployment date
Executive Level – Team Lead - primary role is to interface with the Ambassador and Japanese regulators, military and cabinet	Chuck Casto to remain on team
Executive level – assistant Team Leader. Eventually will replace Dan Dorman.	Elmo Collins/RIV/March 29
4 members with a collective good understanding of severe accident management, B5b and accident recovery	<p>Mike Salay/RES/April 2 or 3</p> <ul style="list-style-type: none"> • Severe accident expertise, OECD agreements on fission product behavior and MELCOR modeling • Good political savvy <p>Michel Call/NMSS/April 2</p> <ul style="list-style-type: none"> • Nuclear Engineer • Fluent in Japanese and lived in Northern Japan for 2 years • Criticality and Shielding evaluations <p>Mike Hay/RIV/April 2</p> <ul style="list-style-type: none"> • Outstanding general ops, interpersonal skills, and Masters in HP • Extensive emergency planning and event response experiences <p>Rudy Bernhard/RII/April 2</p> <ul style="list-style-type: none"> • Wealth of experience including expert knowledge of severe accident management, B5b, and accident recovery.
International Programs Expertise	TBD/TBD/TBD

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 2:00 PM
To: Warren, Roberta
Subject: FW: Urgent - Chairman Call with DG Amano
Attachments: 11-11091E USA -3-.pdf; IAEA Convening High Level Conference.docx

Bobbi,

From Mark this morning:

Amano just answered/announced this during the meeting with Member States a couple of hours ago...Ambassador from Brazil will be heading up this effort and will be working this issue directly with Missions soon.

Attached is the draft text from the cable we are sending to Secy.

Clinton this afternoon on the subject.

(b)(7)

Also attached is the letter from IAEA to Clinton.

Hope this helps...

-----Original Message-----

From: Ramsey, Jack [mailto:Jack.Ramsey@nrc.gov]

Sent: Wednesday, March 30, 2011 6:19 PM

To: Doane, Margaret; Mamish, Nader; Shaffer, Mark R; Schwartzman, Jennifer; Henderson, Karen

Subject: Urgent - Chairman Call with DG Amano

Importance: High

All,

We've been advised that today (Wednesday) at 3pm the Chairman will be having a courtesy call with DG Amano. In support of this call, we've prepared the attached (short) suggested talking points. Could you please review ASAP and give me feedback no later than 1:30pm today WashDC time? Thanks!

Jack

Mark - initially we thought the call was at 1pm, now we're told 3pm.
This is why we're now sending suggested points out for comment.

This email is UNCLASSIFIED



Atoms for Peace

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence Internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energia Atómica

Ms Hillary Rodham Clinton
Secretary of State of the United States of
America
US Department of State
2201 C Street, NW
WASHINGTON, DC 20520
UNITED STATES OF AMERICA

Vienna International Centre, PO Box 100, 1400 Vienna, Austria

Phone: (+43 1) 2600 • Fax: (+43 1) 26007

Email: Official.Mail@iaea.org • Internet: <http://www.iaea.org>

In reply please refer to:

Dial directly to extension: (+431) 2600-21110

2011-03-30

Madam,

The crisis at the Fukushima Daiichi nuclear power plant in Japan, following the devastating earthquake and tsunami on March 11, is not yet overcome.

It will take time before the situation is entirely stabilized. From the beginning, the IAEA has been actively assisting Japan and sharing information with its Member States.

After the accident, I convened a Special Meeting of the Board of Governors of the IAEA, at which I underscored the need for robust follow-up action once the situation has been stabilised. I have been encouraged by the expressions of support I have received from all Member States of the IAEA.

In order to provide the political support this process will undoubtedly require, I have the honour to invite you to participate in the IAEA Ministerial Conference on Nuclear Safety to be held in Vienna from June 20 to 24, 2011.

This Conference will provide an opportunity to make an initial assessment of the Fukushima accident, consider lessons that need to be learned, help launch a process to strengthen global nuclear safety and consider ways to further strengthen the response to nuclear accidents and emergencies.

A detailed agenda for the Conference will be circulated in due course after consultations with your representatives in Vienna.

The IAEA Ministerial Meeting on Nuclear Safety is a key event, your personal attendance, and your country's substantive contributions to the process, will be extremely important. I hope you will join me in Vienna for this important occasion.

Please accept, Madam, the assurances of my highest consideration.

Yukiya Amano
Director General

IAEA Convening High-Level Nuclear Safety Conference in Wake of Fukushima

1. (U) Summary and Recommendation: IAEA Director General (DG) Amano has written to the Secretary (letter attached for SMART users) and foreign ministers of all IAEA Member States to announce the convening of a high-level conference on nuclear safety in Vienna June 20-24, 2011. Amano referred to the gathering as "ministerial" in rank, although in response to a question said he expected ministers to participate on the opening day but most of the conference's work to treat technical practices and norms. Mission recommends prompt reply from the Secretary committing the U.S. to participate; however, while we expect the NRC Chairman will prove to be the appropriate Head of Delegation we recommend reserving that decision for later into the process of elaborating the conference structure. End Summary and Recommendation.
2. (U) At the outset of the IAEA's March 30 technical briefing on response to the Fukushima nuclear power plant crisis in post-earthquake Japan, IAEA Director General (DG) Amano said he has written to the foreign ministers of all IAEA Member States to announce the convening of a high-level conference on nuclear safety in Vienna June 20-24, 2011. Amano referred to the gathering as "ministerial" in rank, although in response to a subsequent question said he expected ministers to participate on the opening day but most of the conference's work to treat technical practices and norms. The DG designated Brazilian PermRep and IAEA Governor Antonio Guerreiro to coordinate Member State inputs into determining the agenda, structure, and intended outcomes. Amano said he would put Secretariat staff at Guerreiro's disposal in this process; Guerreiro subsequently confirmed his intent to hold a first open-ended consultation very soon.
3. (U) The U.S., Singapore, Argentina, Germany, South Africa, Japan, and Russia each briefly took the floor to welcome Amano's announcement and commit to work constructively with Amb. Guerreiro in the preparation and conduct of the conference. In reply to questions Amano said states could determine their own representation and he suggested ministers of foreign affairs, energy, or nuclear power (from those countries that have that portfolio) might be suitable. He expected some ministers to participate on the first day but noted the international community had technical issues to address treating, inter alia, nuclear incident assessment, coordination of response, and "safeguards." He did not want to pre-judge the structure and agenda that Amb. Guerreiro's consultations would work out.
4. (U) Amano reported as well that Japan and the IAEA would co-sponsor a side event on Fukushima starting at 6:30 p.m. Monday, April 4, the first day of the periodic review of the Convention on Nuclear Safety. Details of program and duration were still being worked out. He noted the small IAEA expert mission he had announced two days before would go to Japan as soon as access to the power plant and reactors becomes possible. A first IAEA team would inform the Agency's plan for subsequent advisory, assessment, or assistance missions.
5. (SBU) Ambassador had proposed to Amano and to like-minded counterparts in recent days the convening of a conference to review lessons learned and reconsider the

mechanisms of the now 25-year-old nuclear incident conventions. After a small group consultation, the German Ambassador had on Friday, March 25, conveyed to Amano like-minded ideas for giving due attention to Fukushima at this coming Monday's kick-off of the CNS review, but moving the Fukushima reckoning off to the near future so as to preserve other work under the CNS and give Japan time to more fully contain the crisis. Amano's Chef de Cabinet Rafael Grossi alerted Ambassador in advance to Amano's March 30 announcement of the process and agreement of Brazil's Ambassador (also one of our suggestions) to chair it. We expect to stay actively involved in shaping the June event.

6. (SBU) Grossi also told Ambassador the DG and his staff are referring often to the post-Chernobyl play book (mindful of the many differences between Chernobyl and Fukushima) for clues about how to proceed. For instance, Amano and Co. are mulling whether a "technical conference" on Fukushima in the Fall of this year is in order as a follow-up to the initial, more "political" June high-level conference. (Note: Amano hints at this as well in his letter to the Secretary and her FonMin colleagues, which reads in part: "This Conference will provide an opportunity to make an *initial* assessment of the Fukushima accident, consider lessons that need to be learned, *help launch a process* to strengthen global nuclear safety and consider ways to further strengthen the response to nuclear accidents and emergencies." End Note.)

7. (U) Comment and Recommendation: Mission recommends the Secretary reply promptly to confirm U.S. participation in the June 20-24 conference. Her formal reply to Amano need not fix who the U.S. Head of Delegation (HOD) will be but can indicate we will supply that information in due course to the Secretariat. While we expect the NRC Chairman will prove to be the appropriate HOD, we recommend making that decision later in the process of elaborating the conference structure. Department may also consider issuing an instruction to all IAEA Member States Collective providing U.S. views and encouraging participation.

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 12:42 PM
To: Ramsey, Jack
Subject: Fw: Phone call to DG Amano

Did you get this.

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: Mamish, Nader; Abrams, Charlotte; Schwartzman, Jennifer
Cc: Owens, Janice
Sent: Wed Mar 30 12:11:42 2011
Subject: Re: Phone call to DG Amano

(b)(5)

Send to me before they go up.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Mamish, Nader
To: Abrams, Charlotte; Schwartzman, Jennifer
Cc: Doane, Margaret; Owens, Janice
Sent: Wed Mar 30 12:05:18 2011
Subject: RE: Phone call to DG Amano

Just got a follow-up call from the Chairman's office. Call is to take place at 1:00 pm today. Jack is putting together some notes. I will work w/him to deliver them by 12:30.

From: Abrams, Charlotte
Sent: Wednesday, March 30, 2011 11:36 AM
To: Mamish, Nader; Schwartzman, Jennifer
Cc: Doane, Margaret; Owens, Janice
Subject: RE: Phone call to DG Amano

Nader – Jenn is on ops duty from 11 to 7 tonight. She has gone home (b)(6) but will probably check her blackberry later today.

From: Mamish, Nader
Sent: Wednesday, March 30, 2011 11:29 AM
To: Schwartzman, Jennifer
Cc: Doane, Margaret; Owens, Janice; Abrams, Charlotte

Subject: FW: Phone call to DG Amano
Importance: High

Jen:

Could you please put together some talking points this evening and send them to Margie and I before you leave at 7:00?

Thanks

From: Warren, Roberta
Sent: Wednesday, March 30, 2011 10:55 AM
To: Doane, Margaret; Mamish, Nader
Cc: Gibbs, Catina; Bradford, Anna; Coggins, Angela; Batkin, Joshua
Subject: FW: Phone call to DG Amano
Importance: High

Margie/Nader; we are in the process of setting up a call for the Chairman and DG Amano for either tomorrow or Friday. Can you prepare some talking points for this call as you previously indicated? We will need them by end of today.

Thanks, Bobbi

Roberta S. Warren
Policy Advisor for Security and Int'l Programs
Office of the Chairman
U.S. NRC
(301) 415-8044

(b)(6) (C)

From: Batkin, Joshua
Sent: Wednesday, March 30, 2011 9:27 AM
To: Gibbs, Catina
Cc: Warren, Roberta
Subject: Re: Phone call to DG Amano

Please set up for this week. Tps from OIP.

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

From: Gibbs, Catina
To: Batkin, Joshua
Sent: Wed Mar 30 09:25:20 2011
Subject: FW: Phone call to DG Amano

Josh, regarding email below...Please advise on scheduling call between the Chairman and DG Amano.

Thanks,

Catina M. Gibbs
Admin. Assistant to
Chairman Gregory B. Jaczko

U.S. Nuclear Regulatory Commission
301-415-1750 (office)
301-415-3504 (fax)

From: Pace, Patti
Sent: Tuesday, March 29, 2011 12:21 PM
To: Gibbs, Catina; Bradford, Anna; Warren, Roberta
Subject: Fw: Phone call to DG Amano

FYI
Patti Pace
U.S. Nuclear Regulatory Commission
(301) 415-1820

From: Doane, Margaret
To: Batkin, Joshua
Cc: Pace, Patti; Schwartzman, Jennifer
Sent: Tue Mar 29 11:43:04 2011
Subject: Phone call to DG Amano

(b)(5)

Can you give me a call or response on your views.

Margie

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 12:09 PM
To: Smiroldo, Elizabeth
Cc: Abrams, Charlotte; Jones, Andrea
Subject: Re: letter--Irina's take

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Smiroldo, Elizabeth
To: Doane, Margaret
Cc: Abrams, Charlotte; Jones, Andrea
Sent: Wed Mar 30 11:54:56 2011
Subject: FW: letter--Irina's take

Hi, Margie,

(b)(5)

Please let me know your thoughts!
Best,
Elizabeth

From: Соколова Ирина Викторовна [mailto:I.Sokolova@gosnadzor.ru]
Sent: Wednesday, March 30, 2011 11:39 AM
To: Smiroldo, Elizabeth; Измайлов Александр Станиславович
Cc: Young, Francis; Иванова Мария Вячеславовна; Утенков Алексей Вячеславович
Subject: RE: letter
Importance: High

Dear Elizabeth,

(b)(4)

Best regards,
Irina

(b)(4)

From: Smiroldo, Elizabeth [mailto:Elizabeth.Smiroldo@nrc.gov]
Sent: Wednesday, March 30, 2011 3:32 AM
To: Измайлов Александр Станиславович; Соколова Ирина Викторовна
Cc: Young, Francis; Иванова Мария Вячеславовна; Утенков Алексей Вячеславович
Subject: RE: letter

Dear Alexander,

I will again remind my colleagues of the safety standards. Please stay tuned!

Regarding the letter, I sincerely apologize for the delay. Our Chairman was in Japan and only just got back. In the meantime, our director has some concerns that in light of the Japanese situation, there may be a misunderstanding about why we are sending the letter. The timing is such that the letter may inadvertently look Japan-focused – i.e., that NRC and Rostekhnadzor have identified qualification of nuclear workers as an issue to be associated with Japan, which of course is not true. Chairman Jaczko has unfortunately not been able to focus on this subject at the moment. We thought it might be appropriate to add a sentence indicating that the idea was generated in advance of the Japan events, but this is something we will need to discuss in more detail with our Chairman. Now that he has returned from Japan, will should have more time. Indeed, at the Regulatory Information Conference he sincerely expressed his views that international certification was a great idea, and was pleased to bring forward the subject along with Chairman Kutin at the next meeting of MDEP.

Incidentally, does Mr. Kutin plan to attend the Convention on Nuclear Safety meeting in Vienna next week?

Finally, thank you so much for providing information about the remediation companies. It would help our Japanese colleagues very much!

Best regards,
Elizabeth

From: Измайлов Александр Станиславович [mailto:izmaylov@gosnadzor.ru]
Sent: Tuesday, March 29, 2011 7:29 AM
To: Smiroldo, Elizabeth; Соколова Ирина Викторовна
Cc: Young, Francis; Иванова Мария Вячеславовна; Утенков Алексей Вячеславович
Subject: RE: letter

Dear Elizabeth,

(b)(4)

Best wishes,

Alexander

From: Smioldo, Elizabeth [mailto:Elizabeth.Smioldo@nrc.gov]
Sent: Friday, March 25, 2011 1:38 AM
To: Измайлов Александр Станиславович
Сс: Иванова Мария Вячеславовна
Subject: RE: letter

Hello, Alexander,

Yes, I the letter I'm referencing is the same. I'm sorry; for the moment it has been impossible to prioritize this letter due to Chairman Jaczko's extremely busy schedule. But I am trying! I apologize for the inconvenience. I will let you know more as soon as possible.

Best regards,
Elizabeth

From: Измайлов Александр Станиславович [mailto:izmaylov@gosnadzor.ru]
Sent: Thursday, March 24, 2011 3:31 AM
To: Smioldo, Elizabeth
Сс: Иванова Мария Вячеславовна
Subject: RE: letter

Dear Elizabeth,

(b)(4)

Best wishes,
Alexander

From: Smioldo, Elizabeth [mailto:Elizabeth.Smioldo@nrc.gov]
Sent: Thursday, March 24, 2011 12:02 AM
To: Измайлов Александр Станиславович
Сс: Young, Francis
Subject: RE: letter

Dear Alexander,

We are working on the letter, but our director has had some thoughts about it. I will contact you personally by telephone to discuss the situation as soon as possible.

Best wishes,
Elizabeth

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 10:07 AM
To: Ramsey, Jack
Subject: RE: Merrifield Called For You (eom)

thanks. He's in Japan.

I'd like someone to stop the ride, so I can get off.
Margie

From: Ramsey, Jack
Sent: Wednesday, March 30, 2011 10:02 AM
To: Doane, Margaret
Subject: Merrifield Called For You (eom)

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 9:56 AM
To: Ramsey, Jack
Cc: Mamish, Nader

<http://www.stripes.com/mobile/news/pacific/japan/expert-info-released-to-public-on-radiation-too-confusing-1.139200>

Gale says that exclusion zones, including US 50 miles "are completely arbitrary."

See attached article.

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 9:35 AM
To: Ramsey, Jack; Mamish, Nader
Subject: Re: Dr. Gale

Good Morning America this morning said he was appointed as an advisor to the PM. They had an interview with him. He had complete access to site, etc. Very interesting.

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Ramsey, Jack
To: Doane, Margaret; Mamish, Nader
Sent: Wed Mar 30 09:25:14 2011
Subject: Dr. Gale

Dr. Robert Gale is in Tokyo. He is reportedly advising the Japanese government (Prime Minister's office) on radiation protection-related issues. He has reportedly suggested to the Prime Minister that a small group of prominent Japanese scientists be pulled together to be the interface between the detailed radiation data being derived from the event and the Japanese public (as in, need someone to translate detailed technical jargon into plain language that the Japanese people can understand).

It's not clear whether he's embedded in the Prime Minister's office or whether he's a consultant with periodic access.

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 9:31 AM
To: 'TEMAGETTE@energysolutions.com'
Cc: 'FarrDM@INPO.org'
Subject: Re: Fukushima Daiigi Support

Tom

I spoke with Dave Farr at INPO last night and told him of your offer of assistance. INPO is coordinating some industry efforts.

You may have already spoken with INPO. Also I had sent the message to others in NRC.

Regards,
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Thomas Magette <TEMAGETTE@energysolutions.com>
To: Doane, Margaret
Sent: Tue Mar 15 10:16:26 2011
Subject: Fukushima Daiigi Support

Margie:

I understand that TEPCO officials have asked the NRC for assistance regarding water processing. Without knowing details and recognizing that water clean-up may be a ways down the priority list given what is happening, I am offering assistance from *EnergySolutions* if and when that would be appropriate. Liquid waste processing is a core strength of ours and is a service we provide in over 50 domestic nuclear power plants. We are prepared to offer technical assistance in the form of expertise or equipment if asked.

Please feel free to pass this message along or contact me if we can help.

Tom

Thomas E. Magette, P.E.
Senior Vice President
Nuclear Regulatory Strategy
EnergySolutions
Washington, DC

(240) 565-6148 - Columbia Ofc

(b)(6) - Cell

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 8:53 AM
To: Henderson, Karen
Cc: Mamish, Nader; Croston, Sean; Hirsch, Patricia; Rothschild, Trip; Skeen, David; Mamish, Nader
Subject: Fw: Guidance for Withholding informatin from Japan

Karen,

I left you a voice mail on this issue. We need to get guidance to staff ASAP. As it will be part legal, part policy, I think OGC gave it back to us to communicate. But please check with them. I've copied Trip, Patricia, and Sean on this note. Can you make sure something is put together that explains to staff:

- 1) Our NRC agency to agency information exchange Arrangements obligate us to hold information in the same manner as the originating countries would hold the information
- 2) The exchange arrangements expressly state that we will comply with the commitments in the arrangement to the extent allowed under the law. Exchange arrangements are not law, as they are not ratified, like treaties.
- 3) For example, FOIA trumps an exchange arrangement. If information received from a foreign counterpart under our Arrangement cannot be legally withheld under FOIA, we would have to disclose it.
- 4) To meet our obligations under the exchange Arrangement we need to be sure that we can withhold the information under FOIA. We should not accept any documents from our foreign counterparts to be held in confidence without making the determination that we can under the law, withhold it. Otherwise we will be in non-compliance with our exchange Arrangement.
- 5) OGC has concluded that FOIA "exemption 4 will probably provide plenty of protection for whatever information Japan/TEPCO would like to keep confidential regarding the situation at the Fukushima reactors." (For rationaille, see below). Sean Croston is the OGC contact.
- 6) If staff is receiving in confidence technical information from foreign counterparts other than Japan in the course of this event, e.g., UK, we need to have OGC consider whether that information also can be withheld under FOIA.
- 6) Documents should be properly marked once received and prior to disseminating.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Hirsch, Patricia
To: Rothschild, Trip; Doane, Margaret
Sent: Mon Mar 28 12:05:41 2011
Subject: FW: Guidance for Withholding informatin from Japan

Sean's email below spells out our analysis

Pat Hirsch
Assistant General Counsel for Legal Counsel,
Legislation and Special Projects
Mail Stop O-15 D21
301-415-0563

From: Croston, Sean
Sent: Monday, March 28, 2011 11:01 AM
To: Hirsch, Patricia; Suttentberg, Jeremy; Holzle, Catherine
Subject: RE: Guidance for Withholding informatin from Japan

(b)(5)

From: Hirsch, Patricia
Sent: Monday, March 28, 2011 10:44 AM
To: Croston, Sean; Suttenger, Jeremy; Holzle, Catherine
Subject: RE: Guidance for Withholding informatin from Japan

(b)(5)

Pat Hirsch
Assistant General Counsel for Legal Counsel,
Legislation and Special Projects
Mail Stop O-15 D21
301-415-0563

From: Croston, Sean
Sent: Monday, March 28, 2011 8:42 AM
To: Hirsch, Patricia; Suttenger, Jeremy; Holzle, Catherine
Subject: RE: Guidance for Withholding informatin from Japan

(b)(5)

(b)(5)

Sean Croston
Attorney
U.S. Nuclear Regulatory Commission
Office of the General Counsel
Mail Stop O15-D21
Washington, DC 20555
(301) 415-2585

~~NOTICE: This email and any attachments may contain confidential Attorney-Client or Attorney Work Product material. Do not disclose outside NRC without Commission approval.~~

From: Hirsch, Patricia
Sent: Sunday, March 27, 2011 10:57 AM
To: Croston, Sean; Suttenger, Jeremy; Holzle, Catherine
Subject: FW: Guidance for Withholding informatin from Japan

maybe we can talk early monday about how to respond ti this

From: Doane, Margaret
Sent: Saturday, March 26, 2011 2:49 PM
To: Burns, Stephen
Cc: Virgilio, Martin; Weber, Michael; Rothschild, Trip; Hirsch, Patricia
Subject: Guidance for Withholding informatin from Japan

Steve.

(b)(5)

Thanks,
Margie

From: Doane, Margaret
Sent: Wednesday, March 30, 2011 7:49 AM
To: Grobe, Jack
Subject: Re: Topics to be discussed in CGs with respect to Fukushima accident

Excellent. Thanks Jack.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Borchardt, Bill
To: Grobe, Jack
Cc: Doane, Margaret; Skeen, David; Rodriguez, Veronica
Sent: Wed Mar 30 07:43:23 2011
Subject: RE: Topics to be discussed in CGs with respect to Fukushima accident

Thanks Jack. I agree with your suggestion.

From: Grobe, Jack
Sent: Wednesday, March 30, 2011 7:32 AM
To: Borchardt, Bill
Cc: Doane, Margaret; Skeen, David; Rodriguez, Veronica
Subject: FW: Topics to be discussed in CGs with respect to Fukushima accident

Bill,

(b)(5)

Thanks for your consideration.

jack

Sent: Tue Mar 29 13:13:20 2011

Subject: Topics to be discussed in CGs with respect to Fukushima accident

Dear Colleagues,

Regarding the Fukushima nuclear accident discussions during the Country Group Sessions, President LI requested to inform you of the following list of topics that you may wish to expand and address:

- NPP design against external events;
- Offsite response to emergency situations (eg: station blackout);
- Emergency management actions and preparedness following worst case accident scenarios;
- Safety consideration for operation of multi units at the same NPP site;
- Cooling of spent fuel storage in severe accident scenarios;
- Training of NPP operators for severe accident scenarios;
- Radiological monitoring following NPP accident involving radiological releases;
- Public protection emergency actions;
- Communications in emergency situations

In addition the regulatory actions, taken or planned by Contracting Parties could also be discussed.

Best regards

Miroslav

Miroslav Svab
Acting Scientific Secretary of CNS
Regulatory Activities Section - NSNI
Phone: (00-431) 2600-26629
e-mail: m.svab@iaea.org

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From: Doane, Margaret
Sent: Wednesday, March 30, 2011 7:13 AM
To: Mamish, Nader
Subject: Re: ACTION:: nominations for the NEA high level task group on Fukushima
Attachments: image001.gif

Yes. It's wrapped up in other issues.

Sent from an NRC Blackberry
Margaret Doane

From: Mamish, Nader
To: Doane, Margaret
Sent: Wed Mar 30 06:54:12 2011
Subject: FW: ACTION:: nominations for the NEA high level task group on Fukushima

We can talk later today if you'd like ...

From: Wiggins, Jim
Sent: Tuesday, March 29, 2011 5:01 PM
To: Leeds, Eric; Sheron, Brian; Mamish, Nader; Miller, Charles
Cc: Virgilio, Martin; Weber, Michael
Subject: Fw: ACTION:: nominations for the NEA high level task group on Fukushima

(b)(6)

Presume you're aware that IAEA is also planning a high level mtg in the June timeframe on the same general issue.

(b)(5)

Thoughts???

From: Evans, Michele
To: Wiggins, Jim
Sent: Tue Mar 29 16:41:54 2011
Subject: FW: ACTION:: nominations for the NEA high level task group on Fukushima

(b)(6)

From: Cheok, Michael
Sent: Tuesday, March 29, 2011 2:06 PM
To: Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Galloway, Melanie; Giitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert;

Quay, Theodore; Ruland, William; Skeen, David; Westreich, Barry; Thomas, Brian
Cc: Silk, Anne
Subject: FW: ACTION:: nominations for the NEA high level task group on Fukushima

As discussed at the LT meeting this morning, the ET is looking for nominees from the LT for the NEA task group evaluating lessons-learned from the Fukushima event. The nominees should be a NRR SES. The initial meeting for this NEA group is likely to be in May in Paris. See attached for more details. This NRC representative would obviously be working with our NRC Near Term task group (Charlie, Jack Gary) to trade lessons-learned etc.

The LT decision this morning was for each LT member to indicate interest (i.e., self nominate) to me (via e-mail by next Monday, 4/4), and I will compile the names for the LT to determine a list of 3 people to forward to the ET. We will do this during the Tuesday (4/5) LT meeting (Anne – please put this on the schedule). Eric would like to get the nominees by mid next week.

Thanks

From: Leeds, Eric
Sent: Tuesday, March 29, 2011 7:48 AM
To: Cheok, Michael
Cc: Ruland, William; Grobe, Jack; Boger, Bruce; Virgilio, Martin; Miller, Charles; Johnson, Michael; Astwood, Heather; Rosales-Cooper, Cindy; Cullingford, Michael
Subject: ACTION:: CNRA conference call notes and actions

Mike –

As Chair of the LT, please see the attachment for the assignment that we discussed yesterday. As we discussed, I'd like a member of the expanded LT to be a key contributor to the international NEA task group evaluating the impact of the Fukushima event. I'll look forward to receiving the names of potential candidates.

Thanks!

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]
Sent: Tuesday, March 29, 2011 4:41 AM
To: greg.rzentkowski@cnsccsn.gc.ca; jean-christophe.niel@asn.fr; nakamura-koichiro1@meti.go.jp; adeline.clos@asn.fr; Cullingford, Michael; Astwood, Heather; mike.weightman@hse.gsi.gov.uk; michael.hertrich@bmu.bund.de; ohmura-tetsuo@meti.go.jp; len.creswell@hse.gsi.gov.uk; marta.ziakova@ujd.gov.sk; Leeds, Eric; Johnson, Michael
Subject: CNRA conference call notes and actions

Dear CNRA bureau members –

The CNRA Chair and Vice-chairs held a conference call yesterday evening to discuss CNRA actions in response to the Fukushima events. Please find attached the notes and actions from the conference call. Comments are always welcome.

Best,



Diane Jackson, Nuclear Safety Specialist
Nuclear Safety Division, OECD Nuclear Energy Agency (NEA)
Tel.: +33 (0)1 45 24 10 55, Diane.Jackson@oecd.org

From: Doane, Margaret
Sent: Tuesday, March 29, 2011 7:35 PM
To: Smirolfo, Elizabeth
Cc: Abrams, Charlotte
Subject: Re: Letter to Andre-Claude Lacoste from Chm. Jaczko and Chm. Kutin

(b)(5)

Sent from an NRC Blackberry
Margaret Doane

From: Smirolfo, Elizabeth
To: Doane, Margaret
Cc: Abrams, Charlotte
Sent: Tue Mar 29 19:18:55 2011
Subject: RE: Letter to Andre-Claude Lacoste from Chm. Jaczko and Chm. Kutin

(b)(5)

Thanks,
Elizabeth

From: Doane, Margaret
Sent: Tuesday, March 29, 2011 7:09 PM
To: Smirolfo, Elizabeth
Cc: Abrams, Charlotte
Subject: RE: Letter to Andre-Claude Lacoste from Chm. Jaczko and Chm. Kutin

(b)(5)

Margie

From: Smirolfo, Elizabeth
Sent: Tuesday, March 29, 2011 6:51 PM
To: Doane, Margaret

Cc: Abrams, Charlotte

Subject: FW: Letter to Andre-Claude Lacoste from Chm. Jaczko and Chm. Kutin

Hi, Margie,

(b)(5)

Thanks,
Elizabeth

PS—My contact from the State Dept will hopefully have some USG Chornobyl anniversary attendee names for me tomorrow.

From: Doane, Margaret

Sent: Monday, March 21, 2011 1:05 PM

To: Pace, Patti; Warren, Roberta

Cc: Abrams, Charlotte; Smirollo, Elizabeth

Subject: RE: Letter to Andre-Claude Lacoste from Chm. Jaczko and Chm. Kutin

Elizabeth, Patti and Bobbi,

(b)(5)

Margie

From: Smirollo, Elizabeth

Sent: Monday, March 21, 2011 9:57 AM

To: Pace, Patti; Warren, Roberta

Cc: Doane, Margaret; Abrams, Charlotte

Subject: Letter to Andre-Claude Lacoste from Chm. Jaczko and Chm. Kutin

Hello, Patti and Bobbi,

(b)(5)

Many thanks for your assistance! I know how busy everyone is at this time and appreciate your attention to this request.

Best regards,
Elizabeth

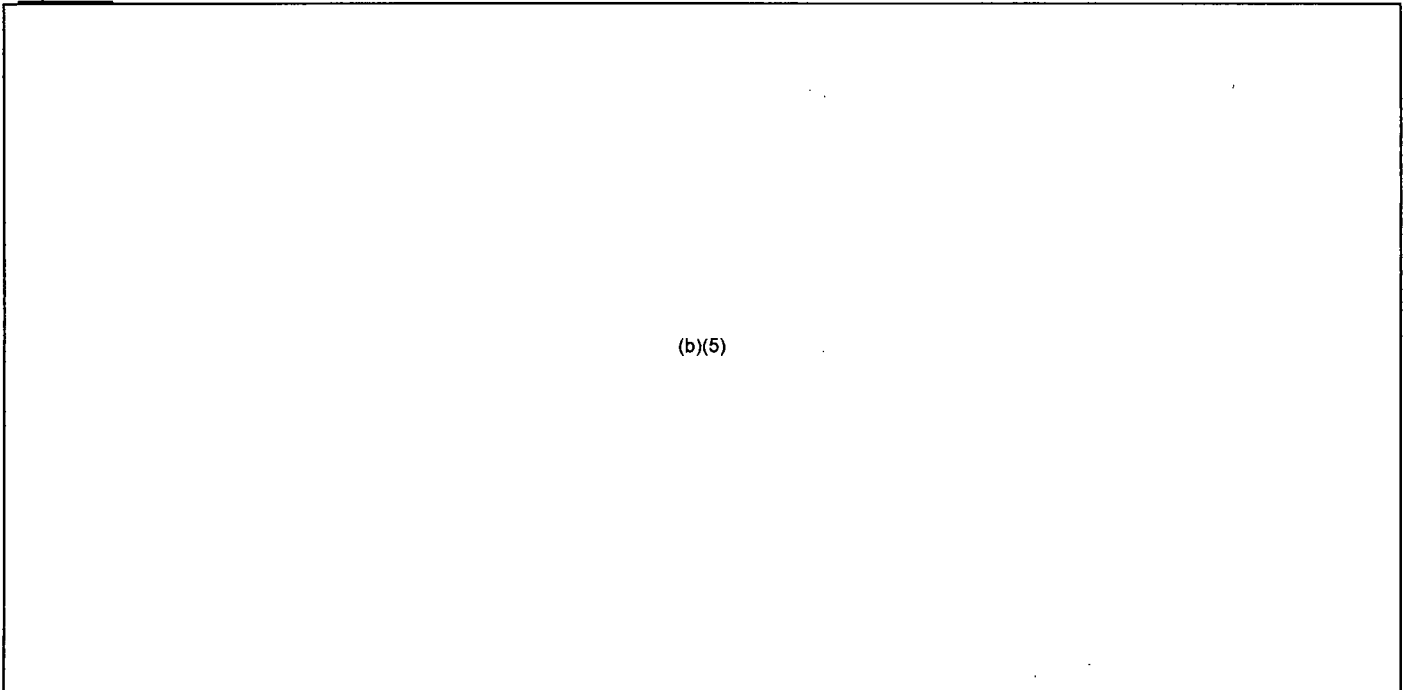
Elizabeth Smiroldo
International Relations Officer
Office of International Programs
US Nuclear Regulatory Commission
Washington, DC 20555
Office: 301-415-3821
Cell:

(b)(6)

From: Doane, Margaret
Sent: Tuesday, March 29, 2011 6:40 PM
To: Grobe, Jack
Subject: RE: Topics to be discussed in CGs with respect to Fukushima accident

Jack, here are two options. Dave is working tonight at the Ops Ctr. I think, so you may be able to catch him late tonight or very early in the morning.

Options



I hope this helps,
Margie

From: M.Swab@iaea.org [mailto:M.Swab@iaea.org]
Sent: Tuesday, March 29, 2011 4:00 PM
To: Borchardt, Bill
Cc: Rodriguez, Veronica; Doane, Margaret
Subject: RE: Topics to be discussed in CGs with respect to Fukushima accident

Bill, thank you for confirmation.

I already announced the meeting to Conference Services. They said "no problem with additional meeting on Sunday morning".

I'll inform you about the exact time when the badges will be available.

I have just received request from Marie-Pierre to postpone the meeting (she is arriving at 9:15), to start at 11:00. Dou you think that we can manage the to conclude meeting within 1.5 hour, than have 1.5 hour lunch break and start at 14:00 with Officers' Meeting ?

Thank you very much.

Best regards
Miroslav

From: Bill.Borchardt@nrc.gov [mailto:Bill.Borchardt@nrc.gov]
Sent: Tuesday, 29 March 2011 21:15
To: SVAB, Miroslav
Cc: Rodriguez, Veronica; Doane, Margaret
Subject: RE: Topics to be discussed in CGs with respect to Fukushima accident

Thank you Miroslav. I will attend.

One logistical question. Will we be able to get badged by IAEA Security before the 10:00 Sunday meeting?

Best Regards,
Bill

From: M.Svab@iaea.org [mailto:M.Svab@iaea.org]
Sent: Tuesday, March 29, 2011 3:10 PM
To: nnsalgj@sina.com; Borchardt, Bill; patrick.majerus@ms.etat.lu; albert.frischknecht@ensi.ch; jukka.laaksonen@stuk.fi; lennart.carlsson@ssm.se; marie-pierre.comets@asn.fr; hirano.masashi@jaea.go.jp; asmolov@nsi.kiae.ru
Cc: D.Flory@iaea.org; J.Lyons@iaea.org; G.Caruso@iaea.org; L.Lederman@iaea.org
Subject: FW: Topics to be discussed in CGs with respect to Fukushima accident

Dear General Committee Member,

Following a proposal from Vice President Patrick Majerus I like to invite you to the meeting of GCMs that will be held Sunday 3rd April, 10:00 a.m., meeting room M6, to discuss the attached e-mail and how to address these topics and in more general character Fukushima accident.

Best regards
Miroslav

From: SVAB, Miroslav
Sent: Tuesday, 29 March 2011 19:13
To: 'rnavarro@arn.gob.ar'; 'a.melkumyan@anra.am'; 'david.tredinnick@arpansa.gov.au'; 'nuklearkoordination@bmlfuw.gv.at'; '(b)(6)'; 'safeatom@infonet.by'; 'thierry.maldague@fanc.fgov.be'; 'almeida@cnen.gov.br'; 'A.Rogatchev@bnsa.bas.bg'; 'Brian.Gracie@cncs-ccsn.gc.ca'; 'mlichtem@cchen.cl'; 'jiangwei@sepa.gov.cn'; 'sasa.medakovic@dzns.hr'; 'pdemetriades@dli.mlsi.gov.cy'; 'tomas.kaderabek@sujb.cz'; 'vbp@brs.dk'; 'Karin.Muru@keskkonnaamet.ee'; 'Santiago-Rafael.Martinez-Iglesias@ec.europa.eu'; 'pekka.salminen@stuk.fi'; 'jorge.tirira@asn.fr'; 'hklonk@bfs.de'; 'domis@eng.auth.gr'; 'vigh@haea.gov.hu'; 'smm@gr.is'; 'skchande@aerb.gov.in'; 'k.huda@bapeten.go.id'; 'Kevin.O'Donoghue@environ.ie'; 'roberto.ranieri@isprambiente.it'; 'noda-tomoki@meti.go.jp'; 'srpark@kins.re.kr'; 'ssyy1@hotmail.com'; 'andrejs.salmins@rdc.vvd.gov.lv'; 'bnsouli@cnsr.edu.lb'; 'semenas@vatesi.lt'; 'INIS LO - Luxembourg'; 'paul.brejza@gov.mt'; 'vmgonzalez@cnsns.gob.mx'; 'DutchNCP@minvrom.nl'; 'ogharandukun@gmail.com'; 'sverre.hornkjol@nrpa.no'; 'r.hammad@pnra.org'; 'rramirez@ipen.gob.pe'; 'szymko@paa.gov.pl'; 'soaresjc@itn1.itn.pt'; 'Ionel.balan@anranr.gov.md'; 'Lucian.biro@cncan.ro'; 'aaerastov@rosatom.ru'; 'moustall@refer.sn'; 'koh_kim_hock@nea.gov.sg'; 'Mikulas.Turner@ujd.gov.sk'; 'igor.grlicarev@gov.si'; 'gclapiss@nncr.co.za'; 'ivd@csn.es'; 'chairman@aea.ac.lk'; 'anders.hallman@ssm.se'; 'Claudia.Humbel@ensi.ch'; 'Svetlana.Nestoroska@drs.gov.mk'; 'a.riahi@cnsn.rnrt.tn'; 'alierkan.soyer@taek.gov.tr'; 'zeniuk@hq.snrc.gov.ua'; 'christer.viktorsson@fanr.gov.ae'; 'Peter.Addison@hse.gsi.gov.uk'; 'kenagywd@state.gov'; 'walter.cabral@amr.miem.gub.uy'; 'lcdung@varans.vn'
Cc: 'Adorjan@haea.gov.hu'; 'asmolov@nsi.kiae.ru'; 'lucian.biro@cncan.ro'; 'Bill.Borchardt@nrc.gov'; 'lennart.carlsson@ssm.se'; 'marie-pierre.comets@asn.fr'; '(b)(6)'; 'Jack.Grobe@nrc.gov';

'hirano.masashi@jaea.go.jp'; 'kudo-fumio@jnes.go.jp'; 'sakamoto-kazunobu@jnes.go.jp'; 'kharlam-sa@rosenergoatom.ru'; 'pkhot@npcil.co.in'; 'hklonk@bfs.de'; INIS LO - Luxembourg; 'Mzmsebenzi@nnr.co.za'; 'soaresjc@cii.fc.ul.pt'; 'Mikulas.Turner@ujd.gov.sk'; 'cgv@csn.es'; 'michel.asty@wanadoo.fr'; 'marcel.maris@belv.be'; 'rob.campbell@hse.gsi.gov.uk'; 'kimhj@kins.re.kr'; 'a.mannan@pnra.org'; 'jukka.laaksonen@stuk.fi'; 'albert.frischknecht@ensi.ch'; 'tryan@rpii.ie'; 'nnsalgj@sina.com'; 'jiangwei@sepa.gov.cn'; 'sakamoto-kazunobu@jnes.go.jp'; CARUSO, Gustavo; LEDERMAN, Luis; peng.jun@mep.gov.cn; atom7@pmchina.at

Subject: Topics to be discussed in CGs with respect to Fukushima accident

Dear Colleagues,

Regarding the Fukushima nuclear accident discussions during the Country Group Sessions, President LI requested to inform you of the following list of topics that you may wish to expand and address:

- NPP design against external events;
- Offsite response to emergency situations (eg: station blackout);
- Emergency management actions and preparedness following worst case accident scenarios;
- Safety consideration for operation of multi units at the same NPP site;
- Cooling of spent fuel storage in severe accident scenarios;
- Training of NPP operators for severe accident scenarios;
- Radiological monitoring following NPP accident involving radiological releases;
- Public protection emergency actions;
- Communications in emergency situations

In addition the regulatory actions, taken or planned by Contracting Parties could also be discussed.

Best regards

Miroslav

Miroslav Svab
Acting Scientific Secretary of CNS
Regulatory Activities Section - NSNI
Phone: (00-431) 2600-26629
e-mail: m.svab@iaea.org

From: Doane, Margaret
Sent: Tuesday, March 29, 2011 1:31 PM
To: LIA02 Hoc; Mamish, Nader
Subject: RE: Final Reentry Guidance

Jill,
Thanks for the awareness. Please forward as instructed.
Margie

From: LIA02 Hoc
Sent: Tuesday, March 29, 2011 9:19 AM
To: Doane, Margaret; Mamish, Nader
Subject: FW: Final Reentry Guidance

Margie,

We have been instructed to forward this to the team in Japan, including the Ambassador. It has been cleared by the NSC. We just wanted to make you aware of it. Thanks,

LIA02 (Jill Shepherd)

From: LIA11 Hoc
Sent: Tuesday, March 29, 2011 9:13 AM
To: LIA02 Hoc; LIA03 Hoc
Cc: LIA11 Hoc; LIA08 Hoc; LIA06 Hoc
Subject: FW: Final Reentry Guidance

Can you please transmit the attached document to the embassy Tokyo (NRC Site team and the Ambassador), per email below from Julie Bentz.

Thanks

Susan

From: LIA01 Hoc
Sent: Tuesday, March 29, 2011 9:00 AM
To: Bentz, Julie A.
Cc: Virgilio, Martin; Weber, Michael; ET05 Hoc; LIA08 Hoc; LIA06 Hoc; Bowman, Gregory; #RESILIENCE; Zerr, Thomas J.; Fetter, Steve; Szymanski, John; Holdren, John P.; Russel, Daniel R.; Lowry, Keri M.; Bader, Jeffrey A.; LIA08 Hoc; LIA06 Hoc; LIA11 Hoc
Subject: RE: Final Reentry Guidance

Thank you

From: Bentz, Julie A. [mailto:(b)(6)]
Sent: Tuesday, March 29, 2011 8:45 AM
To: LIA01 Hoc

Cc: Virgilio, Martin; Weber, Michael; ET05 Hoc; LIA08 Hoc; LIA06 Hoc; Bowman, Gregory; #RESILIENCE; Zerr, Thomas J.; Fetter, Steve; Szymanski, John; Holdren, John P.; Russel, Daniel R.; Lowry, Keri M.; Bader, Jeffrey A.
Subject: RE: Final Reentry Guidance

J, Go ahead send the reentry guidance directly to embassy Tokyo (NRC Site team and the Ambassador).

Thanks!
Julie

From: LIA01 Hoc [mailto:LIA01.Hoc@nrc.gov]
Sent: Tuesday, March 29, 2011 8:22 AM
To: Bentz, Julie A.; Reed, Richard A.
Subject: FW: Final Reentry Guidance

Julie / Richard

Any follow-up to the attached Re-Entry Guidance document? Can the document be pushed out for use by in-country staff?

J. Hale
NRC Incident Response Center

From: LIA01 Hoc
Sent: Monday, March 28, 2011 9:15 PM
To: 'Bentz, Julie A.'
Cc: Virgilio, Martin; Weber, Michael; ET05 Hoc; LIA08 Hoc; LIA06 Hoc; Bowman, Gregory
Subject: FW: Final Reentry Guidance

Ms. Bentz-
Could you please advise on your expectations for our next steps with this Re-Entry Guidance?
We are seeking clarification/guidance regarding sharing the reentry criteria with the NRC Site team in Japan and the Ambassador.
Thank you for your attention to this request-
Lisa

Lisa Gibney Wright
Federal Liaison Desk Officer
US Nuclear Regulatory Commission
Desk PH: 301-816-5186

From: LIA01 Hoc
Sent: Monday, March 28, 2011 5:11 AM
To: 'Bentz, Julie A.'
Cc: Hoc, PMT12
Subject: FW: Final Reentry Guidance

Please find attached the NRC's final reentry guidance. EPA's comments have been incorporated. Please don't hesitate to contact us if you have any questions.

NRC Operations Center

From: PMT09 Hoc
Sent: Monday, March 28, 2011 5:03 AM
To: LIA01 Hoc
Subject: Final Reentry Guidance

Attached is the Reentry Guidance with consideration for EPA's comments.

From: Doane, Margaret
Sent: Tuesday, March 29, 2011 12:14 PM
To: 'Shaffer, Mark R'; Rodriguez, Veronica; Jones, Andrea; Schwartzman, Jennifer
Subject: FW: Referral from Rep. Shimkus' office, Deputy to the Lithuanian Ambassador
Attachments: image001.gif

Importance: High

FYI message from Shimkus re: Lithuania

(b)(5)

From: Powell, Amy
Sent: Tuesday, March 29, 2011 12:02 PM
To: Doane, Margaret
Cc: Schmidt, Rebecca
Subject: Referral from Rep. Shimkus' office, Deputy to the Lithuanian Ambassador
Importance: High

Margie –

Please see the e-mail below. Per our chat, the Deputy to the Lithuanian Ambassador got my name from Mr. Shimkus' staff. Here is the resulting e-mail...

Amy

Amy Powell
Associate Director
U. S. Nuclear Regulatory Commission
Office of Congressional Affairs
Phone: 301-415-1673

From: Simonas ŠATŪNAS [mailto:Simonas.SATUNAS@urm.lt]
Sent: Tuesday, March 29, 2011 11:52 AM
To: Powell, Amy
Cc: Žygimantas PAVILIONIS
Subject: Urgent contact and request from Lithuanian Embassy -- Convention on Nuclear Safety -- Belarus
Importance: High

Dear Mrs. Powell,

I am Simonas Satunas, a deputy to Lithuanian ambassador in DC. We got your contact from Rep. Shimkus office and his close advisor. Rep. Shimkus is our close friend and a head of the Baltic Caucus at the US Congress.

(b)(4)

(b)(4)

In the light of the tragic event in Japan, we are very much concerned (b)(4)
(b)(4)

Next week (April 4-14th) an annual review conference of Convention of Nuclear Safety will take place in Vienna. US will be represented by a numerous delegation. I met people at US State department who will be going to Vienna and I am planning to have an expert level meeting at NRC today. (b)(4)
(b)(4)

I would appreciate your help in putting in contact with senior NRC leadership who will be going to Vienna for the review conference and helping to set up a very short meeting with senior people from NRC who will be leading the delegation. As it stands now Mr. William Borchardt will lead US delegation, but given the short notice and events in Japan, I assume it will not possible to have a short meeting with him for me or ambassador, but maybe we could have a very short teleconference with his deputies or whoever you think would be appropriate (b)(4)
(b)(4)

Please let me know and I am coming for the expert level meeting today to NRC, but may be it would be a chance to have the other meetings as well.

My cell number is (b)(6) and I could be reached while I am on the way.

Many thanks and sorry for short notice.

Simonas

Simonas Satunas
Deputy Chief of Mission
Embassy of the Republic of Lithuania
2622 16th Street NW, Washington DC, 20009
phone: (202) 234 5860 ext. 128
fax: (202) 328 0466



From: Doane, Margaret
Sent: Tuesday, March 29, 2011 9:29 AM
To: Schwartzman, Jennifer
Subject: FW: BLOOMBERG: CONVENTION-NUCLEAR-SAFETY

-----Original Message-----

From: Skeen, David
Sent: Tuesday, March 29, 2011 9:25 AM
To: Borchardt, Bill; Doane, Margaret
Cc: Brenner, Eliot
Subject: RE: BLOOMBERG: CONVENTION-NUCLEAR-SAFETY

I agree.

Eliot, are you in touch with IAEA public affairs folks? If so, you may want to discuss with them.

I'm also wondering if the Chairman may be asked similar questions while he is in Vienna. If so, we should prepare some talking points for him.

-----Original Message-----

From: Borchardt, Bill
Sent: Tuesday, March 29, 2011 9:10 AM
To: Doane, Margaret; Skeen, David
Cc: Brenner, Eliot
Subject: Fw: BLOOMBERG: CONVENTION-NUCLEAR-SAFETY

I don't intend to reply. Probably more appropriate for IAEA legal staff to draft a response for Li Ganjie.
Bill Borchardt
Via blackberry

----- Original Message -----

From: JONATHAN TIRONE, BLOOMBERG/ NEWSROOM: <jtirone@bloomberg.net>
To: Borchardt, Bill
Sent: Tue Mar 29 08:12:48 2011
Subject: BLOOMBERG: CONVENTION-NUCLEAR-SAFETY

Dear Mr. Borchardt,

My name is Jonathan Tirone and I'm a journalist with Bloomberg News covering the IAEA in Vienna. We are writing about next week's Convention on Nuclear Safety meeting and want to ask a few questions before the April 4 plenary begins.

As you are undoubtedly aware, public interest in nuclear safety is at heights not seen since the Chernobyl era, when the CNS was born. It would seem that one of the early lessons that can be drawn from the Fukushima incident, where tsunami risk assessments were overlooked, is that nuclear safety could benefit from more public and peer review.

We'd appreciate your input in helping our readers to understand this issue by taking the time to answer the following questions:

1. Why does Article 27 of the convention insist that "The content of the debates during the reviewing of the reports by the Contracting Parties at each meeting shall be confidential?"
2. What is the IAEA's role in regard to the Convention? What can it do in its role as Secretariat?
3. Would the CNS be the appropriate forum to strengthen international nuclear safety in the wake of Fukushima? What are the limitations and advantages?

Thanks again for your consideration of my questions. I'm available by telephone if you'd prefer to talk.

With Kind Regards,

>> Jonathan Tirone, MALD

>> Bloomberg News

>> Kaerntner Ring 9-13

>> Palais Corso 6

>> 1010 Wien, Austria, EU

>> e-mail: jtirone@bloomberg.net

>> o: +431 513 266 025

>> m: (b)(6)

From: Doane, Margaret
Sent: Tuesday, March 29, 2011 9:29 AM
To: 'Shaffer, Mark R'
Subject: FW: Topics to be discussed in CGs with respect to Fukushima accident

From: Skeen, David
Sent: Tuesday, March 29, 2011 9:22 AM
To: Rodriguez, Veronica; Doane, Margaret; Borchardt, Bill
Subject: RE: Topics to be discussed in CGs with respect to Fukushima accident

(b)(5)

From: Rodriguez, Veronica
Sent: Tuesday, March 29, 2011 9:09 AM
To: Doane, Margaret; Skeen, David; Borchardt, Bill
Subject: RE: Topics to be discussed in CGs with respect to Fukushima accident

(b)(5)

From: Doane, Margaret
Sent: Tuesday, March 29, 2011 8:59 AM
To: Skeen, David; Borchardt, Bill
Cc: Rodriguez, Veronica
Subject: RE: Topics to be discussed in CGs with respect to Fukushima accident

(b)(5)

From: Skeen, David
Sent: Tuesday, March 29, 2011 8:28 AM
To: Borchardt, Bill
Cc: Doane, Margaret; Rodriguez, Veronica
Subject: FW: Topics to be discussed in CGs with respect to Fukushima accident

FYI - Just talked to Miroslav.

Since he has Li Ganjie's and Patrick Majerus' approval, I told him to go ahead and get the proposed topics in his e-mail to the CPs ASAP. We can discuss more at the General Committee meeting now scheduled for 10:00 am on Sunday morning April 3.

Veronica – we need to make sure our discussion of our National Report covers the topics.

From: M.Svab@iaea.org [mailto:M.Svab@iaea.org]
Sent: Tuesday, March 29, 2011 5:52 AM
To: Skeen, David
Cc: Borchardt, Bill; G.Caruso@iaea.org; L.Lederman@iaea.org
Subject: RE: Topics to be discussed in CGs with respect to Fukushima accident

Dave,

The meeting will not be a part of RM. DG Amano said yesterday it should be open to all MSs of the IAEA. The IAEA Secretariat decides who will chair the meeting.

May I call you to the office ? I would appreciate ASAP (I go to lunch, I'll be back within 1 hour) .

Regards
Miroslav

From: Skeen, David [mailto:David.Skeen@nrc.gov]
Sent: Tuesday, 29 March 2011 11:31
To: SVAB, Miroslav
Cc: Borchardt, Bill
Subject: Re: Topics to be discussed in CGs with respect to Fukushima accident

Miroslav,

Thanks for sharing.

If Li is not chairing the meeting on Monday evening, what do you propose?

If it is being held as part of the RM, perhaps the CG Chair for Japan should chair the meeting.

As an alternative, Mr. Li could delegate to one of the VPs (perhaps Patrick could do it?)

If not part of the CNS, who should chair the side meeting?

Your thoughts?

I'll try to touch base this morning.

From: M.Svab@iaea.org <M.Svab@iaea.org>
To: hklonk@bfs.de <hklonk@bfs.de>
Cc: Borchardt, Bill; patrick.majerus@ms.etat.lu <patrick.majerus@ms.etat.lu>; D.Flory@iaea.org <D.Flory@iaea.org>; J.Lyons@iaea.org <J.Lyons@iaea.org>; Skeen, David
Sent: Tue Mar 29 03:38:46 2011
Subject: FW: Topics to be discussed in CGs with respect to Fukushima accident

Dear Hartmut,

Chinese Colleagues asked me to forward you President's Li response to your proposal (see e-mail below).

Best regards
Miroslav

Note: Mr. Jun PENG is Deputy Director of Division of International Cooperation, NNSA

From: peng.jun@mep.gov.cn [mailto:peng.jun@mep.gov.cn]
Sent: Tuesday, 29 March 2011 08:06
To: SVAB, Miroslav
Cc: CARUSO, Gustavo; atom7
Subject: Re: Topics to be discussed in CGs with respect to Fukushima accident

Dear Mr. Svab,

Outside of Scope

Regarding the Fukushima nuclear accident discussion during the CG and the topics for reference, President LI also agreed the secretary's suggestion.

yours Truly,

Jun PENG

-----原始邮件-----
发件人: M.Svab@iaea.org

发送时间: 2011-03-29 01:20:29

收件人: peng.jun@mep.gov.cn

抄送: G.Caruso@iaea.org,L.Lederman@iaea.org

主题: Topics to be discussed in CGs with respect to Fukushima accident

Dear Gang,

Following our meeting this afternoon, please, find examples of topics which may be discussed in Country Groups relevant to Fukushima accident:

- NPP design against external events;
- Offsite response to emergency situations (eg: station blackout);
- Emergency management actions and preparedness following worst case accident scenarios;
- Safety consideration for operation of multi units at the same NPP site;
- Cooling of spent fuel storage in severe accident scenarios;
- Training of NPP operators for severe accident scenarios;
- Radiological monitoring following NPP accident involving radiological releases;
- Public protection emergency actions;
- Communications in emergency situations

President Li may want to ask CGs' Chairs to expand this list and bring it to the attention of CPs. Please, let me know President Li's comments and if I can be of any help in transmitting the topics to the CGs' Chairs.

Best regards

Miro

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From: Doane, Margaret
Sent: Tuesday, March 29, 2011 9:16 AM
To: Jones, Andrea; Emche, Danielle; Stahl, Eric
Cc: Foggie, Kirk; Abrams, Charlotte; Schwartzman, Jennifer
Subject: RE: CNS Meeting w/Japn?

Let's let Japan and IAEA handle this. What do you guys think?

From: Jones, Andrea
Sent: Monday, March 28, 2011 7:05 PM
To: Emche, Danielle; Stahl, Eric
Cc: Foggie, Kirk; Abrams, Charlotte; Schwartzman, Jennifer; Doane, Margaret
Subject: CNS Meeting w/Japn?

Danielle and Eric,

Kirk was following this before he left from Japan. Have you heard any information on who would be representing NISA at the CNS? (b)(5)

(b)(5)

Margie, do we still want to pursue meeting with NISA in Vienna in light of Chairman traveling there?

Andrea R. Jones
International Relations Officer
Office of International Programs
U.S. Nuclear Regulatory Commission
301-415-2309

From: Doane, Margaret
Sent: Monday, March 28, 2011 6:14 PM
To: Schwartzman, Jennifer
Cc: Astwood, Heather
Subject: FW: Response - DOD support

Looks like everyone is thinking the same thing.

-----Original Message-----

From: Weber, Michael
Sent: Thursday, March 24, 2011 9:21 AM
To: Haney, Catherine
Cc: Virgilio, Martin; Borchardt, Bill; Williams, Shawn; Doane, Margaret; Mamish, Nader; Frazier, Alan
Subject: Response - DOD support

Thanks, Cathy

-----Original Message-----

From: Haney, Catherine
Sent: Thursday, March 24, 2011 6:39 AM
To: Weber, Michael
Subject: Re: Response - DOD support

Japan event is big topic of conversations here. Lots of concern with ongoing event and future of nuclear. Of course this isn't surprising.

I need to pass on to Charlie the fact that NEA Secretariat is considering what role they can play in lessons learned and follow up. I suspect this will be big topic for discussion at upcoming steering committee. I will give Charlie a call when I return rather than rely on email.

Outside of Scope

----- Original Message -----

From: Weber, Michael
To: Haney, Catherine
Sent: Thu Mar 24 05:11:06 2011
Subject: Response - DOD support

Sounds fine to me. Pete will be good in this role and it will be good for Pete.

----- Original Message -----

From: Haney, Catherine

To: Weber, Michael

Sent: Thu Mar 24 03:33:37 2011

Subject: DOD support

(b)(5),(b)(6)

From: Doane, Margaret
Sent: Monday, March 28, 2011 6:11 PM
To: Smith, Wilkins
Cc: Foggie, Kirk
Subject: FW: Korean Embassy

Just in case Kirk hadn't had a chance to forward this to you.
Margie

From: 이인일 [mailto:ilee@mest.go.kr]
Sent: Thursday, March 24, 2011 10:16 AM
To: Foggie, Kirk
Cc: Doane, Margaret
Subject: Korean Embassy

Hi, Mr Foggie,

How are you? We have met at RIC 2011, but we didn't have much time to talk.

I think nuclear people including you and me have been busier after Japanese Fukushima nuclear power plant accident. I heard that US government including NRC is trying to help Japanese Government to make the reactors safe again.

I understand Korea has also supported by providing boron to Japan.

In this mid April, Korean Minister of Education, and Science and Technology Dr Ju ho Lee will visit Washington DC to strengthen education, science and technology cooperation based on US Korea strategic alliance relationship. As you know, one of the main missions of Ministry of Education, and Science and Technology is ensuring safety of nuclear power plants in Korea. Recently, MEST has reformed Bureau of Nuclear Energy into Bureau of Nuclear Safety to be more independent.

MEST has established and supported Korean Institute of Nuclear Safety. I think it will be a great opportunity if Minister Lee visit NRC and talk nuclear safety with NRC chairman H.E. Jaczko.

Currently, Minister Lee is available on 3 pm on April 12, 4 pm on April 12, and 9 am on April 15.

I do expect to hear from you soon.

Always best regards,

Inil Lee

Science Counselor, Korean Embassy
2450 Massachusetts Ave NW
Washington DC 20008

202-939-6479(o) (b)(6) (m)

From: Doane, Margaret
Sent: Monday, March 28, 2011 6:07 PM
To: 'Shaffer, Mark R'
Subject: FW: 5th Review Meeting - Proposal to modify focus and schedule

(b)(5)

Margie

From: Rodriguez, Veronica
Sent: Monday, March 28, 2011 5:28 PM
To: Borchardt, Bill
Cc: Doane, Margaret; Skeen, David
Subject: FW: 5th Review Meeting - Proposal to modify focus and schedule

Bill - for info. ASN response to Klonk's proposal.

From: Kenagy, W David [mailto:KenagyWD@state.gov]
Sent: Monday, March 28, 2011 5:10 PM
To: Rodriguez, Veronica
Cc: Fladeboe, Jan P; Metz, Patricia J
Subject: FW: 5th Review Meeting - Proposal to modify focus and schedule

From: GILLET Guillaume [mailto:Guillaume.GILLET@asn.fr]
Sent: Friday, March 18, 2011 3:10 PM
To: hklonk@bfs.de
Cc: COMETS Marie-Pierre; Peter.Addison@hse.gsi.gov.uk; Kenagy, W David; TIRIRA Jorge; Martina.Palm@bmu.bund.de
Subject: RE: 5th Review Meeting - Proposal to modify focus and schedule

Dear Mr. Klonk,

We share of course your concerns regarding the situation in Japan.
We also consider that a large place should be devoted to the situation in that country and to the means to avoid that kind of event in the future.

(b)(4)

Best regards,

Guillaume Gillet
Directeur
Direction des Relations Internationales
Autorité de Sûreté Nucléaire (ASN)
Tél : +33.1.40.19.88.41
Portable : (b)(6)

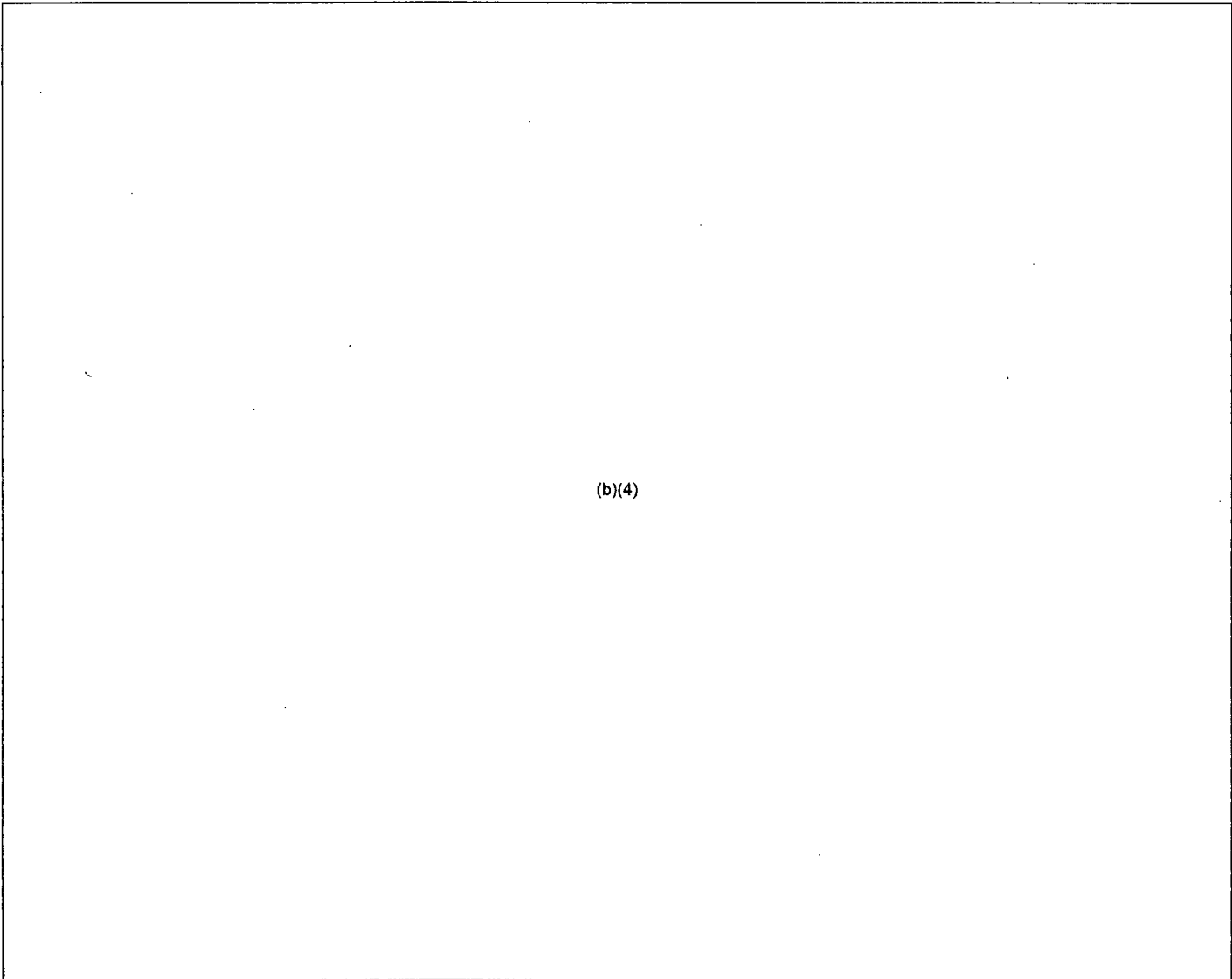
De : Hartmut Klonk [mailto:hklonk@bfs.de]
Envoyé : vendredi 18 mars 2011 12:08
À : Peter Addison; kenagywd@state.gov; TIRIRA Jorge
Objet : 5th Review Meeting - Proposal to modify focus and schedule

To the CNS Contact Points of UK, USA and France

Dear colleagues,
after the severe accidents in Japan we are currently discussing the way in which the upcoming CNS Review Meeting could be held with due regard to the situation which we all are confronted with. We have developed some ideas which may be worth to be considered. Germany is planning to raise such a proposal very shortly. To inform you and to ask you for your view on such an approach I give you our ideas as follows. Please give me your thoughts on the conduct of CNS Review Meeting.
Thank you for your consideration. I would appreciate your response on short notice.

Best regards,
Hartmut Klonk
Contact Point Germany

Proposed letter to CNS President and Vice President of the 5th Review Meeting



(b)(4)

A further proposal is submitted by Germany concerning the following (6th) Review Meeting:

(b)(4)

(b)(4)

--

Dr. Hartmut Klönk
Bundesamt für Strahlenschutz
Federal Office for Radiation Protection
Department Nuclear Safety
SK 1 International Co-operation
Postfach 10 01 49
D-38201 Salzgitter

Telephon +49 3018-333-1530
Telefax +49 3018-10-333-1530 (Fax-eMail)
Telefax +49 3018-333-1885

From: Doane, Margaret
Sent: Monday, March 28, 2011 6:01 PM
To: Schwartzman, Jennifer; Henderson, Karen
Subject: RE: Heads up re: likely questions from SAC Energy and Water

(b)(5)

Margie

-----Original Message-----

From: Schwartzman, Jennifer
Sent: Monday, March 28, 2011 5:59 PM
To: Doane, Margaret; Henderson, Karen
Subject: RE: Heads up re: likely questions from SAC Energy and Water

(b)(5)

From: Doane, Margaret
Sent: Monday, March 28, 2011 5:52 PM
To: Henderson, Karen; Schwartzman, Jennifer
Subject: FW: Heads up re: likely questions from SAC Energy and Water

Could you please draft answers to the IAEA questions below. It's for the Senate Energy and Water hearing on Weds. So, they'll need it ASAP.

Margie

-----Original Message-----

From: Decker, David
Sent: Monday, March 28, 2011 5:34 PM
To: Doane, Margaret; Rihm, Roger
Subject: FW: Heads up re: likely questions from SAC Energy and Water

Margie and Roger,

Attached below are some initial "questions" that the SAC Subcommittee on Energy and Water Development sent to us as a "heads-up" of what might be asked at this Wednesday's hearing where the Chairman will be the NRC's representative. The first set of questions looks like it deals with international/IAEA type issues (Margie stuff), with the rest of them being more in the EDO world (Roger stuff). Whatever you can do tomorrow to provide talking points/one-pagers (anything really) to address these questions would greatly help the Chairman prepare for his hearing. If you can develop something, just e-mail it to me and we will provide it to the Chairman. Thanks!

-----Original Message-----

From: Powell, Amy
Sent: Monday, March 28, 2011 3:52 PM
To: Schmidt, Rebecca; Batkin, Joshua
Cc: Decker, David
Subject: Heads up re: likely questions from SAC Energy and Water

FYI, Doug Clapp just send an initial (partial) list of potential questions for Wednesday's SAC Energy and Water hearing - see below...

Amy

-----Original Message-----

From: Clapp, Doug (Appropriations) [mailto:Doug_Clapp@appro.senate.gov]

Sent: Monday, March 28, 2011 2:59 PM

To: Powell, Amy

Subject: FW: this is what i have so far

Don't know what Matt will add but these are draft questions I've done up. When I have final list of questions I will send to you but unlikely to be until late tomorrow so wanted to give you early heads up.

-----Original Message-----

From: Clapp, Doug (Appropriations)

Sent: Monday, March 28, 2011 2:53 PM

To: Nelson, Matthew (Feinstein)

Subject: this is what i have so far

FIRST PANEL QUESTIONS

Failure of IAEA to Lead and Provide Information:

Chairman Jaczko, there has been significant confusion created by conflicting information and inadequate information coming out of Japan. Clearly the nature of the nuclear crisis creates most of this confusion, but some attribute a portion of the problem to the utility and Japanese government.

The rest of the world is left to sift through conflicting information and conduct remote independent radiation monitoring to try to assess the situation. This appears to be a problem.

- * Does the International Atomic Energy Agency have a role to play in assuring governments adequately share information?
- * Does the IAEA have a role in assuring international assessments of radiation levels?
- * Do you feel the international community is better prepared since Chernobyl, and if so, how has that been demonstrated with the event at Daiichi?

NAS Study on Spent Fuel

Chairman Jaczko, in 2006 a National Academy of Sciences committee completed a report requested by the NRC and Department of Homeland Security related to safety of spent nuclear fuel. Matt Bunn of Harvard wrote an op-ed this past week that two recommendations from that NAS report were to 1) put old fuel next to new fuel in the spent fuel

pools, and 2) add sprayers over the pools in case cooling water was lost for whatever reason. He says the NRC did not implement these recommendations.

- * Can you tell me if Mr. Bunn is correct, and if so, why the NRC did not implement these two safety recommendations made by the NAS report?
- * Are there other suggestions from the NAS, or other entities, that the NRC has not implemented that you are willing to reconsider in light of events at Daiichi?

Independent Assessment of Nuclear Power Safety in the United States

Chairman Jaczko, I want to thank you and the people of your agency for the hard work and long hours many of you have been putting in since March 11. I further want to say that I believe the women and men of your agency work hard every day to keep our power plants safe. So, in no way do I want you or the workforce of the NRC to take this question as a slight.

- * Do you believe there is value in having an independent assessment of nuclear power safety in the United States?

Design Basis Reassessment

Chairman Jaczko, in the past four years there has been earthquakes in Japan that have exceeded the design basis for nuclear plants in the vicinity of the earthquakes.

- * How confident are you that our design basis for U.S. plants is sufficient?
- * Why were the Japanese so wrong on their assumptions of the possible maximum earthquake and tsunami events?

Relicensing not including seismic and tsunami

Chairman Jaczko, I understand from my trip to Diablo Canyon that the relicensing process does not include a review of seismic and tsunami threats. Rather that relicensing is focused more on the aging of materials and equipment. The plant operators and NRC personnel on the trip explained that seismic and tsunami issues are considered on a continuing basis and thus do not need to be part of the relicensing.

I find this a little confusing. I understand relicensing should consider aging of materials and equipment as 20 to 40 years have passed since the initial license. But our information relative to seismic and tsunami threats has also changed over this time.

* If seismic and tsunami issues are not considered during relicensing, what guarantee do we have that the NRC is adequately considering these issues at any other time?

* If not considered during relicensing, does the burden fall to the federal government to prove there is a need to modify the license due to seismic or tsunami information or does that burden get put on the plant operator?

From: Doane, Margaret
Sent: Monday, March 28, 2011 5:34 PM
To: Shaffer, Mark R
Cc: Borchartt, Bill; Rodriguez, Veronica; Skeen, David; Schwartzman, Jennifer
Subject: Proposal to Discuss with IAEA fukishima.docx
Attachments: Proposal to Discuss with IAEA fukishima.docx

Mark

Attached is the latest proposal for purposes of discussion at the IAEA.

(b)(5)

(b)(5)

Could you do two things with this proposal:

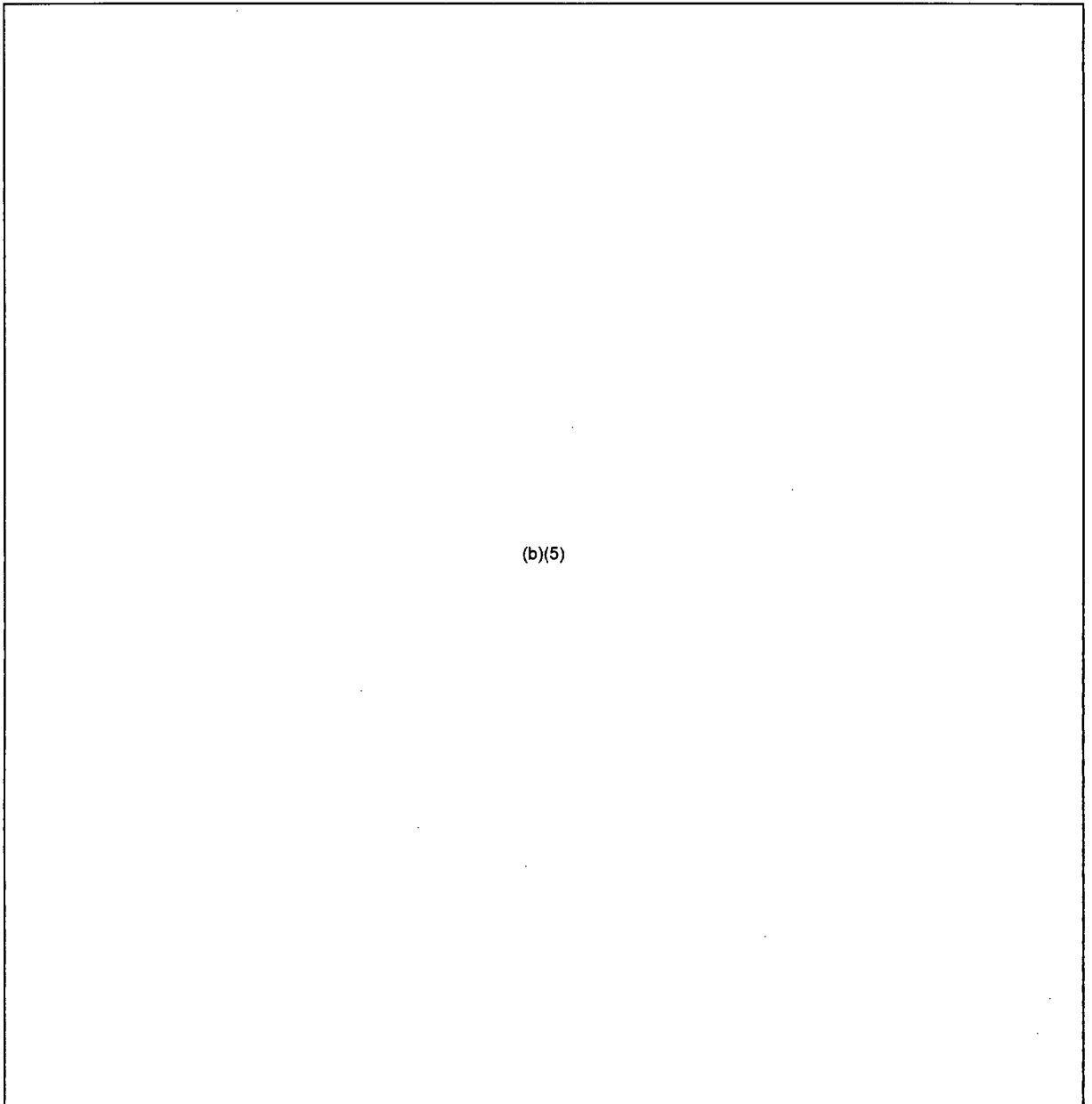
(b)(5)

Dave S. might be on the late night, early morning shift in the ops center. Feel free to work with him.

(b)(5)

Margie

Proposal to Discuss Coordination
Among Contracting Parties in the Aftermath of Events in Japan



From: Doane, Margaret
Sent: Monday, March 28, 2011 5:13 PM
To: Froehlich, William
Cc: Kreuter, Jane
Subject: RE: EBA panel

Judge Froehlich,

I believe I have an NRC car taking me down to the meeting. Please join me. I copied Jane Kreuter on this note and she can provide you with more details. We can talk then. I would normally be happy to meet with you before but I'm afraid my schedule is very booked because we are responding to the Japan event and I'm leaving for Vienna on Friday.

With kind regards,
Margie Doane

From: Froehlich, William
Sent: Monday, March 28, 2011 10:28 AM
To: Doane, Margaret
Subject: EBA panel

Good morning Ms. Doane,

I am a relatively new Judge (Legal) on the ASLBP and a member of the Energy Bar Association. I was planning to attend or listen-in on your panel discussion on "Developing International Legal and Regulatory Frameworks for New Nuclear Power Development" on Thursday.

I will be the sole presenter at a similar meeting/teleconference for the Energy Bar Association in a few weeks (April 14), albeit on a vastly different topic, and wanted to get comfortable with the format, location and how it is done.

I was wondering if I could come by your office and introduce myself to you and perhaps travel with you to the meeting on Thursday.

W. Froehlich

William J. Froehlich

Administrative Judge - ASLBP
U. S. Nuclear Regulatory Commission
Room T3-E13, MS T-3 F23
Rockville, MD 20555-0001
Direct Dial: (301) 415-5922

From: Doane, Margaret
Sent: Monday, March 28, 2011 4:13 PM
To: Fragoyannis, Nancy; Ramsey, Jack; Kreuter, Jane
Subject: Cranes

Below is the Wikipedia discussion of cranes in the Japanese culture. It's a very beautiful tradition that you fold the cranes to bring a cure to illness or injury, it's also a symbol of world peace. The story I was telling you about was how I learned about the tradition. It was about a young girl who was dying of leukemia who was exposed to the A-bomb. She was folding cranes in hopes of cure, which didn't come.

The idea of folding cranes is centuries old, and a wonderful gesture in these times. There is going to be a proposal for all NRC employees to fold a crane. Not sure of the details, it should be out on the web soon.

http://en.wikipedia.org/wiki/Thousand_origami_cranes

Margie

From: Doane, Margaret
Sent: Monday, March 28, 2011 2:04 PM
To: Mamish, Nader; Henderson, Karen
Subject: FW: 50 Mile EPZ justification response

From: Borchardt, Bill
Sent: Monday, March 28, 2011 1:09 PM
To: Doane, Margaret
Subject: FW: 50 Mile EPZ justification response

From: Batkin, Joshua
Sent: Monday, March 28, 2011 1:03 PM
To: Borchardt, Bill
Subject: RE: 50 Mile EPZ justification response

Yes – they look good. thanks

From: Borchardt, Bill
Sent: Monday, March 28, 2011 11:16 AM
To: Batkin, Joshua
Subject: FW: 50 Mile EPZ justification response

Note that the ops center has just responded to Mr Takashi, but the answers look ok to me.

From: LIA03 Hoc
Sent: Monday, March 28, 2011 11:07 AM
To: takashi.inutsuka@mofa.go.jp
Cc: Doane, Margaret; Mamish, Nader; LIA02 Hoc; LIA08 Hoc; Borchardt, Bill; LIA03 Hoc
Subject: 50 Mile EPZ justification response

On behalf of Bill Borchardt, we are responding to your questions:

1. In the NRC NEWS, March 16, 2011, there are attachments of the results of two sets of computer calculations. One, 15 March 2010 02:51am (EDT), has a hypothetical, single-reactor site, 2350 MWt, Boiling Water Reactor. On the other hand, 16 March 2010 12:24pm (EDT), has a hypothetical, four-reactor site. But in these attachments there is no detailed assumption for calculations about

- (1) the power and type of reactor for the four-reactor site,
- (2) weather, wind direction and speed, and the status of the problem at the reactors (for example: Source Term).

Q1: Are these sentences correct?

A1: These sentences are correct. Although the press release identified one of the computer calculations being based on a hypothetical four-reactor site, the source term used in

the calculation was the approximate activity available for release from one reactor and two spent fuel pools.

Q2: Have you ever explained these detailed assumptions to the public?

A2: The assumptions have been generally described in press releases, interviews, and congressional testimony.

Q3: Could you explain the relation between the number of Total EDE and 1rem (PAGs)? For example 8.1rem (15 March calculation) and 9.9rem (16 March calculation), 50 mi, and 1rem? Could you also explain the relation between the number of Thyroid CDE and 5rem (PAGs)? For example 23rem (15 March calculation) and 48rem (16 March calculation), 50 mi, and 5rem? Is there no need to calculate this for distances greater than 50 mi?

A3: As stated in the press release, these two computer calculations are hypothetical, rough estimates that would not necessarily characterize an actual release. Although the calculation references have TEDE and CDE doses exceeding PAGs beyond 50 miles, these were only two of several cases run. Given that other cases projected PAG doses less than 50 miles and there would be time to extend our recommendations beyond 50 miles, if necessary, the 50 mile recommendation was considered appropriate to protect US citizens.

2. At the White House Regular Briefing, March 17, 2011, Chairman Jaczko said, "We have a team of 11, some of our best technical experts in Tokyo, and they are working with counterparts from the utility in Tokyo as well as other individuals with the government. So that is one of the sources. We are collecting data from as many places as we can to make the best judgments we can with the information available. But I would stress that this is a very difficult situation. There is often conflicting information. And so we made what we thought was a prudent decision."

Q4: Does this statement accurately reflect the NRC's decisionmaking process that led to the recommendation (50 miles)?

A4: Yes.

Q5: Did NRC have evidence to suggest that radiation levels around Fukushima were higher than what Japanese officials had said?

A5: No. The NRC had very limited radiation level information at this time. The computer calculations and subsequent protective action decisions were based on conservative assumptions based on limited information and the deteriorating state of several reactors and spent fuel pools.

3. At the meeting of NRC, March 21, 2011, you said, "the situation that led to the 50 mile guidance in Japan was based upon what we understood and still believe had existed that there were degraded conditions in two spent-fuel pools at the site and, in all likelihood, some core damage in three of the reactor units. Based on the situation as we understood it at that time, we thought it was prudent to provide the recommendation to the ambassador to evacuate out to 50 miles in Japan."

Q6: Does this statement accurately reflect the NRC's decisionmaking process that led to the recommendation (50 miles)?

A6: Yes.

Q7: There are some differences on the basis for making recommendation between 1. and 3. Could you explain the basis for making the recommendation (50 miles) again?

A7: The comments made by NRC Chairman Jaczko and Mr. Borchardt were consistent in that seriously degrading conditions at several Daiichi units supported a need to take pre-emptive protective action. The computer calculations helped to provide perspective on possible impacts.

Q8: I understand the recommendation is prudent. How do you define "prudent" in the assumptions for your calculations? in the decision about the distance?

A8: Since communications were limited and there was a large degree of uncertainty about plant conditions at the time, it was difficult to accurately assess the radiological hazard. Computer models used meteorological model data appropriate for the Fukushima Daiichi vicinity. Source terms were based on hypothetical, but not unreasonable estimates of fuel damage, containment, and other release conditions. Subsequent modeling can be correlated with the ground deposition as observed in flyover and other monitoring data. Therefore, prudent (reasonable conservative protective actions made with a predictive approach to limit radiation exposure to US citizens) can be substantiated based on the conditions present and the information known at the time.

If you have additional questions please contact Mr. Borchardt at the email address above.

From: Doane, Margaret
Sent: Monday, March 28, 2011 1:46 PM
To: Borchardt, Bill
Cc: Shaffer, Mark R; Skeen, David; Schwartzman, Jennifer; Rodriguez, Veronica
Subject: FW: CNS
Attachments: Proposal to Discuss Coordination.docx

Bill,

(b)(5)

Please let me know and Jen can work with Dave and others on a revision.
Mergie

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Monday, March 28, 2011 12:42 PM
To: Doane, Margaret
Subject: RE: CNS

Mergie:

Ambassador has left the building and is at another function tonight. The earliest I could get on his calendar is tomorrow at noon (6:00 am your time). However, I have looked at the proposal and

(b)(5)

(b)(5)

-Mark

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Monday, March 28, 2011 6:20 PM
To: Doane, Margaret; Shaffer, Mark R
Subject: RE: CNS
Importance: High

No, ok. It's confusing, but get an opinion for us about whether to float the proposal. On the phone with Borchardt.

From: Doane, Margaret
Sent: Monday, March 28, 2011 12:15 PM
To: Shaffer, Mark R
Subject: FW: CNS

Hold it, maybe this is all OBE

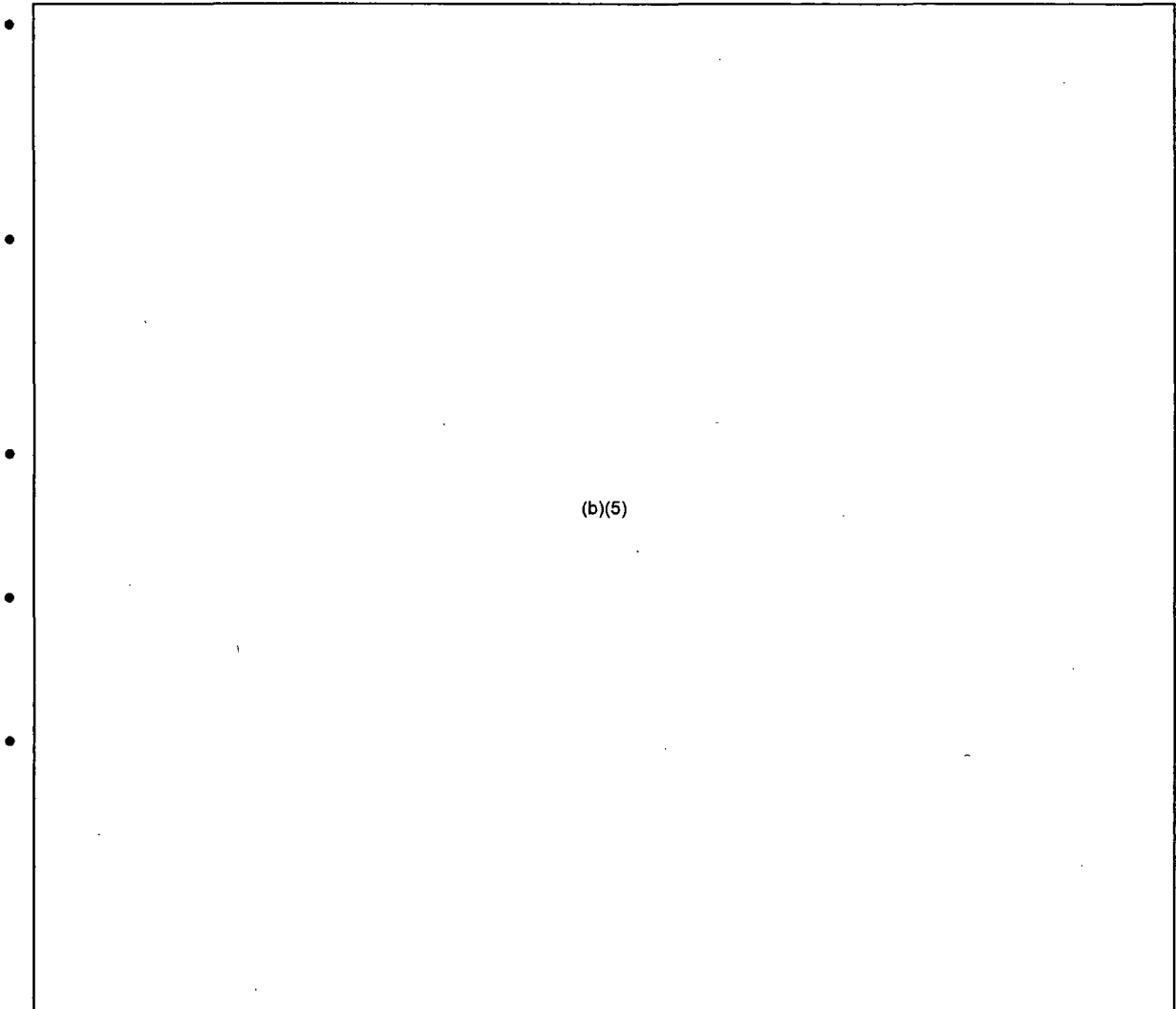
From: Borchardt, Bill
Sent: Monday, March 28, 2011 12:13 PM
To: Doane, Margaret
Cc: Skeen, David
Subject: CNS

Gustavo just told me that they have talked to the Chinese mission and advised them that their recommendation to Li Ganjie is:

- 1) Japan to hold a special briefing at 6:30pm Monday (all member states to be invited)
- 2) The Sunday Officers' meeting will identify special topics for discussion in the country groups
- 3) Each CP will be asked to report on what follow-up plans they have

The mission will be discussing with Li Ganjie Tues (China time)

Proposal to Discuss Coordination
Among Contracting Parties in the Aftermath of Events in Japan



From: Doane, Margaret
Sent: Monday, March 28, 2011 1:21 PM
To: Schwartzman, Jennifer
Subject: FW: Amano announced a high-level IAEA conference on Nuclear Safety

fYI

From: Doane, Margaret
Sent: Monday, March 28, 2011 1:19 PM
To: Borchardt, Bill
Cc: Skeen, David; Rodriguez, Veronica
Subject: FW: Amano announced a high-level IAEA conference on Nuclear Safety

Just posted.

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Monday, March 28, 2011 12:59 PM
To: Doane, Margaret
Cc: Schwartzman, Jennifer
Subject: Amano announced a high-level IAEA conference on Nuclear Safety

Just posted on IAEA web site.....

On 28 March 2011 at a special briefing on the Fukushima nuclear accident held for IAEA Member States, IAEA Director General Yukiya **Amano announced a high-level IAEA conference on Nuclear Safety should take place here in Vienna before the summer.**

Noting that the Fukushima crisis has confronted the Agency and the international community with a major challenge, Director General Amano said that it was "vitaly important that we learn the right lessons from what happened on March 11, and afterwards, in order to strengthen nuclear safety throughout the world". He recalled that following the IAEA Board of Governors meeting in the previous week, "many countries joined my call for robust follow-up action".

Director General Amano proposed that high-level IAEA conference on Nuclear Safety should cover the following points:

- **an initial assessment of the Fukushima accident, its impact and consequences;**
- **considering the lessons that need to be learned;**
- **launching the process of strengthening nuclear safety;**
- **and strengthening the response to nuclear accidents and emergencies.**

Since the IAEA offers the "necessary expertise, extensive membership and can ensure transparency", Director General Amano noted that the IAEA is the best venue for follow-up on the Fukushima accident.

This email is UNCLASSIFIED.

From: Doane, Margaret
Sent: Monday, March 28, 2011 12:34 PM
To: Borchardt, Bill
Cc: Mamish, Nader
Subject: RE: 50 Mile EPZ justification response to Inutsuka Takashi (Final)

Bill,

This document was transmitted to Japan as a response to the note you received, with questions to come back to you.

The content and method of response was not discussed with OIP. I had no problem with using our resources to transmit a reply at the technical staff's request. OIP was not part of these discussions and has given no input on the method or content of the transmission.

Margie

From: LIA03 Hoc
Sent: Monday, March 28, 2011 9:00 AM
To: Doane, Margaret; Mamish, Nader; LIA02 Hoc
Subject: FW: 50 Mile EPZ justification response to Inutsuka Takashi (Final)
Importance: High

Margie,

This has been working for several days and has been approved internally here by the ET. We are seeking your approval to forward to Mr. Takashi. Please advise.

Thanks,

Jill

From: Hoc, PMT12
Sent: Monday, March 28, 2011 8:53 AM
To: LIA08 Hoc; LIA03 Hoc; LIA02 Hoc
Subject: 50 Mile EPZ justification response to Inutsuka Takashi (Final)

Attached is the final response to the 50 Mile EPZ questions to Inutsuka Takashi. Please provide a copy to the Commissioner's Assistants and have the International Liaison transmit the response to Mr. Takashi.

The ET has approved the final document.

PMT

From: Doane, Margaret
Sent: Monday, March 28, 2011 11:32 AM
To: 'Shaffer, Mark R'
Subject: FW: fukushimasession.docx
Attachments: fukushimasession.docx

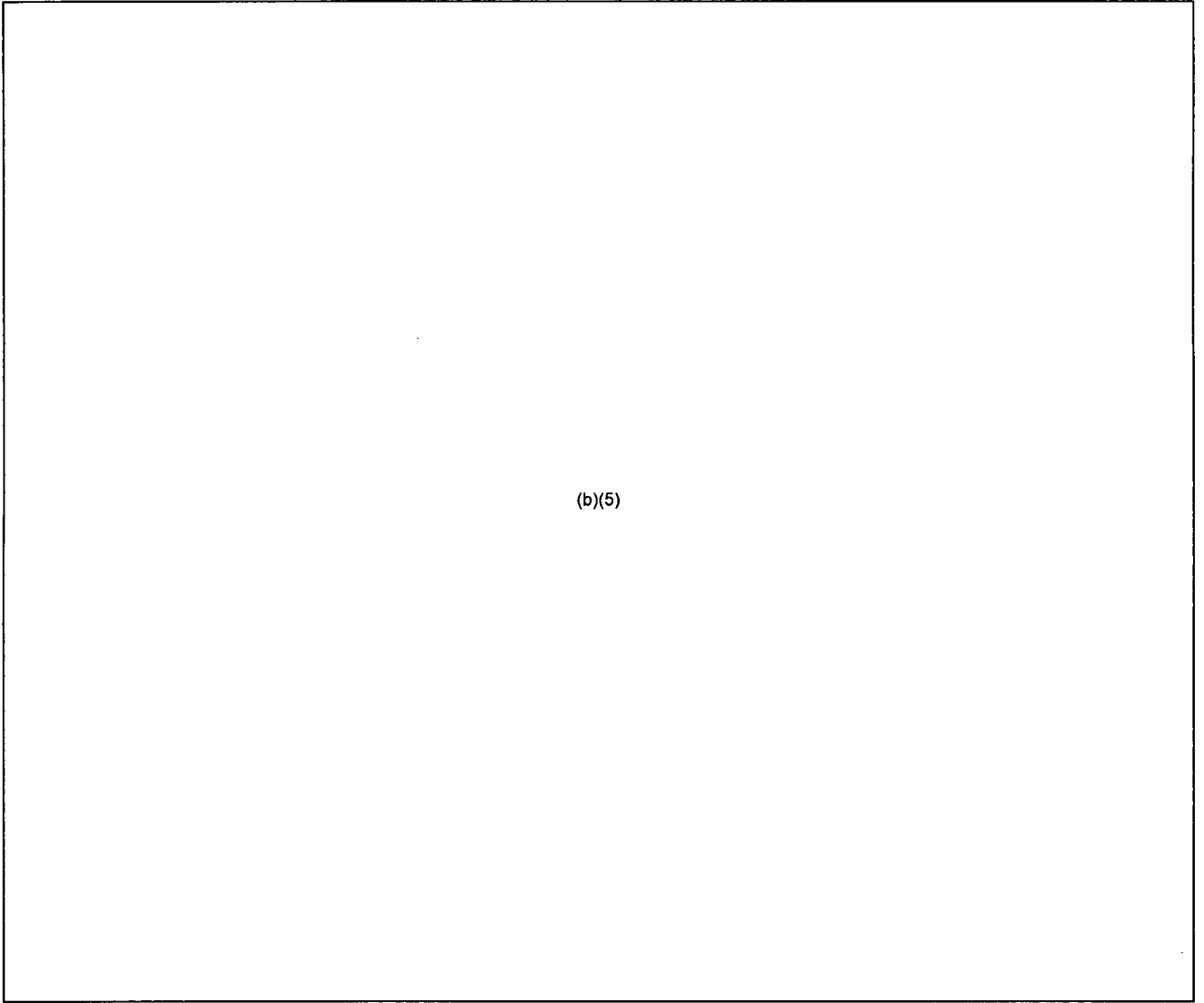
Importance: High

From: Doane, Margaret
Sent: Monday, March 28, 2011 9:41 AM
To: Shaffer, Mark
Cc: Schwartzman, Jennifer; Skeen, David
Subject: fukushimasession.docx
Importance: High

Mark,
Please see previous note, but (b)(5) please use this as the final document.

Phone Call with Flory- 3/28

Options for CNS Review Meeting to address Fukushima



(b)(5)

From: Doane, Margaret
Sent: Monday, March 28, 2011 9:36 AM
To: Shaffer, Mark
Cc: Skeen, David; Schwartzman, Jennifer
Subject: fukushimasession.docx
Attachments: fukushimasession.docx

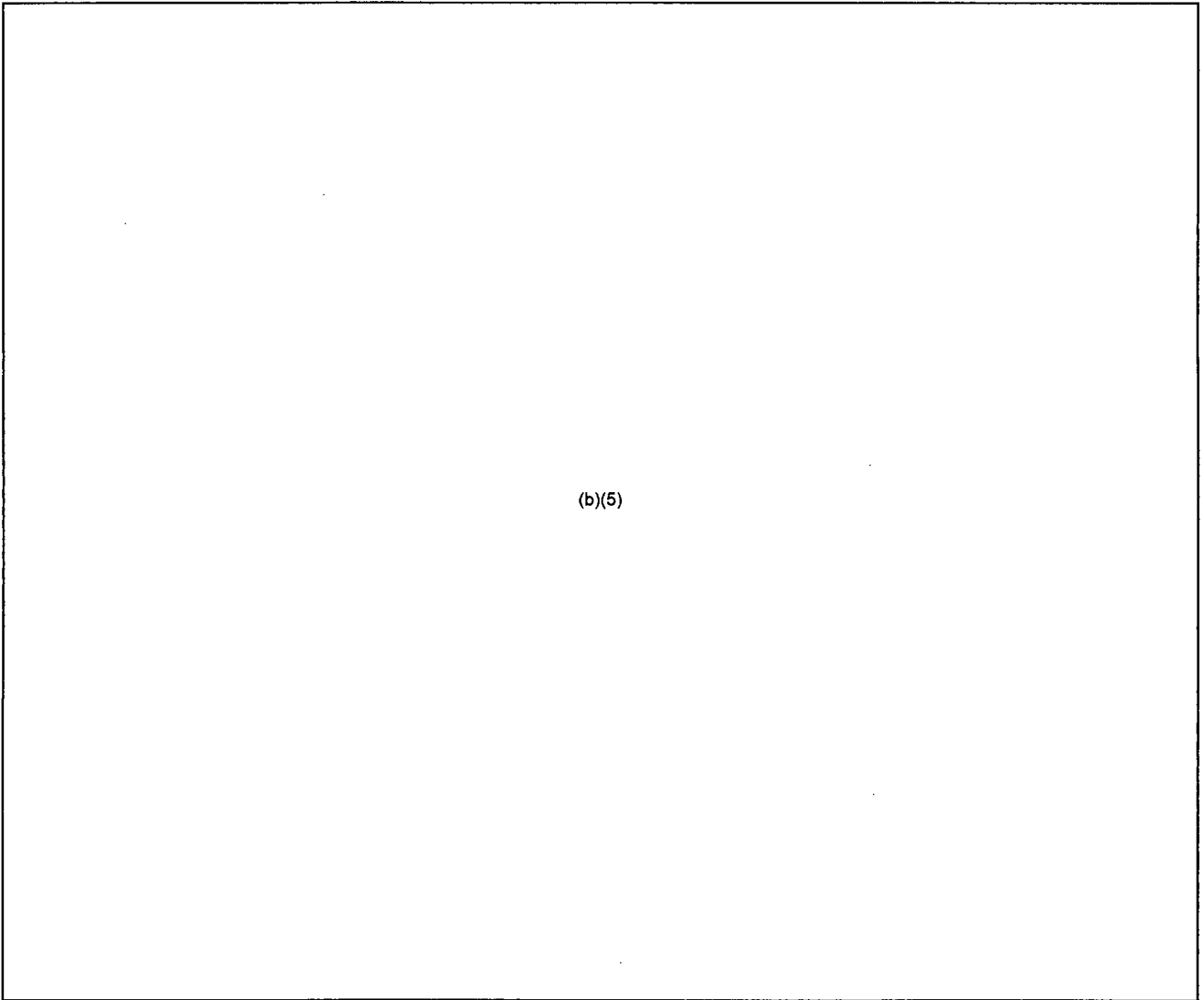
Mark,
Please call ASAP

(b)(5)

Margie

Phone Call with Flory- 3/28

Options for CNS Review Meeting to address Fukushima



(b)(5)

From: Doane, Margaret
Sent: Sunday, March 27, 2011 7:06 PM
To: Smith, Brooke; Foggie, Kirk
Subject: Fw: Ambo Davies call to DG Amano..

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Cc: Schwartzman, Jennifer
Sent: Sun Mar 27 14:35:17 2011
Subject: Ambo Davies call to DG Amano..

FYI....see below...Ambo spoke to Amano about Chairman's trip AND CNS stuff. Okay, enough of this, I'm leaving the office now...

----- Original Message -----

From: Davies, Glyn T
To: Shaffer, Mark R
Cc: Scheland, Mark DL; Wood, Robert A; Hall-Godfrey, Jennifer J
Sent: Sun Mar 27 13:17:56 2011
Subject: Re: Chairman Jaczko travel -- press strategy

(b)(5)

----- Original Message -----

From: Shaffer, Mark R
To: Davies, Glyn T
Cc: Scheland, Mark DL; Wood, Robert A; Hall-Godfrey, Jennifer J
Sent: Sun Mar 27 10:15:46 2011
Subject: Re: Chairman Jaczko travel -- press strategy

(b)(5)

(b)(5)

----- Original Message -----

From: Davies, Glyn T

To: Zumwalt, James P

Cc: Wall, Marc M; Webster, Jessica M (TDY/ECN); Scheland, Mark DL; Wood, Robert A; Shaffer, Mark R; Hall-Godfrey, Jennifer J

Sent: Sun Mar 27 09:55:00 2011

Subject: RE: Chairman Jaczko travel -- press strategy

Many thanks Jim.

UNVIE Colleagues: Let's work with NRC to see if Chairman Jaczko can call Amano while in Tokyo.

-----Original Message-----

From: Zumwalt, James P

Sent: Sunday, March 27, 2011 3:43 PM

To: Davies, Glyn T

Cc: Wall, Marc M; Webster, Jessica M (TDY/ECN)

Subject: Chairman Jaczko travel -- press strategy

Below is the public narrative for his visit. There are now 12 NRC engineers working in the embassy full time and I think he wants to see them to get their take. The NRC is very aware of the international nature of this effort and wants to work closely with the IAEA, the French, the Russians and industry. I think he will be very supportive of Japanese efforts. Our action officer are Marc Wall and Jessica Webster.

----- Original Message -----

From: Hoffmann, Phillip P

To: Zumwalt, James P

Sent: Sun Mar 27 06:58:19 2011

Subject: Re: Chairman Jaczko travel -- press strategy

Thanks for looping Karen and me in.

----- Original Message -----

From: Zumwalt, James P

To: Hoffmann, Phillip P; Kelley, Karen D (IO/Tokyo)

Cc: Donovan, Joseph R

Sent: Sun Mar 27 06:10:02 2011

Subject: Chairman Jaczko travel -- press strategy

Ben worked on Chairman Jaczko's visit today. A nice press strategy. We want to keep this low key. Jim

James P. Zumwalt

Deputy Chief of Mission
U.S. Embassy, Tokyo
1-10-5 Akasaka
Minato ku Tokyo 107-8420
(03) 3224-5550
<http://tokyo.usembassy.gov/zblog/e/zblog-emain.html>

-----Original Message-----

From: Chang, Benjamin
Sent: Sunday, March 27, 2011 5:27 PM
To: Wall, Marc M; 'Joshua.Batkin@nrc.gov'; Zumwalt, James P
Cc: Fuller, Matthew G; 'Eliot.Brenner@nrc.gov'; Phillips, Leslie M
Subject: Re: Chairman Jaczko travel

(+ Leslie, now in Tokyo)

A draft press plan - comments welcome:

Visit of NRC Chairman Jaczko 3-28-11

Press posture

Before arrival (note the Embassy has notified the Japanese government of his visit and is working on his schedule.):

- The NRC is not issuing any media advisory or announcement of the visit.
- If asked, they will confirm on background and refer inquiries for further details to the Embassy.
- If pressed on the short duration of the trip, they will point out that the Chairman is testifying before the Senate Appropriations Committee on Wednesday.

Embassy is not issuing any announcement of his visit.

If asked, we will, on background:

- confirm his visit,
- note that he is visiting his team and Japanese officials to demonstrate at the highest level our continued support and close cooperation.

Monday's Schedule:

It is likely that the Chairman will encounter press (reporters & cameras) as he exits his meetings at either the NISA, TEPCO, the Prime Minister's Office, or the Cabinet.

There may also be a camera spray laid on at the top of one of the meetings [NRC/ECON – can you raise this question with our counterparts? We would not press for one but it is their prerogative.]

The Chairman would not speak to the press but rather the Embassy will release a statement in his name at the conclusion of his meetings [worth considering issuing that statement before the Cabinet meeting given the late hour].

Draft press statement elements:

- I traveled to Tokyo today to convey directly to our Japanese friends a message of support and cooperation, and to visit our team here to express my appreciation for all they are doing as we work together to resolve this crisis.
- Our nuclear experts are working side-by-side with their Japanese counterparts, and we continue to share scientific information as we move forward to resolve this challenge.
- We will continue to stand with the people of Japan as they overcome this tragedy, and we stand ready to continue to provide any assistance we can in the days to come.
- As President Obama said, we will stand with the people of Japan as they recover from this hardship and rebuild their great nation; the friendship and alliance between our two nations is unshakable.

----- Original Message -----

From: Chang, Benjamin

Sent: Sunday, March 27, 2011 01:30 AM

To: Wall, Marc M; 'Joshua.Batkin@nrc.gov' <Joshua.Batkin@nrc.gov>; Zumwalt, James P

Cc: Fuller, Matthew G; 'Eliot.Brenner@nrc.gov' <Eliot.Brenner@nrc.gov>

Subject: Re: Chairman Jaczko travel

Thank you.

All inquiries to the press section will come to me...

----- Original Message -----

From: Wall, Marc M

Sent: Sunday, March 27, 2011 01:25 AM

To: Chang, Benjamin; 'Joshua.Batkin@nrc.gov' <Joshua.Batkin@nrc.gov>; Zumwalt, James P

Cc: Fuller, Matthew G; 'Eliot.Brenner@nrc.gov' <Eliot.Brenner@nrc.gov>

Subject: RE: Chairman Jaczko travel

We've informed MOFA, the Kantei, NISA, and TEPCO.

This email is UNCLASSIFIED

-----Original Message-----

From: Chang, Benjamin

Sent: Sunday, March 27, 2011 12:44 PM

To: 'Joshua.Batkin@nrc.gov'; Zumwalt, James P

Cc: Wall, Marc M; Fuller, Matthew G; 'Eliot.Brenner@nrc.gov'

Subject: Re: Chairman Jaczko travel

Thanks

NRC is not issuing any sort of media advisory on the visit.

Do we know when we are informing the Japanese of the visit?

----- Original Message -----

From: Batkin, Joshua [mailto:Joshua.Batkin@nrc.gov]
Sent: Saturday, March 26, 2011 11:29 PM
To: Chang, Benjamin; Zumwalt, James P
Cc: Wall, Marc M; Fuller, Matthew G; Brenner, Eliot <Eliot.Brenner@nrc.gov>
Subject: Re: Chairman Jaczko travel

+Eliot Brenner, NRC public affairs director.

Ben, good to talk to you. Sounds like you have a good plan and if we're asked about the trip here, we'll simply confirm on background that he's coming out to meet with US and GOJ counterparts, refer folks to the embassy for further details, and be ready to correct any mistaken notions that it is some sort of urgent trip by pointing out it is short simply because of his full schedule midweek, including testifying before the Senate Appropriations Energy and Water Subcommittee on Wednesday morning.

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

----- Original Message -----

From: Chang, Benjamin <ChangBE@state.gov>
To: Zumwalt, James P <ZumwaltJP@state.gov>; Batkin, Joshua
Cc: Wall, Marc M <WallMM@state.gov>; Fuller, Matthew G <FullerMG@state.gov>
Sent: Sat Mar 26 22:44:51 2011
Subject: Re: Chairman Jaczko travel

Hi, Joshua. We are primed here to be of support for the visit and the messaging.

I've been in touch with the NSC and discussed with the Ambassador and front office and think there is a way to keep this low-key while getting a solid positive message of support and partnership out as a result of his visit. Happy to discuss anytime.

Ben

----- Original Message -----

From: Zumwalt, James P
Sent: Saturday, March 26, 2011 10:33 PM
To: 'Batkin, Joshua' <Joshua.Batkin@nrc.gov>; Chang, Benjamin
Cc: Wall, Marc M; Fuller, Matthew G
Subject: RE: Chairman Jaczko travel

Joshua --

The Ambassador agrees this visit should be low key. Ben Chang has been handling the public affairs aspects of this visit for the Embassy and I'll ask him to contact you directly to discuss.

Appreciate Ben if you could continue to cc this group on press issues.

Jim

James P. Zumwalt

Deputy Chief of Mission
U.S. Embassy, Tokyo
1-10-5 Akasaka
Minato ku Tokyo 107-8420
(03) 3224-5550
<http://tokyo.usembassy.gov/zblog/e/zblog-email.html>

-----Original Message-----

From: Batkin, Joshua [mailto:Joshua.Batkin@nrc.gov]
Sent: Sunday, March 27, 2011 11:31 AM
To: Zumwalt, James P
Subject: Re: Chairman Jaczko travel

Thank you. Please let the us know how public you'd like the visit to be. The Chairman's expectation is that it will be low-key but he's also comfortable doing press if you think it would be beneficial. If so, can we ask for the support of the press person at the embassy whom the WH speaks highly of? Thank you and your staff again for all the support - the Chairman's looking forward to the visit. Please let me know if you or the Ambassador have any questions prior to his arrival monday morning.

Thanks,
Josh

(b)(6) c

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

----- Original Message -----

From: Zumwalt, James P <ZumwaltJP@state.gov>
To: JapanEmbassy, TaskForce <JapanEmbassyTaskForce@state.gov>; Batkin, Joshua
Cc: Wert, Robert A <WertRA@state.gov>; Bare, Robert A <BareRA@state.gov>; Hardin, Alexander K <HardinAK2@state.gov>; Wall, Marc M <WallMM@state.gov>; Forbes, James A <ForbesJA@state.gov>; Howard, E. Bruce <HowardEB@state.gov>; Cherry, Ronald C <CherryRC@state.gov>; Duncan, Aleshia D <DuncanAD@state.gov>; Fuller, Matthew G <FullerMG@state.gov>; Angelov, Bonnie A <AngelovBA@state.gov>; Basalla, Suzanne I <BasallaSI@state.gov>; Deming, Rust M <DemingRM@state.gov>; Pace, Patti; Coggins, Angela; Foggie, Kirk; Bradford, Anna; Webster, Jessica M (Hanoi) <WebsterJM@state.gov>
Sent: Sat Mar 26 22:13:40 2011
Subject: RE: Chairman Jaczko travel

Looping in Jessica Webster who is also working with the NRC team on planning this visit.

James P. Zumwalt
Deputy Chief of Mission
U.S. Embassy, Tokyo
1-10-5 Akasaka
Minato ku Tokyo 107-8420
(03) 3224-5550
<http://tokyo.usembassy.gov/zblog/e/zblog-email.html>

-----Original Message-----

From: JapanEmbassy, TaskForce

Sent: Sunday, March 27, 2011 9:56 AM

To: 'Batkin, Joshua'; JapanEmbassy, TaskForce

Cc: Wert, Robert A; Bare, Robert A; Hardin, Alexander K; Wall, Marc M; Forbes, James A; Howard, E. Bruce; Cherry, Ronald C; Duncan, Aleshia D; Zumwalt, James P; Fuller, Matthew G; Angelov, Bonnie A; Basalla, Suzanne I; Deming, Rust M; Pace, Patti; Coggins, Angela; Foggie, Kirk; Bradford, Anna

Subject: RE: Chairman Jaczko travel

Thanks Josh. I just spoke with Kirk Foggie and he will work directly with the Embassy's General Services Office (Robert Bare and Alex Hardin) on ground transportation and hotel reservations.

Cheers,
Mike

This email is UNCLASSIFIED

-----Original Message-----

From: Batkin, Joshua [mailto:Joshua.Batkin@nrc.gov]

Sent: Sunday, March 27, 2011 9:43 AM

To: JapanEmbassy, TaskForce

Cc: Wert, Robert A; Bare, Robert A; Hardin, Alexander K; Wall, Marc M; Forbes, James A; Howard, E. Bruce; Cherry, Ronald C; Duncan, Aleshia D; Zumwalt, James P; Fuller, Matthew G; Angelov, Bonnie A; Basalla, Suzanne I; Deming, Rust M; Pace, Patti; Coggins, Angela; Foggie, Kirk; Bradford, Anna

Subject: Re: Chairman Jaczko travel

Travelers: NRC Chairman Gregory B. Jaczko traveling on a diplomatic passport and his Policy Director Angela B. Coggins traveling on an official passport. (Neither have visas). Can you please also help with in-country transportation and hotel reservations? Please let me know if you need additional information and thank you so much for your assistance on short notice.

Here is their flight information:

Travel to Japan:

Saturday March 26th

United 924

IAD – LHR

10:05PM – 10:15AM

Sunday March 27th

Virgin Atlantic 900

LHR – Narita (NRT)

1:45PM – 9:30AM (Monday March 28th)

Return Travel to US:

Tuesday March 29

United 9682

NRT – IAD

11:05AM – 10:40AM (Same day)

Sincerely,

Josh

(b)(6)

c

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

----- Original Message -----

From: JapanEmbassy, TaskForce <JapanEmbassyTaskForce@state.gov>

To: Batkin, Joshua

Cc: Wert, Robert A <WertRA@state.gov>; Bare, Robert A <BareRA@state.gov>; Hardin, Alexander K <HardinAK2@state.gov>; Wall, Marc M <WallMM@state.gov>; Forbes, James A <ForbesJA@state.gov>; Howard, E. Bruce <HowardEB@state.gov>; Cherry, Ronald C <CherryRC@state.gov>; Duncan, Aleshia D <DuncanAD@state.gov>; Zumwalt, James P <ZumwaltJP@state.gov>; JapanEmbassy, TaskForce <JapanEmbassyTaskForce@state.gov>; Fuller, Matthew G <FullerMG@state.gov>; Angelov, Bonnie A <AngelovBA@state.gov>; Basalla, Suzanne I <BasallaSI@state.gov>; Deming, Rust M <DemingRM@state.gov>

Sent: Sat Mar 26 20:24:13 2011

Subject: RE: Chairman Jaczko travel

Josh,

Greetings from Tokyo. Could you please send us the flight information for the chairman and the names of the people in the traveling party?

Thanks,

Mike Daschbach

Embassy Japan Emergency Command Center

This email is UNCLASSIFIED

-----Original Message-----

From: Forbes, James A

Sent: Sunday, March 27, 2011 9:08 AM

To: Bare, Robert A; JapanEmbassy, TaskForce; Hardin, Alexander K

Cc: Wert, Robert A

Subject: RE: Chairman Jaczko travel

And the number of people accompanying the chairman?

This email is UNCLASSIFIED

-----Original Message-----

From: Bare, Robert A
Sent: Sunday, March 27, 2011 9:07 AM
To: JapanEmbassy, TaskForce; Hardin, Alexander K
Cc: Forbes, James A; Wert, Robert A
Subject: Re: Chairman Jaczko travel

Can the task force find out arrival details? Milair or commair?

Thanks,

Robert

----- Original Message -----

From: JapanEmbassy, TaskForce
To: Hardin, Alexander K; Bare, Robert A
Cc: Forbes, James A; Wert, Robert A
Sent: Sat Mar 26 19:58:57 2011
Subject: FW: Chairman Jaczko travel

This email is UNCLASSIFIED-----Original Message-----

From: Horowitz, Paul D
Sent: Sunday, March 27, 2011 8:56 AM
To: JapanEmbassy, TaskForce
Subject: Fw: Chairman Jaczko travel

----- Original Message -----

From: Cherry, Ronald C
To: Wall, Marc M; Horowitz, Paul D; Howard, E. Bruce; Duncan, Aleshia D
Sent: Sat Mar 26 19:54:57 2011
Subject: FW: Chairman Jaczko travel

Please note NRC Chairman visit -- could be tomorrow.

SBU

This email is UNCLASSIFIED

-----Original Message-----

From: Russel, Daniel R. [mailto:(b)(6)]
Sent: Sunday, March 27, 2011 8:06 AM
To: Cherry, Ronald C; 'Steven.Aoki@nnsa.doe.gov'
Subject: FW: Chairman Jaczko travel

FYI

-----Original Message-----

From: Russel, Daniel R.

Sent: Saturday, March 26, 2011 6:44 PM

To: 'Batkin, Joshua'; John V. Roos (roosj@state.gov); James Zumwalt (ZumwaltJP@state.gov); Matthew G Fuller (FullerMG@state.gov); Angelov, Bonnie A; Basalla, Suzanne I

Cc: Jaczko, Gregory; Bader, Jeffrey A.; Rust Deming (demingrm@state.gov); Donovan, Joseph R

Subject: RE: Chairman Jaczko travel

Josh - Adding Embassy Tokyo contacts who can work directly with you. Also adding State Department.

-----Original Message-----

From: Batkin, Joshua [mailto:Joshua.Batkin@nrc.gov]

Sent: Saturday, March 26, 2011 6:37 PM

To: Russel, Daniel R.; Bader, Jeffrey A.

Cc: Jaczko, Gregory

Subject: Chairman Jaczko travel

Gentleman - The Chairman is prepared to travel to Japan this weekend. The itinerary that works best is a departure later tonight, arrival in Tokyo in the morning on Monday (japan time) and a departure mid-day on Tuesday (japan time). Please confirm that works for the Embassy and we'll get him there. Thank you, Josh

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

From: Doane, Margaret
Sent: Sunday, March 27, 2011 7:00 PM
To: Foggie, Kirk; Smith, Brooke
Subject: Fw: about the protective action recommendation

FYI. (b)(5)
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Borchardt, Bill
To: Doane, Margaret; LIA07 Hoc
Cc: Batkin, Joshua
Sent: Sun Mar 27 18:27:25 2011
Subject: Fw: about the protective action recommendation

I believe that Mr Takashi was present during the Chairman's Mar 15 meeting with the Japanese Ambassador at the Japanese Embassy.

Bill Borchardt
Via blackberry

----- Original Message -----

From: INUTSUKA TAKASHI <takashi.inutsuka@mofa.go.jp>
To: Borchardt, Bill
Cc: GOTO KENJI <kenji.goto-3@mofa.go.jp>; SHIMASAKI SEIICHI <seiichi.shimasaki@mofa.go.jp>; HIKAWA KAZUKO <kazuko.hikawa@mofa.go.jp>
Sent: Sun Mar 27 16:37:35 2011
Subject: about the protective action recommendation

Dear R. William Borchardt,

I greatly appreciate your cooperation in helping Japan, and I'm thankful to the NRC team in Japan for their work. I fully understand that it is best for the lines of communication between the NRC team in Japan and Japan (Tokyo) to be direct during this urgent situation. Thank you again for NRC's efforts.

On the other hand, I have received some verification about the protective action recommendation (50 miles) from Tokyo.

If it would be best to ask the NRC team in Japan about this recommendation by Japan (Tokyo), please let me know. But if not, could you tell me some facts about this recommendation? I think these verifications are used to inform discussions in the Japanese Diet, so I would like to ask you about these things for explanation to the public.

1. In the NRC NEWS, March 16, 2011, there are attachments of the results of two sets of computer calculations. One, 15 March 2010 02:51am (EDT), has a hypothetical, single-reactor site, 2350 MWt, Boiling Water Reactor. On the other

hand, 16 March 2010 12:24pm (EDT), has a hypothetical, four-reactor site. But in these attachments there is no detailed assumption for calculations about

(1) the power and type of reactor for the four-reactor site,

(2) weather, wind direction and speed, and the status of the problem at the reactors (for example: Source Term).

Q1: Are these sentences correct?

Q2: Have you ever explained these detailed assumptions to the public?

Q3: Could you explain the relation between the number of Total EDE and 1rem (PAGs)? For example 8.1rem (15 March calculation) and 9.9rem (16 March calculation), 50 mi, and 1rem? Could you also explain the relation between the number of Thyroid CDE and 5rem (PAGs)? For example 23rem (15 March calculation) and 48rem (16 March calculation), 50 mi, and 5rem? Is there no need to calculate this for distances greater than 50 mi?

2. At the White House Regular Briefing, March 17, 2011, Chairman Jaczko said, "We have a team of 11, some of our best technical experts in Tokyo, and they are working with counterparts from the utility in Tokyo as well as other individuals with the government. So that is one of the sources. We are collecting data from as many places as we can to make the best judgments we can with the information available. But I would stress that this is a very difficult situation. There is often conflicting information. And so we made what we thought was a prudent decision."

Q4: Does this statement accurately reflect the NRC's decisionmaking process that led to the recommendation (50 miles)?

Q5: Did NRC have evidence to suggest that radiation levels around Fukushima were higher than what Japanese officials had said?

3. At the meeting of NRC, March 21, 2011, you said, "the situation that led to the 50 mile guidance in Japan was based upon what we understood and still believe had existed that there were degraded conditions in two spent-fuel pools at the site and, in all likelihood, some core damage in three of the reactor units. Based on the situation as we understood it at that time, we thought it was prudent to provide the recommendation to the ambassador to evacuate out to 50 miles in Japan."

Q6: Does this statement accurately reflect the NRC's decisionmaking process that led to the recommendation (50 miles)?

Q7: There are some differences on the basis for making recommendation between 1. and 3. Could you explain the basis for making the recommendation (50 miles) again?

Q8: I understand the recommendation is prudent. How do you define "prudent" in the assumptions for your calculations? in the decision about the distance?

I understand you are extremely busy, but if you could take some time to provide some information in response to my questions above, I would be most grateful.

Again, I greatly appreciate your cooperation.

Sincerely yours,

Takashi Inutsuka
Chief of Science Section
Science Counselor
Embassy of Japan
Tel: 202-238-6920
Fax: 202-462-1118

From: Doane, Margaret
Sent: Sunday, March 27, 2011 10:08 AM
To: 'ShafferMr@state.gov'
Subject: Re: Contact telephone numbers

Did you get what you needed?

Sent from an NRC Blackberry
Margaret Doane

From: Smith, Brooke
To: Doane, Margaret
Sent: Sun Mar 27 06:50:01 2011
Subject: Re: Contact telephone numbers

I've been running around. Let me check with Kirk on the latest.

Sent from an NRC Blackberry.
Brooke G. Smith

(b)(6)

From: Doane, Margaret
To: Smith, Brooke; Foggie, Kirk
Cc: 'ShafferMr@state.gov' <ShafferMr@state.gov>
Sent: Sun Mar 27 06:41:00 2011
Subject: Re: Contact telephone numbers

(b)(5),(b)(6)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Sent: Sun Mar 27 06:35:34 2011
Subject: Re: Contact telephone numbers

(b)(5)

From: Doane, Margaret <Margaret.Doane@nrc.gov>
To: Shaffer, Mark R

Sent: Sun Mar 27 06:28:39 2011
Subject: Re: Contact telephone numbers

Any progress?

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: 'ShafferMr@state.gov' <ShafferMr@state.gov>
Sent: Sun Mar 27 05:08:06 2011
Subject: Re: Contact telephone numbers

Just spoke with Kirk and Brooke.

(b)(5)

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: 'ShafferMr@state.gov' <ShafferMr@state.gov>
Sent: Sun Mar 27 04:54:34 2011
Subject: Re: Contact telephone numbers

(b)(5)

Keep me

posted.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Sent: Sun Mar 27 04:38:50 2011
Subject: Re: Contact telephone numbers

(b)(5)

From: Doane, Margaret <Margaret.Doane@nrc.gov>
To: Shaffer, Mark R
Cc: Foggie, Kirk <Kirk.Foggie@nrc.gov>; Smith, Brooke <Brooke.Smith@nrc.gov>; Batkin, Joshua <Joshua.Batkin@nrc.gov>
Sent: Sun Mar 27 04:28:42 2011
Subject: Re: Contact telephone numbers

(b)(5)

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: LIA03 Hoc
To: Shaffer, Mark R <ShafferMr@state.gov>
Cc: Foggie, Kirk; Smith, Brooke; Doane, Margaret
Sent: Sun Mar 27 02:06:23 2011
Subject: RE: Contact telephone numbers

We were told that we had to keep the information very close, and were not to share it before the White House issues its press release making the announcement (probably sometime tomorrow). Please be very careful!

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Sunday, March 27, 2011 2:03 AM
To: LIA03 Hoc
Cc: Foggie, Kirk; Smith, Brooke; Doane, Margaret
Subject: Re: Contact telephone numbers

(b)(5)

From: LIA03 Hoc <LIA03.Hoc@nrc.gov>
To: Shaffer, Mark R
Cc: Foggie, Kirk <Kirk.Foggie@nrc.gov>; Smith, Brooke <Brooke.Smith@nrc.gov>
Sent: Sun Mar 27 01:53:42 2011
Subject: RE: Contact telephone numbers

Mark,

The flight information for both the Chairman and Angela is as follows:

Saturday March 26th
10:05PM – 10:15AM (next day)
United 924
IAD – LHR

Sunday March 27th
1:45PM – 9:30AM (Monday March 28th)
Virgin Atlantic 900
LHR – Narita (NRT)

Tuesday March 29th
11:05AM – 10:40AM (Same day)

United 9682
NRT – IAD

Unfortunately, we have no information here regarding the Chairman's schedule for this trip. Brook and/or Kirk, have any meetings been set up on your end? I know this was all very sudden and appreciate anything you might be able to share.

Thanks!
Elizabeth

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Sunday, March 27, 2011 1:47 AM
To: LIA03 Hoc
Subject: Re: Contact telephone numbers

Thanks so much Elizabeth. Sorry for all the questions....but do you know when the Chairman leaves for Japan and/or when he arrives, and what will he be doing there? How long will he be there? Will he be meeting with Ambassador Roos? Ambassador Davies will want to know this stuff as soon as I tell him the Chairman is going to Japan. I will be speaking to Ambassador Davies this morning, soon.

From: LIA03 Hoc <LIA03.Hoc@nrc.gov>
To: Shaffer, Mark R; LIA02 Hoc <LIA02.Hoc@nrc.gov>
Cc: Schwartzman, Jennifer <Jennifer.Schwartzman@nrc.gov>; Doane, Margaret <Margaret.Doane@nrc.gov>
Sent: Sun Mar 27 01:37:37 2011
Subject: RE: Contact telephone numbers

Also, the phone numbers are:

Gregory Jaczko, (b)(6)
Angela Coggins, Commission staff, (b)(6)

The phone number at the Hotel (b)(6)

Please let me know if you need anything else.

Best regards,
Elizabeth

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Sunday, March 27, 2011 1:01 AM
To: LIA03 Hoc; LIA02 Hoc
Cc: Schwartzman, Jennifer; Doane, Margaret
Subject: Re: JAPANESE TRAVELER INFORMATION.docx

I cannot read the list on my Blackberry, so bear with me with a question that may be obvious when I get to a computer and can actually read the list...

Is the Chairman's cell phone (and hotel number) on the list. I need this information ASAP. I was not aware that the Chairman was going to Japan, but the Ambassador will undoubtedly want to talk to him very soon. Also, Margie asked me to set up a conference call with Ambassador and Chairman on Monday...I need to know when and where he will be before I start coordinating this call. Thanks

From: LIA03 Hoc <LIA03.Hoc@nrc.gov>
To: OST02 HOC <OST02.HOC@nrc.gov>; Liaison Japan <LiaisonJapan@nrc.gov>
Cc: LIA02 Hoc <LIA02.Hoc@nrc.gov>; Doane, Margaret <Margaret.Doane@nrc.gov>; Mamish, Nader <Nader.Mamish@nrc.gov>; Shaffer, Mark R
Sent: Sat Mar 26 21:10:11 2011
Subject: JAPANESE TRAVELER INFORMATION.docx

All,

I thought with the addition of the new travelers (including the Chairman and his staff) that this updated list might be helpful. Please note that the Chairman and Ms. Coggins have special, new blackberry numbers for use in Japan. Please let me know if you need anything additional or if there are any updates required to the attached document.\

Thanks,
-Jenny

From: Doane, Margaret
Sent: Sunday, March 27, 2011 3:56 AM
To: Foggie, Kirk
Subject: Re: My recommendation to Jaczko an

What are your thoughts. (b)(5)

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Foggie, Kirk
To: Doane, Margaret
Sent: Sun Mar 27 02:27:32 2011
Subject: Fw: My recommendation to Jaczko an

(b)(5)

Sent from Blackberry.

----- Original Message -----

From: 中川air <nakagawa@ruby.famille.ne.jp>
To: Foggie, Kirk
Sent: Sun Mar 27 02:19:32 2011
Subject: My recommendation to Jaczko an

(b)(5)

Nakagawa

From: Doane, Margaret
Sent: Sunday, March 27, 2011 12:01 AM
To: Mamish, Nader; Ramsey, Jack; Fragoyannis, Nancy; Henderson, Karen
Subject: Chairman Trip to Japan

FYI. After some frantic phone calls I think we are in good shape. Kirk and Brooke were under a lot of pressure, but as you can see they now have everything under control and have hours before the Chairman arrives. Please stay tuned in case they need support.

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Foggie, Kirk
To: Doane, Margaret; Batkin, Joshua; Coggins, Angela; Smith, Brooke
Sent: Sat Mar 26 23:42:27 2011
Subject: RE: How can I help

We are in good shape. The Embassy is fully engaged and the main thing we are waiting for is the schedule to be confirmed.

Kirk

-----Original Message-----

From: Doane, Margaret
Sent: Saturday, March 26, 2011 11:39 PM
To: Batkin, Joshua; Coggins, Angela; Foggie, Kirk; Smith, Brooke
Subject: Re: How can I help

Thanks Josh. They've been talking to the Embassy staff too, who have been very helpful. They feel like they have what they need.

I'll forward this message to them just to make sure.

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Batkin, Joshua
To: Doane, Margaret; Coggins, Angela
Sent: Sat Mar 26 23:32:58 2011
Subject: Re: How can I help

Thanks Margie - I think we're in pretty good shape and I talked to Kirk and Brooke. It is simply a quick visit to continue to demonstrate our solidarity and support to our Japanese friends.

(b)(5)

(b)(5)

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

----- Original Message -----

From: Doane, Margaret
To: Batkin, Joshua; Coggins, Angela
Sent: Sat Mar 26 21:34:36 2011
Subject: Re: How can I help

Josh,
Brooke and Kirk called for advice. I told them I'm available all night. Can you share anything that will help to make this a success. I would appreciate it. I gave them the following which they say is a help. Anything I'm missing?
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Doane, Margaret
To: Smith, Brooke; Foggie, Kirk
Sent: Sat Mar 26 21:14:10 2011
Subject: How can I help

(b)(5)

(b)(5)

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Saturday, March 26, 2011 8:28 PM
To: Fragoyannis, Nancy
Subject: Re: Chairman to Japan

Angela. Kirk and Brooke are being tasked. They just found out.
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Fragoyannis, Nancy
To: Doane, Margaret
Sent: Sat Mar 26 20:21:12 2011
Subject: Re: Chairman to Japan

(b)(5)

Nancy Fragoyannis
Sent from NRC Blackberry

(b)(6)

----- Original Message -----

From: Doane, Margaret
To: Burns, Stephen
Cc: Mamish, Nader; Henderson, Karen; Fragoyannis, Nancy; Ramsey, Jack
Sent: Sat Mar 26 20:12:04 2011
Subject: Fw: Chairman to Japan

Here's confirmation of necessary clearance at the highest level.

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Smith, Brooke
To: Ramsey, Jack; Doane, Margaret
Sent: Sat Mar 26 19:51:01 2011
Subject: Visit

Josh said this he is coming at request of Amb and White House.

Sent from an NRC Blackberry.

Brooke G. Smith

(b)(6)

From: Doane, Margaret
Sent: Saturday, March 26, 2011 8:00 PM
To: Abrams, Charlotte; Mamish, Nader
Subject: Re: Japanteam

Kirk and Brooke confirmed that they are not going to the Village.
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Abrams, Charlotte
To: Doane, Margaret; Mamish, Nader
Sent: Sat Mar 26 19:58:20 2011
Subject: Japanteam

(b)(5)

Sent from my nrc blackberry. Charlotte Abrams 3014152933

From: Doane, Margaret
Sent: Saturday, March 26, 2011 7:59 PM
To: Mamish, Nader; Burns, Stephen; Henderson, Karen; Ramsey, Jack; Fragoyannis, Nancy
Subject: Re: Chairman to Japan

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Doane, Margaret
To: Mamish, Nader; Burns, Stephen; Henderson, Karen; Ramsey, Jack; Fragoyannis, Nancy
Sent: Sat Mar 26 18:50:12 2011
Subject: Chairman to Japan

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Saturday, March 26, 2011 6:55 PM
To: Smith, Brooke; Foggie, Kirk
Cc: Mamish, Nader; Ramsey, Jack
Subject: Re: Chairman probably on flight to Tokyo in 3 hours (10:00PM EDT)

Can you please confirm. We were not informed.

Sent from an NRC Blackberry
Margaret Doane

From: Ramsey, Jack
To: Doane, Margaret; Mamish, Nader
Sent: Sat Mar 26 18:44:21 2011
Subject: Fw: Chairman probably on flight to Tokyo in 3 hours (10:00PM EDT)

?!

From: LIA03 Hoc
To: Liaison Japan
Sent: Sat Mar 26 18:41:57 2011
Subject: Chairman probably on flight to Tokyo in 3 hours (10:00PM EDT)

All,
If he can catch the flight, you'll see Chairman Jaczko tomorrow in Tokyo. Chuck, John and Dan are currently on the phone with him but thought you might want to know ASAP.

Thanks!
-Jenny

From: Doane, Margaret
Sent: Saturday, March 26, 2011 2:30 PM
To: Virgilio, Martin
Cc: Schwartzman, Jennifer; Casto, Chuck; Dorman, Dan; Zimmerman, Roy; Gitter, Joseph; Carpenter, Cynthia
Subject: RE: REPLY: List of offers

Marty,
This sounds right. Have you or the ET discussed this with Chuck.
Margie

From: Virgilio, Martin
Sent: Thursday, March 24, 2011 10:14 PM
To: Doane, Margaret
Cc: Schwartzman, Jennifer; Casto, Chuck; Dorman, Dan; Zimmerman, Roy; Gitter, Joseph; Carpenter, Cynthia
Subject: REPLY: List of offers

Margie

On the margins of the daily 8 pm Cabinet level meeting that Chuck attends, there is a review of the list of nuclear items requested by the Japanese of the USG.

I suggest that as the new US logistical support team (DOD lead, staffed by INPO, US industries and others) becomes established in Japan, they work through this process for coordinating nuclear supplies. I suggest that IAEA use this process and list as an input to their international effort. I also suggest they IAEA provide information to Chuck and the US logistical support team that would show what other countries are providing in response to the reactor events.

Marty

From: Doane, Margaret
Sent: Thursday, March 24, 2011 7:02 PM
To: Virgilio, Martin
Cc: Schwartzman, Jennifer
Subject: RE: List of offers

Marty,
IAEA has agreed to put together the "clearing house" for equip, etc. to Japan. The US is going to need to add this information to the data base.

(b)(5)

Margie

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 10:49 AM
To: Doane, Margaret; Mamish, Nader; Abrams, Charlotte
Subject: FW: List of offers

Margie,

Please see the below request from IAEA. Now that they are publishing the list of what the IEC has received in terms of assistance offers, they are asking the USG to update their portion.

(b)(5)

Jen

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Wednesday, March 23, 2011 3:48 AM
To: LIA02 Hoc
Cc: LIA03 Hoc; Schwartzman, Jennifer
Subject: FW: List of offers

See below from IEC (Elena Buglova). Since NRC asked them to consider being the "clearinghouse," the IEC posted its list on ENAC yesterday afternoon. Now they are asking for the U.S. to provide them with information to feed the table.

This email is UNCLASSIFIED.

From: E.Buglova@iaea.org [mailto:E.Buglova@iaea.org]
Sent: Wednesday, March 23, 2011 8:44 AM
To: Shaffer, Mark R
Subject: List of offers

Morning Marc

You have seen the table. Now we are updating it based on the more detail info from few MSs. Please, let me know if there is anything we need to update for US.

Thanks
Elena

From: Doane, Margaret
Sent: Friday, March 25, 2011 4:05 PM
To: Schwartzman, Jennifer
Cc: Shaffer, Mark
Subject: Phone call with the Ambassador

Importance: High

Bill B. volunteered us to coordinate a Chairman call with Davies on Monday.

(b)(5)

(b)(5)

Outside of Scope

From: Doane, Margaret
Sent: Friday, March 25, 2011 3:52 PM
To: Collins, Elmo; Owen, Lucy
Cc: Kreuter, Jane; Mamish, Nader; Ramsey, Jack
Subject: RE: Elmo Sir - Do you want me to schedule another All Hands Meeting Monday to announce you are going to Japan?? (or would an email to notify them be okay?)

Elmo thanks for inquiring about a cultural briefing. Lucy, please call Jane Kreuter to schedule.
Thanks,
Margie

From: Collins, Elmo
Sent: Friday, March 25, 2011 3:46 PM
To: Owen, Lucy
Cc: Doane, Margaret
Subject: Re: Elmo Sir - Do you want me to schedule another All Hands Meeting Monday to announce you are going to Japan?? (or would an email to notify them be okay?)

I'll send an e-mail

Also - if you noticed on the checklist, I need a cultural briefing from OIP - would you please schedule for Monday morning?

Thank you

Elmo

From: Owen, Lucy
To: Collins, Elmo
Cc: Howell, Art
Sent: Fri Mar 25 15:42:03 2011
Subject: Elmo Sir - Do you want me to schedule another All Hands Meeting Monday to announce you are going to Japan?? (or would an email to notify them be okay?)

From: Doane, Margaret
Sent: Friday, March 25, 2011 3:22 PM
To: Borchardt, Bill
Subject: FW: Background information for call with Amb. Fujisaki
Attachments: 3-25-2011 Chairman Jaczko-Ambassador Fujisaki (3).docx; Bechtel Pump Sys Chron.docx; 03-25-11 0430 RST Assessment Document.docx; March 25 0600 EDT one pager (3) (3).doc; 2011 03 25 Reentry guidance.doc; Fukushima Daiichi Summary-0530 EDT 3-25-2011.pptx; MEMORANDUM TO.docx; Talking Points for Chairman Jaczko.docx

Importance: High

Here's the stuff prepared for the Amb. visit.
Margie

From: Schwartzman, Jennifer
Sent: Friday, March 25, 2011 9:53 AM
To: Pace, Patti; Batkin, Joshua; Warren, Roberta; Bradford, Anna
Cc: Doane, Margaret; Ramsey, Jack; Mamish, Nader
Subject: Background information for call with Amb. Fujisaki
Importance: High

Good morning,

As requested, please find the material electronically. Thank you!

Jennifer Schwartzman Holzman
Office of International Programs
U.S. Nuclear Regulatory Commission
+1-301-415-2317
jennifer.schwartzman@nrc.gov

NOTE: Please note new email address above. My old email address, jks1@nrc.gov, will no longer work on this system. Please update your contact lists accordingly.

OFFICIAL USE ONLY

MEMORANDUM TO: Chairman Jaczko

FROM: Margaret M. Doane, Director
Office of International Programs

SUBJECT: BRIEFING MATERIALS FOR CALL WITH AMBASSADOR
FUJISAKI

Please find attached background information and talking points for your call with Ambassador Fujisaki today, Friday, March 25, 2011, at 11:00 AM. The following information is attached for your reference:

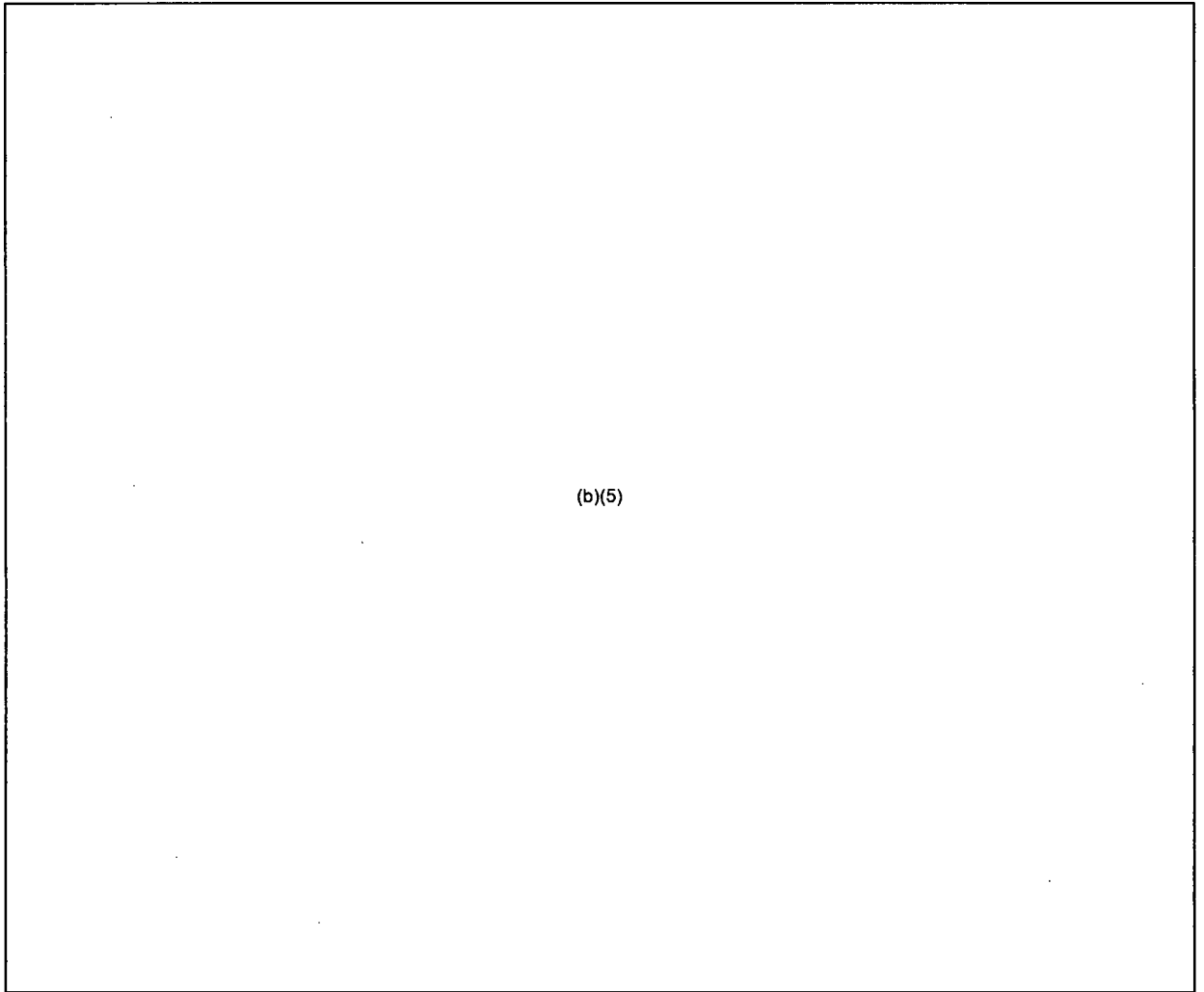
1. Talking points, compiled in coordination with NRC's team in Japan;
2. Background points, compiled by the Executive Team in the Operations Center;
3. Briefing sheet, Fukushima Daiichi, March 25, 2011, 0600 EDT
4. USNRC Emergency Operations Center Status Update, March 25, 2011, 0430 EDT
5. RST – Fukushima Daiichi Status Summary, March 25, 2011, 0530 EDT
6. RST Assessment of Fukushima Daiichi Units, March 25, 2011, 0430 EDT
7. PMT Reentry Guidance, March 25, 2011
8. Bechtel Pumping System

Additional background information will be provided verbally in advance of the call.

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Talking Points for Chairman Jaczko's Call with Ambassador Fujisaki



OFFICIAL USE ONLY

From: Doane, Margaret
Sent: Friday, March 25, 2011 1:19 PM
To: Abrams, Charlotte; Wittick, Brian
Cc: Emche, Danielle; Stahl, Eric; Kreuter, Jane; Mamish, Nader
Subject: RE: Urgent need for talking points for meeting

Hi Danielle and Charlotte,
Thank you so much for drafting these. I sent a revised version upstairs with Jane a few minutes ago. Please ask Jane to send them to you. Somehow she deleted them from my WP documents. I'm not sure where she saved them.

(b)(5)

Margie

From: Abrams, Charlotte
Sent: Friday, March 25, 2011 1:08 PM
To: Wittick, Brian
Cc: Doane, Margaret; Emche, Danielle; Stahl, Eric
Subject: Re: Urgent need for talking points for meeting

The mtg is between Eric and JNTI. Chairman was only supposed to drop in for a moment. (b)(5)

(b)(5)

Margie will talk to Eric.

Sent from my nrc blackberry. Charlotte Abrams 3014152933

From: Wittick, Brian
To: Abrams, Charlotte
Cc: Mamish, Nader; Kreuter, Jane; Meighan, Sean; Nguyen, Quynh; Stahl, Eric; Emche, Danielle
Sent: Fri Mar 25 13:02:31 2011
Subject: RE: Urgent need for talking points for meeting

Thanks Charlotte. (b)(5)

(b)(5)

Thanks
Brian Wittick
Executive Technical Assistant for Reactors
Office of the Executive Director for Operations
U.S. Nuclear Regulatory Commission
301-415-2496 (w); (b)(6) (c)

From: Abrams, Charlotte
Sent: Friday, March 25, 2011 12:50 PM
To: Wittick, Brian
Cc: Mamish, Nader; Kreuter, Jane
Subject: Re: Urgent need for talking points for meeting

Brian we did not think were needed for him to drop in. We have generated something in the last ten minutes and will get up to patti pace and Bobbi quickly.

Sent from my nrc blackberry. Charlotte Abrams 3014152933

From: Wittick, Brian
To: Abrams, Charlotte
Sent: Fri Mar 25 12:45:52 2011
Subject: FW: Urgent need for talking points for meeting

Did OIP generate TPs for the JANTI int'l visit?

Thanks

Brian Wittick
Executive Technical Assistant for Reactors
Office of the Executive Director for Operations
U.S. Nuclear Regulatory Commission
301-415-2496 (w); [redacted] (b)(6) (c)

From: Warren, Roberta
Sent: Friday, March 25, 2011 11:46 AM
To: Wittick, Brian
Cc: Muesse, Mary; Bradford, Anna
Subject: Urgent need for talking points for meeting
Importance: High

The Chairman has been asked to "stop in" at a meeting this afternoon being held by Eric Leeds, NRR and the Japanese organization Japan Nuclear Technology Institute. We need background information and talking points by 1:30 today in order to facilitate his participation. [redacted] (b)(5)

[redacted] (b)(5)

Thanks, Bobbi

Roberta S. Warren
Policy Advisor for Security and Int'l Programs
Office of the Chairman
U.S. NRC
(301) 415-8044
[redacted] (b)(6) (C)

From: Doane, Margaret
Sent: Friday, March 25, 2011 7:54 AM
To: Mamish, Nader
Subject: Fw: Talking Points for the Chairman's meeting on 3/25/11

Here they are.

Sent from an NRC Blackberry
Margaret Doane

From: LIA03 Hoc
To: LIA01 Hoc; LIA08 Hoc
Cc: Foggie, Kirk; Smith, Brooke; Doane, Margaret; LIA02 Hoc
Sent: Fri Mar 25 02:22:18 2011
Subject: Talking Points for the Chairman's meeting on 3/25/11

Talking points:

- -
 -
 -
 -
- (b)(5)

From: Doane, Margaret
Sent: Friday, March 25, 2011 12:05 AM
To: Sharkey, Jeffry
Subject: RE: [REDACTED] (b)(5)

[REDACTED] (b)(5)

Regards,
Margie

From: Sharkey, Jeffry
Sent: Thursday, March 24, 2011 11:01 PM
To: Doane, Margaret
Subject: Fw: [REDACTED] (b)(5)

Margie,

[REDACTED] (b)(5)

I would like to respond to Nakagaw san tomorrow.

Many thanks,

Jeff

----- Original Message -----

From: 中川|air <nakagawa@ruby.famille.ne.jp>
To: Sharkey, Jeffry
Sent: Thu Mar 24 11:38:36 2011
Subject: This is Nakagawa of JNES, Confidential

Sharkey san

[REDACTED] (b)(4),(b)(6)

(b)(4),(b)(6)

Best regards,

Nakagawa
JNES

From: Doane, Margaret
Sent: Friday, March 25, 2011 12:05 AM
To: Foggie, Kirk
Subject: (b)(5)

(b)(5)

Margie

From: Doane, Margaret
Sent: Thursday, March 24, 2011 7:21 PM
To: Henderson, Karen
Cc: Mamish, Nader; Schwartzman, Jennifer; 'Shaffer, Mark R'
Subject: RE: Elements for a draft letter supporting the work of the IAEA in the Japan Crisis

Karen and Jen,

Let's discuss.

(b)(5)

(b)(5)

Margie

-----Original Message-----

From: Henderson, Karen
Sent: Thursday, March 24, 2011 4:40 PM
To: Doane, Margaret
Cc: Mamish, Nader; Schwartzman, Jennifer; Shaffer, Mark R
Subject: FW: Elements for a draft letter supporting the work of the IAEA in the Japan Crisis

(b)(5)

-----Original Message-----

From: Adams, J Stephen [mailto:AdamsJS@state.gov]
Sent: Thursday, March 24, 2011 4:35 PM
To: Henderson, Karen
Cc: Schwartzman, Jennifer; Grice, Thomas; Stahl, Eric
Subject: RE: Elements for a draft letter supporting the work of the IAEA in the Japan Crisis

(b)(5)

SBU

This email is UNCLASSIFIED

J. Stephen Adams, Ph.D.
Office of Multilateral Nuclear and Security Affairs Bureau of International Security and Nonproliferation U.S. Department of State 2200 C Street, NW Washington, DC 20520
(202) 647-3302
(202) 647-5969 (STU-III)

-----Original Message-----

From: Henderson, Karen [mailto:Karen.Henderson@nrc.gov]
Sent: Thursday, March 24, 2011 4:09 PM
To: Adams, J Stephen
Cc: Schwartzman, Jennifer; Grice, Thomas; Stahl, Eric
Subject: RE: Elements for a draft letter supporting the work of the IAEA in the Japan Crisis

Steve,

(b)(5)

Thanks.

Cheers,

Karen

-----Original Message-----

From: Adams, J Stephen [mailto:AdamsJS@state.gov]
Sent: Thursday, March 24, 2011 9:38 AM
To: Lockwood, Dunbar; Henderson, Karen; Freeman, Eric; Grice, Thomas; Scholz, Melissa
Cc: Scheinman, Adam M.
Subject: FW: Elements for a draft letter supporting the work of the IAEA in the Japan Crisis

(b)(5)

SBU

This email is UNCLASSIFIED

J. Stephen Adams, Ph.D.

Office of Multilateral Nuclear and Security Affairs Bureau of International Security and Nonproliferation U.S. Department of State 2200 C Street, NW Washington, DC 20520
(202) 647-3302
(202) 647-5969 (STU-III)

-----Original Message-----

From: Adams, J Stephen
Sent: Thursday, March 24, 2011 9:34 AM
To: Wong, Yvette M; Milich, Daniel S; Scheland, Mark DL; Buck, Christopher L; Kessler, Kurt G; Goodman, Mark W; Leou, Nancy W; Herr, Julie K; Campbell, Todd A; Yarnell, Christian; Carpenter-Rock, Jane H; 'Thomas, Elena'; Shaffer, Mark R; Rovinsky, David J

Cc: Fladeboe, Jan P

Subject: Elements for a draft letter supporting the work of the IAEA in the Japan Crisis

(b)(5)

(b)(5)

SBU
This email is UNCLASSIFIED

From: Doane, Margaret
Sent: Thursday, March 24, 2011 6:58 PM
To: Emche, Danielle
Subject: FW: Attendees in the meeting on March 25th.

Danielle, can you please confirm this. I'm not aware of the plans.
Margie

From: Seiichi Hamada [mailto:Hamada.Seiichi@chuden.co.jp]
Sent: Thursday, March 24, 2011 10:49 AM
To: Doane, Margaret
Subject: Attendees in the meeting on March 25th.

Ms. Doane,

This is Seiichi Hamada from Washington DC office, Chubu Electric Power.
I send you a email on behalf of Mr. Uotani to inform the title & name of attendees in the meeting on March 25th at 2:30pm.
Total number of attendee is 7

Please confirm it.

-Japan Nuclear Technology Institute
Dr. Michio Ishikawa, Chief Advisor
Mr. Tamihei Nakamura, Director & General Affairs Division
Mr. Yoshikazu Suzuki, General Manager, Codes & Standards Division
Mr. Nobuyuki Kitamura, General Manager, Strategic Planning Office
Mr. Tadahisa Nagata, General Manager, Strategic Planning Office

-Interpreter
Ms. Chieko Michishita

-Chubu Electric, Washington DC Office
Mr. Seiichi Hamada, Manager

Seiichi Hamada
Representative, Washington Office,
Chubu Electric Power Co., Inc.
900 17th St., NW, Suite1220
Washington, DC, 20006
Phone 202-775-1960

From: Doane, Margaret
Sent: Thursday, March 24, 2011 12:03 PM
To: Harrington, Holly
Cc: Abrams, Charlotte
Subject: Response to the Reporter

Holly,

We believe that the first time that any information from Japan's Nuclear Industrial Safety Agency (NISA) was transmitted to the NRC was on March 12th at 5:30 US, eastern time. The information was transmitted to the NRC by the Japan Nuclear Energy Safety (JNES) organization. They are the technical support organization for NISA.

Margie

From: Doane, Margaret
Sent: Thursday, March 24, 2011 11:55 AM
To: Harrington, Holly; Abrams, Charlotte
Subject: Fw: Update of the news issued by NISA/METI on the massive earthquake in the Northern Japan
Attachments: News_Releases_No16[2].pdf

FYI. This was the first contact transmitting info to the US from NISA through a JNES contact.
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: okubo-masaki@jnes.go.jp <okubo-masaki@jnes.go.jp>
To: okubo-masaki@jnes.go.jp <okubo-masaki@jnes.go.jp>
Sent: Sat Mar 12 18:32:36 2011
Subject: Fw:Update of the news issued by NISA/METI on the massive earthquake in the Northern Japan

Dear all,

Please find here attached the updated version of the news release issued by NISA/METI on the earthquake in the Northern Japan on 11 March in Japan time.

Sincerely,

Masaki Okubo, Counseling Expert,
Japan Nuclear Energy Safety Organization(JNES) TOKYU REIT Toranomom Bldg, 3-17-1, Toranomom, Minato-ku, Tokyo,
105-0001, Japan Tel:+81-3-4511-1902, FAX:+81-3-4511-1998 E-mail:okubo-masaki@jnes.go.jp URL.
<http://www.jnes.go.jp>

March 12, 2011
Nuclear and Industrial Safety Agency

Seismic Damage Information(the 16th Release)
(As of 20:05 March 12, 2011)

Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Higashidori and Onagawa NPSs, Tohoku Electric Power Co., Inc
Higashidori, Fukushima Dai-ichi, Fukushima Dai-ni and Kashiwazaki-Kariwa NPSs, Tokyo Electric Power Co., Inc. and electricity, gas, heat supply and complex as follows:

1. Summary of Damage(Earthquake at Sanriku-Oki)

- (1) Time of Occurrence: 14:46 (UTC 5:46) March 11, 2011, Friday
- (2) Epicenter: Off-Coast of Sanriku (North Latitude: 38; East Longitude: 142.9), 10km deep, M8.8
- (3) Seismic Intensity in Japanese Scale
<Area of Seismic Intensity Larger Than and Including 4>
7: Northern Miyagi Prefecture
6+: Northern and southern Ibaraki Prefecture
5+: Sanpachi-Kamikita Aomori Prefecture
5-: Chuetsu, Niigata Prefecture
<Municipality of Seismic Intensity Larger than and Including 4>
6+: Naraha Machi, Tomioka Machi, Ookuma-machi, and Futaba-machi, Fukushima Prefecture
6-: Ishinomaki-city and, Onagawa town (by Seismograph of NPP)of , Miyagi Prefecture and Tokaimura, Ibaraki Pref.
5-: Kariwa-village, Niigata Prefecture
4: Rokkasho-village, Higashidori-village, Aomori Prefecture, Kashiwazaki-city, Niigata Prefecture and Yokosuka-city, Kanagawa Prefecture

1: Tomari-village, Hokkaido

2. The status of operation at Power Stations(Number of automatic shutdown(units): 10 (as of 11:00, March12)

a. Onagawa Nuclear Power Station (Onagawa-machi and Ishinomaki-shi, Miyagi Prefecture)

(1) The status of operation

Unit 1 (524MWe): automatic shutdown, cold shut down at 0:58, March 12

Unit 2 (825MWe): automatic shutdown

Unit 3 (825MWe): automatic shutdown, cold shut down at 1:17, March 12

(2) Readings of monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitor readings: No

(3) Report concerning other malfunction

It is confirmed Smoke in the first basement of the Turbine Building was confirmed the extinguished at 22:55 on March 11th.

b. Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co.,Inc.(TEPCO)

(Okuma-machi and Futaba-machi, Futaba-gun, Fukushima Prefecture)

(1) The status of operation

Unit 1 (460MWe): automatic shutdown

Unit 2 (784MWe): automatic shutdown

Unit 3 (784MWe): automatic shutdown

Unit 4(784MW): in periodic inspection outage

Unit 5(784MW): in periodic inspection outage

Unit 6(1,100MW): in periodic inspection outage

(2) Readings at monitoring post etc.

The measurement of radioactive materials in the environmental monitoring area near the site boundary by a monitoring car confirmed the increase in the radioactivity compared to the radioactivity at 04:00, March 12 now.

MP4(Moitoring car data at the site boundary, North-west of Unit1):

1015microSv/h

(15:29, March12)

MP6 (at the main gate) 0.07microSv/h ->3.25 micro Sv/h

(04:00, March12->16:40, March 12)

MP8 (at the observation platform) 0.07microSv/h ->2.06 micro Sv/h
(04:00, March 12->16:40, March 12)

(3) Wind direction/wind speed(as of 13:12, March 12)

Wind direction: South East

Wind Speed: 1.8m/s

(4)Report concerning other malfunction

Article 10* of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ichi)

(*A heightened alert condition)

Article 15** of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ichi, Units 1 and 2)

(** Nuclear emergency situation)

Situation of power source to recover water injection function at the Station.

-Cable from electric power generating cars are under connecting work(as of 15:04, March 12)

-Pressure in the containment vessel has arisen. Steam release is undertaking in order to relieve pressure.(as of 14:40, March 12)

-A radiation level exceeding 500 microSv/h was monitored at the site boundary(15:29, March 12). A large motion occurred due to an earthquake with close epicentre and an large sound was issued near Unit1 and smoke was observed.

c. Fukushima-Daini Nuclear Power Station(TEPCO)

(Naraha-cho/Tomioka-cho, Futaba-gun, Fukushima pref.)

(1) The status of operation

Unit1(1,100MW): automatic shutdown

Unit2(1,100MW): automatic shutdown

Unit3(1,100MW): automatic shutdown, cold shut down at 12:15, March 12

Unit4(1,100MW): automatic shutdown

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Direction and velocity of wind (As of 17:43, 12 March)

Direction: South-southeast

Velocity: 5.9m/s

(4) Report concerning other malfunction

No Report of fire, etc.

Article 10* of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ni, Unit 1)

(*A heightened alert condition)

Article 15** of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ni, Units 1,2 and 4)

(**Nuclear emergency situation)

3. Industrial Safety

○Electricity

* Tokyo Electric Power Co. (as of 18:54, March 12, 2011)

Scale of loss of electrical power: approx. 500 thousand houses

Power loss area:

Ibaraki Pref.: Whole area (approx. 488 thousand houses),

Tochigi Pref.: Mogi-cho, etc. (approx 7 thousand houses)

Chiba Pref.: Shibayama-cho, etc. approx 6 thousand houses)

Saitama Pref: Kuki-shi: approx 500 houses

* Tohoku Electric Power Co. (as of 18:00, March 12, 2011)

Scale of loss of electrical power: approx.3,150 thousand houses (under investigation)

Power loss area:

Iwate Pref.: Whole area, (approx 725 thousand houses)

Akita Pref: Whole area (approx 353 thousand houses)

Miyagi Pref: whole area (approx 1,351 thousand houses)

Aomori Pref.: Almost whole area (approx 380 thousand houses)

Yamagata Pref: Almost whole area (approx 187 thousand houses)

Fukushima Pref: Some parts of Naka-dori and Hama-dori (approx 151 thousand houses)

Niigata Pref.: All of the power loss area has been recovered(as of 15:51, March 12)

* Hokkaido Electric Power Co. (as of 14:00, March 12, 2011)

All of the power loss area has been recovered.

*Chubu Electric Power Co. (as of 17:11, March 12, 2011)

Nagano Pref: All of the power loss has been recovered.(as of 17:11, March 12)

oGeneral Gas (as of 17:40, March 12)

The Japan Gas Association dispatched its six advance teams of thirty staff (five teams for Sendai and one team for Joban area) at 07:00, 12 March upon request from Sendai-shi.

Sendai-city municipal Gas, Kesenuma-city municipal Gas, Ishinomaki Gas have trouble contacting at 1:00 12 March. The Japan Gas Association confirmed that there are no supply disruption in the supply area of city gas in Hokkaido, Yamagata, and Akita prefecture.

* Tokyo Gas Co. (whole area of Hitachi-shi)

Hitachi branch: 30,007 houses are in supply disruption. There is no damage in equipment, however, equipment in inoperable due to loss of power. Walkdown unit of eight person departed at 18:45, March 11 and already arrived at 06:00, March 12. Recovery plan will be established by 12 afternoon. Time of recovery is not certain.

Eastern part of Joso: 453 houses were in supply disruption in Ushiku (supply restarted at 17:10, March 11)

471 houses were in supply disruption in Ushiku-shi
Ushiku-cho(supply restarted at 22:36 March11)

77 houses are in supply disruption in
Ryuugasaki(supply restarted at 16:20, March 11)

40 houses are in supply disruption in Nishi-ku,
Yokohama-shi(supply restarted at 17:29, March 11)

Gas leaked from a Nozzle of an LNG tank at Sodegaura but no ignition (restored on 02:30, March 12)

*Gas Bureau of Sendai-shi: whole supply disruption (approx.360 thousand houses)

*Shiogama Gas Co.: approx.12,382 houses are in supply disruption. Shiogama-shi, Tagashiro-shi, Nanahama-shi and Rihu-syo are out of service due to no supply from Gas Bureau of Sendai)

*Hachinohe Gas (Several part of Hachinohe-shi): approx.1,300 houses are in supply disruption.

*Kamaishi Gas Co. : approx.10,000 houses are in supply disruption. First floor of this Gas facility sank.

*Hatano Gas Co.: Approx. 380 houses are in supply disruption. Restoration will be expected 13th of March.

*Keiyo Gas Co.: Leakage occurred at 5 locations of middle pressure conduit
Leakage occurred at many parts of Low pressure conduits
5,445 houses in Urayasu-shi are in supply disruption.
Supply to Yachiyo Station stopped.

*Kujukuri choei Gas: Approx 258 houses are in supply disruption.

*Atsugi Gas Co: leakage occurred at 1 location of middle pressure conduit.

*Fukushima Gas Co.: (A part of Fukushima-shi) About 2,726 houses are in supply disruption

*Tohoku Gas (part of Shirakawa-shi): 300 houses are in supply disruption

*Joban kyodo Gas(Iwaki-shi): 14,000 houses (whole customer) are in supply disruption

*Tobu Gas Fukushima-shisya: 7,500 houses are in supply disruption (Koriyama-shi, Iwaki-shi) leakage occurred at 2 locations of middle pressure conduit, leakage occurred at 54 locations of low pressure conduits and another leakage occurred on 85 locations. 39 houses in supply disruption.

*Tobu Gas (a part of Tsuchiura-shi) 7,500 houses in supply disruption
(a part of Mito-shi) 330 houses in supply disruption

*Joban Toshi Gas (Mito-shi) 60 houses in supply disruption

*Tosai Gas(Kasukabe-shi) Gas leakage occurred from conduit. 150 houses in apartment are in supply disruption. Supply restarted in the afternoon 12 March.

*Odawara Gas(Odawara-shi)

leakage occurred at 1 locations of low pressure branch conduit and 3 locations of ex-core inner conduit and have restored at 21:30 11 March. Other areas are under investigation.

oCommunity Gas(as of 15:50, March 12)

Severe damage has not been reported to Japan Community Gas Association

so far. No information is available about the damage in North part of Ibaraki prefecture.

*Tokyo Gas Energy (North part of Ibaraki): Factory stopped supply to 943 houses in Nakago-New Town due to the leakage from pipe.

*Sato Kosan (based in Iwatsuki-ku, Saitama City) Iwatsuki-housing complex: Gas leakage occurred from conduit. 451 sites are in supply disruption.

*Syutoken Gas (based in Sakura-City) Chitose-housing complex: 1,320 houses are in supply disruption

*Kashima Marui Gas (Kamisu-shi): Gas conduit was damaged. 527 houses are in supply disruption. Time of recovery is not certain.

*Nagashima Central Gas (Katori-shi) Tamatsukuri-housing complex, 222 houses are in supply disruption due to short circuit now under recovery works.

*Taihei Sangyo (Takahagi-shi) Hagigaoka-housing complex 112 houses are in supply disruption due to short circuit. Recovery has completed at 21:00 11 March. (Takahagi-shi) Ishidaki-housing complex 648 houses and (Hitachi-shi) Hitachi-Densen Akasaka-housing complex 222 houses are in supply disruption. Under recovery works.

*Imaichi Gas: Gas leakage occurred from conduit at the simple gas complex in Nikko-shi: 240 houses were in gas supply disruption.

*Nihon Gas: Gas leakage occurred from conduit at simple gas complex in the jurisdiction: 76 houses in Nasu-karasuyama-shi, 97 houses in Inashiki-shi, 594 houses in Tokai-mura, Natsu-gun, 370 houses in Yaita-shi, and 3,299 houses in Itako-shi were in gas supply disruption.

These areas other than Itako-shi will be restored on March 12. Residents in 1876 houses of Hinode housing complex in Itako-shi evacuated from this region due to liquefaction of the ground. Time of recovery is not certain.

212 houses in Noda-shi were in gas supply disruption. This area has been restored in March 11.

*Horikawa Industry (Bando city, Ibaraki Pref.) : Iwai Greenland Due to liquefaction of the ground, 566 houses are in supply disruption.

*Tajima : 250 houses were in gas supply disruption at the simple gas complex in Hachioji-city. This area will be restored within March 12.

○Gas conduit Operators (as of 15:50, March12)

*JX Nikko Nisseki Energy: Hachinohe LNG Base

Premise, electric room and in-house electricity generator equipment, were flooded by the 2nd wave of tsunami and the gas supply was stopped.

According to Japan National Gas Association, there are no damage to pipelines of conduit-trans port companies.(as of 23:00, March 11)

○Heat supply (as of 15:50, March12)

West side area at Morioka station: heat supply was stopped due to power failure.

*Yamagata Netsu Kyokyu (Yamagata-shi): Supply was stopped due to emergency shut down condition.

*Onahama Haiyu (Onahama, Iwaki-shi): stopped heat supply due to the breakage of pipe. Heat supply pipes underground might be affected. Time of recovery is not certain.

*"HITACHI NETSU ENERGY"(Hitachi City): stopped heat supply due to the electrical outage at 15:19, March 11.

*"CHIBA NETSU KYOKYU"(Chiba-city): stopped freezer, etc. at 16:19, March 11. Supply was stopped and walkdown is conducted at 16:19, March 11.

*"NISHI-IKEBUKURO NETSU KYOKYU": stopped freezer and boiler at 15:45, March 11.

*"TOKYO NETSU KYOKYU";

-stopped boiler in Takeshiba and Yurakucho areas at 15:20, March 11
-stopped supply to one of the building complex at Hikarigaoka for approx. 3 hours due to the leakage of pipe at 21:35, March 11(Restart supplying at 00:05, March 12)

*"Yokohama Business Park NETSU KYOKYU (Hodogaya-ku, Yokohama city)

15:50 Stopped steam and cold water supply to PREZZO building

16:20 restored by temporary repair

○Complex (as of 11:00, March 12)

*Cosmo Oil factory Chiba branch

A column of Butane Butylene storage tank was broken. Fire occurred due to gas leakage. One person suffered serious-injury, 4 persons suffered minor injury.

*JX Nippon Oil&Energy Corporation Sendai oil factory (sendai-city, Miyagi prefecture)

-Fire occurred from an explosion of low temperature LPG tank

4. Action taken by NISA

(March 11)

14:46 Set up of the NISA Emergency Preparedness Headquarters (Tokyo) immediately after the earthquake

15:42: TEPCO reported to NISA in accordance with Article 10 of the Act on Special Measures Concerning Nuclear Emergency Preparedness regarding Fukushima Dai-ichi, Units 1,2 and 3.

16:36: TEPCO judged the event in accordance with Article 15 of the Act for Special Measures Concerning Nuclear Emergency Preparedness regarding Fukushima Dai-ichi, Units 1 and 2.(notified to NISA at 16:45)

18:08: Unit 1 of Fukushima Dai-ichi notified NISA of the situation of the Article 10 of Act on Special Measures Concerning Nuclear Emergency Preparedness.

18:33: Units 1,2 and 4 of Fukushima Dai-ichi notified NISA of the situation of

the Article 10 of Act on Special Measures Concerning Nuclear Emergency Preparedness.

19:03 : Government declared the state of nuclear emergency

20:50: Fukushima prefecture's emergency preparedness headquarters - issued a directive regarding the accident occurred at Fukushima-Dai-ichi Nuclear Power Station, TEPCO that the residents living in the area of 2km radius from Unit 1 of the Nuclear Power Station must evacuate.(The population of this area is 1,864)

21:23: Directives from Prime Minister to Governor of Fukushima, Mayor of Ookuma and Mayor of Futaba were issued regarding the accident occurred at Fukushima-Dai-ichi Nuclear Power Station, TEPCO, pursuant to Paragraph 3, Article 15 of the Act for Special Measures Concerning Nuclear Emergency Preparedness as follows:

-Residents living in the area of 3km radius from Unit 1 of the Nuclear Power Station must evacuate.

-Residents living in the area of 10km radius from the Unit 1 must take sheltering.

(March12)

5:22 Unit 1 of Fukushima Dai-ichi notified NISA of the situation of the Article 15 of Act on Special Measures Concerning Nuclear Emergency Preparedness.

5:32 Unit 2 of Fukushima Dai-ichi notified NISA of the situation of the Article 15 of Act on Special Measures Concerning Nuclear Emergency Preparedness.

05:44 Residents living in the area of 10km radius from unit 1 of the Nuclear Power Station must evacuate by the Prime Minister Direction.

06:07 Regarding Units 1,2 and 4 of Fukushima Dai-ichi NPS, TEPCO reported NISA in accordance with Article 15 of Act on Special Measures Concerning Nuclear Emergency Preparedness.

6:50 According to the article 64, 3 of nuclear regulation act, government order to control the internal pressure in Fukushima-daiichi unit No. 1 and 2

7:45 Directives from Prime Minister to Governor of Fukushima, Mayors of Hirono, Naraha, Tomioka, Ookuma and Futaba were issued regarding the accident occurred at Fukushima-Dai-ichi Nuclear

Power Station, TEPCO, pursuant to Paragraph 3, Article 15 of the Act for Special Measures Concerning Nuclear Emergency Preparedness as follows:

- Residents living in the area of 3km radius from Fukushima-Dai-ni Nuclear Power Station must evacuate.
- Residents living in the area of 10km radius from Fukushima-Daini NPS must take sheltering

17:00 Notification pursuant to Article 15 of the Act for Special Measure Concerning Nuclear Emergency Preparedness since the radiation level exceeded the acceptable level of Fukushima Dai-ichi Nuclear Power Station.(NPS).

18:25 Prime Minister directed evacuation of the residents living within the 20km radius from the Fukushima Dai-ichi NPS

19:55 Directives from Prime Minister was issued regarding sea water injection to Unit No.1 of Fukushima Dai-ichi NPS.

20:05 According to the article 64, 3 of nuclear regulation act and concerning to directives from Prime Minister, government ordered to inject sea water Unit No.1 of Fukushima Dai-ichi NPS.

Status of Residents Evacuation

(Information from the Resident Safety Team of OFC at 16:20 March 12)

Resident Safety Team of ERC

Ookuma-cho Approx 3,500 in grasped number approx 4,000 residents completed (refugee: Miyakoji junior high school)

Futaba-cho Approx 1,800 in grasped number approx 2,000 residents completed (refugee: Kawamata elementary school)

Tomioka-cho Approx 15,650 in grasped number approx 16,000 residents completed (refugee: Kawachi village office)

Namie-cho Grasped number approx 17,000 residents completed (refugee: Tsushima Kasseika Center, Tsushima branch)

Naraha-cho Grasped number approx 7,800 residents completed (refugee: Kusano junior high school, Taira Dairoku elementary school)

Among these towns, public announcement are implemented by wireless emergency preparedness radio waves and walk down is also done in these some area.

Residents live in 10km radius

Vicinity of Fukushima Daiichi		Vicinity of Fukushima Daini		
	0-10km		0-3km	0-10km
Tomioka-cho	14,808	Tomioka-cho	6,534	15,961
Ookuma-cho	11,363	Ookuma-cho	-	7,127
Futaba-cho	7,243	Futaba-cho	-	1,238
Namie-cho	17,793	Namie-cho	1,515	8,100
Total	51,207	Total	8,049	32,426

Some area of Fukushima-daiichi 10km area and Fukushima-daini 10 km area are overlapped that cause duplication of resident number.

(Contact Person)

Mr. Toshihiro Bannai

Director, International Affairs Office,
NISA/METI

Phone:+81-(0)3-3501-1087

From: Doane, Margaret
Sent: Thursday, March 24, 2011 8:18 AM
To: Foggie, Kirk; Emche, Danielle
Cc: Smith, Brooke; Henderson, Karen; Abrams, Charlotte
Subject: Re: NISA Call-in number

Got it. Thanks for the quick reply. Just getting in and will review.

Sent from an NRC Blackberry
Margaret Doane

From: Foggie, Kirk
To: Doane, Margaret; Emche, Danielle
Cc: Smith, Brooke; Henderson, Karen; Abrams, Charlotte
Sent: Thu Mar 24 07:24:37 2011
Subject: Re: NISA Call-in number

Margie,

(b)(5)

Kirk
Sent from Blackberry.

From: Doane, Margaret
To: Foggie, Kirk; Emche, Danielle
Cc: Emche, Danielle; Smith, Brooke; Henderson, Karen; Abrams, Charlotte
Sent: Thu Mar 24 07:02:10 2011
Subject: Re: NISA Call-in number

Kirk,

(b)(5)

Thanks.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Pace, Patti
To: Foggie, Kirk; Emche, Danielle

Cc: Doane, Margaret; Batkin, Joshua; Monninger, John; Smith, Brooke; Warren, Roberta; Speiser, Herald; Bradford, Anna; Coggins, Angela

Sent: Thu Mar 24 06:20:28 2011

Subject: Re: NISA Call-in number

Thanks, Kirk. Our office will initiate the call at the designated time.

Patti Pace

U.S. Nuclear Regulatory Commission

(301) 415-1820

From: Foggie, Kirk

To: Emche, Danielle

Cc: Doane, Margaret; Pace, Patti; Batkin, Joshua; Monninger, John; Smith, Brooke

Sent: Thu Mar 24 06:02:15 2011

Subject: NISA Call-in number

All,

The call between the Chairman and the NISA Director General is confirmed for Thursday evening March 24 at 5:30 pm (EST). The number for the Chairman to call is +81-3-5512-8501, wait for a signal then press (b)(6) I have also provided the Japanese with the Chairman's general office number.

Kirk

From: Doane, Margaret
Sent: Thursday, March 24, 2011 7:07 AM
To: Foggie, Kirk; Smith, Brooke
Cc: Emche, Danielle; Dorman, Dan; Casto, Chuck
Subject: Fw: NRC JapanTeam Meetings - March 23
Attachments: Talking Points for Chairman telecom with NISA Director General.docx

Attached are draft Talking points and background. The background is our latest info, but it's 24 hrs old. Please revise as appropriate.

Thanks
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Henderson, Karen
To: Doane, Margaret
Cc: Abrams, Charlotte; Mamish, Nader
Sent: Wed Mar 23 18:36:21 2011
Subject: RE: NRC JapanTeam Meetings - March 23

First shot at the talking points for the Chairman for you to mull over tonight. We can fill in gaps, make changes in the morning. When you are comfortable with this, I will share it with Danielle, Kirk, Brooke, others - as you want. Just let me know.

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 5:44 PM
To: Henderson, Karen
Subject: Fw: NRC JapanTeam Meetings - March 23

For call

Sent from an NRC Blackberry
Margaret Doane

From: LIA02 Hoc
To: Doane, Margaret; Mamish, Nader
Cc: LIA03 Hoc; Abrams, Charlotte; Schwartzman, Jennifer; Foggie, Kirk; Smith, Brooke; Kreuter, Jane
Sent: Wed Mar 23 05:42:13 2011
Subject: NRC JapanTeam Meetings - March 23

Information from call with Kirk and Brooke concerning today's (March 23) meetings:

NISA – Meeting with NRC JapanTeam and NISA Senior Leadership was successful. Meetings between NRC/NISA continue to improve as the organization's staffs continue build relationships and become more comfortable with one another. Discussed the need for NISA and TEPCO to align and better coordinate. Another meeting is scheduled between NRC/NISA for 11am (Japan time) to discuss their main areas-of-interest: 1) radiation monitoring; 2) severe accident

mitigation in the near term; and 3) mid-to-long-term strategies for coping with the situation, including decommissioning the sites and advice from experiences with TMI.

TEPCO - Meeting with NRC JapanTeam and PMT via teleconference. Main topic of discussion was saltwater deposition. NRC informed TEPCO that they believe that TEPCO should start injecting freshwater (with or without boron) as soon as feasible. NRC, DOE and TEPCO are all reanalyzing their information (NRC was believed to be the most conservative in their predictions).

Cabinet Minister – Meeting is planned for tonight at 8:00pm (Japan time) to clarify the organizational structure in the current situation.

Talking Points for Chairman telecom with NISA Director General (XXX)

(March 24, 2011)

- I would like to offer my condolences to all those affected by the tragic events in Japan following the recent earthquake and tsunami. The loss of life and environmental consequences are devastating. We are humbled by the magnitude and scale of the disaster, and by the inner strength of the Japanese people in bearing this heavy blow. I have confidence your country will move forward with determination and skill to rebuild your vibrant country.
- NISA and the NRC have long worked together, sharing information and operating experience, conducting confirmatory research, and discussing regulatory strategies. We hope that the experienced staff who are currently in Japan are providing valuable support to your response to the Fukushima Dai'ichi nuclear power plant events.
- We would like to continue our help in ways that are most supportive of your needs. Please let me know if there are other disciplines or skills that you can identify which will help you address your needs on the ground.
- I believe that, as has been our experience in events in the United States and elsewhere in the world, you are just at the beginning of this recovery endeavor. I want to assure you that, in addition to our continued support for the immediate needs concerning the Fukushima plants, over time we anticipate returning to the regular interactions between our two regulatory agencies.

Background on talking points

NISA – 3/23 meeting with NRC JapanTeam and NISA Senior Leadership was successful. Meetings between NRC/NISA continue to improve as the organization's staffs continue to build relationships and become more comfortable with one another. We discussed the need for NISA and TEPCO to align and better coordinate their activities.

Another meeting is scheduled between NRC/NISA for 3/23 at 11am (Japan time) to discuss their main areas of interest:

- 1) radiation monitoring;
- 2) severe accident mitigation in the near term; and
- 3) mid-to-long-term strategies for coping with the situation, including decommissioning the sites and advice from experiences with TMI.

TEPCO – 3/23 meeting with NRC JapanTeam and NRC headquarters Protective Measures Team via teleconference. Main topic of discussion was saltwater deposition. NRC informed TEPCO that NRC believes that TEPCO should start injecting freshwater (with or without boron) as soon as feasible. NRC, DOE and TEPCO are all reanalyzing their information (NRC was believed to be the most conservative in their predictions).

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 6:53 PM
To: Henderson, Karen
Subject: Talking points for US team (including INPO)

I had written this earlier in the day – not sure if it's helpful.

(b)(5)

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 6:50 PM
To: Jones, Andrea; Henderson, Karen
Subject: FW: Given by Ambassador Davies a couple of hours ago.
Attachments: BOG-21MAR11-Special Session-Japan-NA Group Statement-FINAL-AS DELIVERED.pdf

Please put in the briefing book. Anything in here that we should consider as our high level messages, instead of what I sent.
Margie

-----Original Message-----

From: LIA02 Hoc
Sent: Monday, March 21, 2011 9:14 AM
To: Doane, Margaret; Mamish, Nader
Subject: FW: Given by Ambassador Davies a couple of hours ago.

FYI

-----Original Message-----

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Monday, March 21, 2011 9:01 AM
To: LIA02 Hoc; LIA03 Hoc
Cc: Schwartzman, Jennifer
Subject: Given by Ambassador Davies a couple of hours ago.

This email is UNCLASSIFIED

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 6:28 PM
To: Ramsey, Jack
Subject: FW: Supplemental Funding Request for Japan Event Support

FYI

From: Dyer, Jim
Sent: Tuesday, March 22, 2011 7:46 AM
To: Mamish, Nader
Cc: Doane, Margaret
Subject: RE: Supplemental Funding Request for Japan Event Support

(b)(5)

From: Mamish, Nader
Sent: Tuesday, March 22, 2011 7:10 AM
To: Dyer, Jim
Cc: Doane, Margaret
Subject: RE: Supplemental Funding Request for Japan Event Support

(b)(5)

From: Dyer, Jim
Sent: Monday, March 21, 2011 5:45 PM
To: Doane, Margaret; Mamish, Nader
Subject: FW: Supplemental Funding Request for Japan Event Support

Margie & Nader,

Sorry I left you off initial distribution of our ballpark estimates for continued event response and lessons learned estimates. I sent the below e-mail to OEDO to get their first reaction to the inputs for the Chairman's requested supplemental budget request. I would appreciate any thoughts you might have on the estimates also. Please hold close, as we've gone out to get detailed estimates from some of the offices and I don't want to prejudice their inputs. Thks Jim

From: Dyer, Jim
Sent: Monday, March 21, 2011 5:35 PM
To: Borhardt, Bill; Virgilio, Martin; Ash, Darren; Weber, Michael; Muessle, Mary; Jacobs-Baynard, Elizabeth; Kasputys, Clare
Cc: Brown, Milton; Golder, Jennifer; Peterson, Gordon
Subject: Supplemental Funding Request for Japan Event Support

The Chairman requested OCFO prepare a package for a proposed supplemental funding for the Japan Event Response and Lessons Learned efforts. OCFO has developed preliminary cost estimates for the following event response scenario and I took a shot at ballparking the lessons learned effort

(b)(5)

(b)(5)

Can you give me your thoughts on these "bounding " analyses? Thanks. Jim

Event Response Lasts 6 Months:

(b)(5)

Lessons Learned Task Force Lasts for 9 Months (6Mos FY 2011 and 3 Mos FY 2012):

(b)(5)

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 6:27 PM
To: Abrams, Charlotte
Cc: Smirolfo, Elizabeth; Young, Francis; Mamish, Nader
Subject: FW: experts for cleaning-up

Importance: High

Can you please get this in the right box and have it answered.
Margie

-----Original Message-----

From: Nieh, Ho
Sent: Tuesday, March 22, 2011 7:14 AM
To: Doane, Margaret
Cc: Mamish, Nader
Subject: FW: experts for cleaning-up
Importance: High

Margie - read Hiroshi's message again, you were right it was for Kurchatov contacts, not NRC as I was thinking.

Can you please respond to Yamagata?

As I mentioned, I replied and told him that I would look into it and get back to him - I could let him know that OIP will do so.

Many thanks.

Ho

Ho Nieh
Chief of Staff
Office of Commissioner William C. Ostendorff U.S. Nuclear Regulatory Commission
(301) 415-1811 (office)
(b)(6) (mobile)
(301) 415-1757 (fax)
ho.nieh@nrc.gov

-----Original Message-----

From: 山形 浩史 [H.Yamagata] [mailto:yamagata-hiroshi@meti.go.jp]
Sent: Friday, March 18, 2011 2:27 AM
To: Nieh, Ho; rghwang@sandia.gov; kjonietz@lanl.gov
Subject: experts for cleaning-up
Importance: High

Dear Dr. Ho Nieh, NRC
Dr. Robert Hwang, SNL

Dr. Karl Jonietz, LANL

I hope you recall working with me.

As you know, Japan is facing the worst disaster caused by Tsunami, especially the severe accidents in Fukushima-I Nuclear Power Plant.

I believe we could overcome these ordeals.

After we succeed cooling down Fukushima-I NPPs, we will need to make a list of experts for cleaning-up.

If you know the organizations and experts for cleaning-up, please let me know the names.

Especially if you know experts or friends in Kurchatov, Russia, please also let me know.

I am asked some advices by HQ, so I am asking you in unofficial way.

Thank you in advance.

Best regards,

P.S. Although my apartment has some problems, my family is fine!

Hiroshi YAMAGATA, Ph.D.

Director-General

Natural Resources, Energy and Environmental Department Chugoku Bureau Ministry of Economy, Trade and Industry
6-30 Kamihatchobori, Naka-ku, Hiroshima-city 730-8531, JAPAN

Tel: +81-82-224-5731 Fax: +81-82-224-5649

Email: yamagata-hiroshi@meti.go.jp

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 12:31 PM
To: Vietti-Cook, Annette; Mamish, Nader
Subject: RE: EWASH WH0143

0
Thanks Annette.
Margie

From: Vietti-Cook, Annette
Sent: Tuesday, March 22, 2011 1:40 PM
To: Doane, Margaret; Mamish, Nader
Subject: FW: EWASH WH0143

I should have sent this to you as well. Note second to last bullet.

From: Vietti-Cook, Annette
Sent: Tuesday, March 22, 2011 1:25 PM
To: Jaczko, Gregory; Svinicki, Kristine; Apostolakis, George; Magwood, William; Ostendorff, William
Cc: Batkin, Joshua; Coggins, Angela; Bradford, Anna; Loyd, Susan; Sharkey, Jeffrey; Sosa, Belkys; Bubar, Patrice; Nieh, Ho; Borchardt, Bill; Weber, Michael; Virgilio, Martin; Trapp, James; Brenner, Eliot; Hayden, Elizabeth
Subject: FW: EWASH WH0143

Summary of Conclusions from last Tuesday's March 15 Deputies meeting on Japan received today, Chairman and Jim Trapp participated.

From: Giles, Vanessa
Sent: Tuesday, March 22, 2011 12:31 PM
To: Vietti-Cook, Annette
Cc: Wright, Darlene; Lewis, Antoinette; Mike, Linda; McKelvin, Sheila; Champ, Billie
Subject: FW: EWASH WH0143

Annette, as we discussed, here is the eWash message we received 3/22/2011 @ 12:25pm

We have already receipted for the message.

Let me know if you need anything else.

From: NRCHQ [mailto:NRCHQ.Resource@nrc.gov]
Sent: Tuesday, March 22, 2011 12:24 PM
To: Dodmead, James; Mangefrida, Michael; Giles, Vanessa; Parsons, Darryl
Subject: FW: EWASH WH0143

From: eWash-WHSR[SMTP: (b)(6)]
Sent: Tuesday, March 22, 2011 12:23:44 PM
To: ewash@state.gov; (b)(6); DOI Watch_office@ios.doi.gov;
Fay_ludicello@ios.doi.gov; ewash@doc.gov;

Ekaterini Malliou (HHS Executive Secretariat); HHSComSec@hhs.gov;
HHSExecSec@hhs.gov ; DOE.Commcenter@in.doe.gov;
CommCenterStaff@hq.dhs.gov; martin.ihnnc@epa.gov; USAID;
 (b)(6); NRCHQ

Cc: eWash-WHSR
 Subject: EWASH WH0143
 Auto forwarded by a Rule

CLASSIFICATION: UNCLASSIFIED

FROM: NSS	PH: (b)(6)	ROOM: 302A
SUBJECT: SOC for the 3/15 Deputy Level Mtg. on the Japanese Earthquake and Pacific Tsunami		PAGES: 7

PLEASE DELIVER TO:

<u>LOCATION</u>	<u>DELIVER TO</u>	<u>ROOM</u>	<u>PHONE</u>
STATE	EXECUTIVE SECRETARY		
DEFENSE	EXECUTIVE SECRETARY		
INTERIOR	DIRECTOR OF EXECUTIVE SECRETARIAT		
COMMERCE	DIRECTOR, EXECUTIVE SECRETARIAT		
DHHS	EXECUTIVE SECRETARY		
ENERGY	DIRECTOR, EXECUTIVE SECRETARIAT		
DHS	EXECUTIVE SECRETARY		
EPA	CHIEF OF STAFF		
USAID	ACTING EXECUTIVE SECRETARY		
JCS	SPECIAL ASSISTANT FOR INTERAGENCY AFFAIRS (J-5)		

NRC

**SECRETARY OF THE
COMMISSION**

SPECIAL DELIVERY INSTRUCTIONS/REMARKS:

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 11:12 AM
To: Casto, Chuck; Dorman, Dan
Subject: Replacements for OIP Staff on your Team

Importance: High

Hello Chuck,

I need some advice before I send replacements for the OIP staff on your team. As I understand the activities going on in the next few weeks the role of OIP would be primarily to facilitate and coordinate meetings. Now that the event is settling down, important international policy advice should be coming from OIP head quarters in the same way that technical advice is coming from head quarters.

(b)(5),(b)(6)

Margie

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 10:26 AM
To: 'Flynn, David Thomas. (HQ-TH000)'; 'Goorevich, Richard'
Cc: Cool, Donald
Subject: RE: Japan

Hello David,
I'm going to refer your questions to a member of the NRC staff working on the radiation monitoring issues. Dr. Don Cool can give you answers or refer you to others.
Our NRC staff remains in place, but they are all adults. The issues you are raising regarding families with children would be different than with adults.
Best of luck,
Margie Doane

From: Flynn, David Thomas. (HQ-TH000) [mailto:david.flynn@nasa.gov]
Sent: Tuesday, March 22, 2011 5:35 PM
To: Goorevich, Richard; Doane, Margaret
Subject: RE: Japan

Thanks Rich...Margie, any NRC guidance? We are following the various public announcements but trying to figure out when/if we need to pull our guy and/or his family out from Tokyo.

David T. Flynn
Export Control and Interagency Liaison Division
Office of International and Interagency Relations
NASA-HQ
202-358-1792
JWICS: david.flynn@nasa.ic.gov
SIPR: david.flynn@nss.sgov.gov

From: Goorevich, Richard [mailto:Richard.Goorevich@nnsa.doe.gov]
Sent: Tuesday, March 22, 2011 5:32 PM
To: Flynn, David Thomas. (HQ-TH000); 'MMD@nrc.gov'
Subject: Re: Japan

I don't. Let me give you to Margie Doane at NRC. She can probably advise the best. They have boots on the ground there.

Rich

From: Flynn, David Thomas. (HQ-TH000) <david.flynn@nasa.gov>
To: Goorevich, Richard
Sent: Tue Mar 22 17:21:51 2011
Subject: Japan

Rich

NASA has a representative working in Embassy Tokyo and we are trying to decide whether we should pull him and/or his family out due to the ongoing issues there. State and DoD have authorized the voluntary departure of eligible family members and we are trying to figure out what we should do with our guy and his family. Do you know what DOE is suggesting?

David T. Flynn
Export Control and Interagency Liaison Division
Office of International and Interagency Relations
NASA-HQ
202-358-1792
JWICS: david.flynn@nasa.ic.gov
SIPR: david.flynn@nss.sgov.gov

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 10:09 AM
To: Mamish, Nader
Subject: RE: (b)(6)

Nader,
(b)(6) I hope everything is ok. I'm trying to pick up the bits and pieces of issues that you've got well under control. I'm going to delegate them to Steve D. and Jack, so no need to worry. Hope that gives you what you need to concentrate on the things you have going on.
Margie

From: Mamish, Nader
Sent: Tuesday, March 22, 2011 9:38 PM
To: Doane, Margaret
Cc: Abrams, Charlotte; Owens, Janice; Breskovic, Clarence; Armstrong, Janine; Kreuter, Jane; Larson, Emily; Floyd, Daphene
Subject: (b)(6)

Margie: As I indicated last week, (b)(6)
(b)(6) Thanks for understanding and for your support

Charlotte: Could you please see Margie with your recommendation regarding OIP staff travel to Japan? If you need the names/available dates you provided me, they are in my office. Thanks

I will call tomorrow to check in on how things are going.

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 9:20 AM
To: Borchardt, Bill
Cc: Skeen, David
Subject: RE: CNS

(b)(5)

Margie

From: Borchardt, Bill
Sent: Tuesday, March 22, 2011 5:06 PM
To: Doane, Margaret
Cc: Skeen, David
Subject: CNS

Margie,
Is there a diplomatic way that OIP could find out if the events in Japan will have any impact on Li Ganji's participation at the CNS review mtg? Just some scenario planning on my part for selfish reasons.
Bill

From: Doane, Margaret
Sent: Monday, March 21, 2011 10:46 PM
To: Foggie, Kirk; Smith, Brooke
Subject: Fw: Please contact Brooke and Kirk

Please see new info. His name is Hochevar. I'm not sure there would be an issue with clearance, but he gave details. Thanks.

Sent from an NRC Blackberry
Margaret Doane

From: Hochevar, Albert R. (INPO) <HochevarAR@INPO.org>
To: Doane, Margaret
Cc: Webster, Bill E (INPO) <WebsterWE@INPO.org>; Farr, David M (WANO) <FarrDM@INPO.org>
Sent: Mon Mar 21 21:47:49 2011
Subject: RE: Please contact Brooke and Kirk

Ms Doane,

I appreciate the introduction to your team in Tokyo. The following information may be helpful if there are security clearance questions.

(b)(6)

I have authorized INPO to provide my social security information, birth date, and any other personal data, including background checks, to any government agency that may help in the access process.

Also please note that my last name is spelled Hochevar with a v and not a b to prevent confusion.

Thanks,
Albert Richard Hochevar
Deputy Director,
Organizational Effectiveness Team Leaders
Institute of Nuclear Power Operations
Work (770) 644-8382
Cell (b)(6)

From: Farr, David M (WANO)
Sent: Monday, March 21, 2011 7:25 PM
To: Doane, Margaret
Cc: Webster, Bill E (INPO); Hochevar, Albert R. (INPO)
Subject: Re: Please contact Brooke and Kirk

We stand ready to support. Al will be working in WANO Tokyo center until he is cleared to join the team. I will email you his contact details in Tokyo. He will arrive in the morning around 5am EDT.

Dave

Sent from my iPhone

On Mar 21, 2011, at 7:18 PM, "Doane, Margaret" <Margaret.Doane@nrc.gov> wrote:

Brooke and Kirk,

Mr. Al Hochebar from US INPO will be coming to Japan tomorrow. His role will be to screen and prioritize requests and organize the US industry response to events in Japan. The US industry effort may be critical to getting useful information to Tepco on continuing events, so I'd treat this with urgency.

He would like to work with Chuck, Dan and the team to get contacts, access and insights to expedite the US industry response. At the same time, he may need additional meetings with other gov't/industry groups such as JAEA and other power companies, like Japan Atomic Power. I'll leave it to you guys on the ground.

I think the Economic Counselor at the Embassy Tokyo or other staff may be able to help understand how to embed US industry (not a contractor) in a US Gov't effort. Clearances may be an issue to resolve, if he attends your meetings.

Mr. David Farr at INPO is handling the effort from the US. I've copied him on this note. I've also copied the LT, if you need their assistance.

Always thinking of you guys,

Margie

.DISCLAIMER:

This e-mail and any of its attachments may contain proprietary INPO or WANO information that is privileged, confidential, or protected by copyright belonging to INPO or WANO. This e-mail is intended solely for the use of the individual or entity for which it is intended. If you are not the intended recipient of this e-mail, any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this e-mail is contrary to the rights of INPO or WANO and is prohibited. If you are not the intended recipient of this e-mail, please notify the sender immediately by return e-mail and permanently delete the original and any copy or printout of this e-mail and any attachments.

Thank you.

From: Doane, Margaret
Sent: Monday, March 21, 2011 7:21 PM
To: Foggie, Kirk; Smith, Brooke
Subject: FW: Visiting of Dr Ishikawa (JANTI)

FYI. JANTI is coming to the US and will meet with NRC, INPO (TBD) and NEI. Anything you want us to consider?
Margie

-----Original Message-----

From: Doane, Margaret
Sent: Monday, March 21, 2011 6:10 PM
To: 'RINCKEL, Jeannie'; Masaki UOTANI
Cc: 中村 民平; 北村 信行; 永田 匡尚; MARION, Alex; SLIDER, James; MAUER, Andrew; ANDERSON, Victoria; 成瀬 喜代士; 百々 隆; Emche, Danielle; 伊藤 裕之; 大部 悦二; Abrams, Charlotte
Subject: RE: Visiting of Dr Ishikawa (JANTI)

Dear Mr. Uotani,

The NRC would be pleased to meet with you and your team. The Chairman's schedule is full this week, but we will look to see if something can be changed. If not, we would be happy to try and schedule a meeting with our Executives. If you or one of your team would please contact Ms. Danielle Emche she will take care of all of the arrangements. I have copied her on this note. She can be reached at 301-415-2644, or by e-mail at danielle.emche@nrc.gov

As we remember from our visit, your activities may be similar to the activities of our Institute of Nuclear Power Operators (INPO) in the US. I have spoken with NEI and INPO and they would be willing to try to set up a teleconference if time and schedules permit, if you would find that helpful.

With kind regards,
Margie Doane
Office of International Programs, Director US Nuclear Regulatory Commission

-----Original Message-----

From: RINCKEL, Jeannie [<mailto:jmr@nei.org>]
Sent: Monday, March 21, 2011 1:22 PM
To: Masaki UOTANI; Doane, Margaret
Cc: 中村 民平; 北村 信行; 永田 匡尚; MARION, Alex; SLIDER, James; MAUER, Andrew; ANDERSON, Victoria; 成瀬 喜代士; 百々 隆; 伊藤 裕之; 大部 悦二
Subject: RE: Visiting of Dr Ishikawa (JANTI)

Dear Mr. Uotani,

We will be prepared to meet with JANTI in the NEI offices on Thursday afternoon from 1:30 - 4:30 pm. I will follow up with you with more details in a subsequent email.

Regarding the arrangements with the NRC, Margaret Doane, Director, Office of International Programs, will provide you with further assistance. I spoke with Margaret this morning and she is included on distribution to this email response. She will provide you with the details for arranging a meeting as you requested.

Please let me know if I can be of further assistance.

Sincerely yours,
Jeannie Rinckel

Jeannie M. Rinckel
Regulatory Affairs Executive Director
Nuclear Energy Institute
jmr@nei.org
202-739-8095

-----Original Message-----

From: Masaki UOTANI [mailto:uotani.masaki@gengikyo.jp]

Sent: Sunday, March 20, 2011 1:53 AM

To: RINCKEL, Jeannie

Cc: 中村 民平; 北村 信行; 永田 匡尚; MARION, Alex; SLIDER, James; MAUER, Andrew; ANDERSON, Victoria; 成瀬 喜代士; 百々 隆; 伊藤 裕之; 大部 悦二

Subject: Re: Visiting of Dr Ishikawa (JANTI)

Dear Ms. Rinckel,

Thank you for accepting our proposal to visit NEI and explain the status of the Fukushima Daiichi NPP.

JANTI would like to visit you on March 24, 1:30-4:30 PM.

The visiting members are as follows:

Dr. Michio Ishikawa, Chief Advisor
Mr. Tamihei Nakamura, Director, the General Affairs Division
Mr. Yoshikazu Suzuki, General Manager, Codes and Standards Division
Mr. Nobuyuki Kitamura, General Manager, Strategic Planning Office
Mr. Tadahisa Nagata, General Manager, Strategic Planning Office
Interpreter

JANTI is planning to explain the following topics using PPT slide and video:

- (1) Description of Fukushima Daiichi NPP
- (2) Sequence of Earthquake and Tsunami damage
- (3) Details
 - Earthquake and Tsunami (Scale, Plant damage)
 - Core (Situation, Damage estimated by the result of TMI-2 Study)
 - Spent Fuel Pool (Estimation of fuel cooling)
 - Dose rate on site and outside
- (4) Prospects of settlement of the damaged facility

I would like to ask you to suggest the persons concerned in NRC and INPO to attend the meeting.

In addition, Dr. Ishikawa is hoping to visit NRC Executives personally, especially Chairman Jaczko, on March 25, in order to present his prospect and discuss with them. Could you arrange the visit with NRC Executives, if possible for half an hour ?

After visiting NEI, JANTI's delegation is going to visit WANO Paris Center next week.

Dr. Ishikawa contributed an article on nuclear safety of the Fukushima Daiichi NPP to the Electric Daily News (The Denki Shimbun). I am attaching the article to this Email, translated into English.

Sincerely yours,

Masaki UOTANI

----- Original Message -----

From: "RINCKEL, Jeannie" <jmr@nei.org>

To: "Masaki UOTANI" <uotani.masaki@gengikyo.jp>

Cc: "中村 民平" <nakamura.tamihei@gengikyo.jp>; "北村 信行"

<kitamura.nobuyuki@gengikyo.jp>; "永田 匡尚"

<nagata.tadahisa@gengikyo.jp>; "MARION, Alex" <axm@nei.org>; "SLIDER, James" <jes@nei.org>; "MAUER, Andrew"

<anm@nei.org>; "ANDERSON, Victoria" <vka@nei.org>

Sent: Saturday, March 19, 2011 12:10 AM

Subject: RE: Visiting of Dr Ishikawa (JANTI)

Dear Mr. Uotani,

You and the JANTI folks have been in my thoughts since the devastating events of last week. I hope that you and your family are doing well.

I am sorry to hear the Dr. Ishikawa suffered as a result of the earthquake and hope recovery is going well.

At NEI, we established a emergency response center that has been monitoring the events around the clock in order to assist in providing technical expertise to the communications efforts. We have been following the progress very closely.

I am encouraged by your message and particularly Dr. Ishikawa's interested in visiting NEI to explain the status of the Fukushima NPP.

We are very interested in understanding the details such that we can incorporate lessons learned to every U.S. reactor. We can be available to meet with you whenever convenient.

Additionally, Alex Marion has a new email address: axm@nei.org and is on copy to this email.

Sincerely yours,

Jeannie Rinckel

-----Original Message-----

From: Masaki UOTANI [mailto:uotani.masaki@gengikyo.jp]

Sent: Friday, March 18, 2011 5:50 AM

To: RINCKEL, Jeannie

Cc: 中村 民平; 北村 信行; 永田 匡尚

Subject: Visiting of Dr Ishikawa (JANTI)

Dear Ms. Rinckel,

I sent the following Email to Mr. A. Marion again and again, but the message could not be delivered to Mr. Marion.

Could you please inform Mr. Marion of this message? I will appreciate it if you inform us of Mr. Marion's available day after March 24th for visiting of Dr. Ishikawa.

I would like to say thank you in advance.

Sincerely yours,

M.Uotani

Dear Mr. Marion,

I am most grateful to you for your kind arrangement of NEI-JANTI Meeting last Monday. The meeting was very fruitful for us.

You know Japan was hit by the greatest ever earthquake last Friday, and Fukushima Nuclear Power Plant suffered from large damage. JANTI is now engaged in collecting the information of the impact of the earthquake.

Dr. M. Ishikawa, Chief Advisor and former-president of JANTI, would like to visit you and to explain the status of Fukushima NPP to you directly, if possible for half a day. Could you inform me of your available day after March 24th?

Dr.Ishikawa suffered from the earthquake himself, so he is sorry to contact you late.

Sincerely yours,

Masaki UOTANI
Strategic Planning Office, JANTI

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Sent through mail.messaging.microsoft.com

From: Doane, Margaret
Sent: Monday, March 21, 2011 6:58 PM
To: Doane, Margaret; Henderson, Karen; Ramsey, Jack
Subject: RE: Options for Encouraging an Independent Commission Report.docx

One other thing – I probably should have noted that we should

(b)(5)

Margie

From: Doane, Margaret
Sent: Monday, March 21, 2011 6:47 PM
To: Henderson, Karen; Ramsey, Jack
Subject: Options for Encouraging an Independent Commission Report.docx

Jack and Karen, I wrote this in an hour, so it's very rough.

(b)(5)

Margie

Options for Encouraging an Independent Commission Report
on the Japanese Event

(b)(5)

From: Doane, Margaret
Sent: Monday, March 21, 2011 6:54 PM
To: Mamish, Nader
Subject: RE: ACTION: JAPAN RESPONSE EXIT CRITERIA

Nader this is good. It doesn't cover the team in Japan – or did I miss that.
Margie

From: Mamish, Nader
Sent: Monday, March 21, 2011 3:33 PM
To: Doane, Margaret
Subject: FW: ACTION: JAPAN RESPONSE EXIT CRITERIA

FYI

From: Evans, Michele
Sent: Monday, March 21, 2011 3:30 PM
To: Wiggins, Jim
Cc: Uhle, Jennifer; Grobe, Jack; Boger, Bruce; Holahan, Gary; Moore, Scott; Andersen, James; Muessle, Mary; Coe, Doug; Mamish, Nader; Ordaz, Vonna
Subject: RE: ACTION: JAPAN RESPONSE EXIT CRITERIA

Jim,

(b)(5)

Michele

From: Wiggins, Jim
Sent: Saturday, March 19, 2011 8:03 AM
To: Evans, Michele
Cc: Uhle, Jennifer; Grobe, Jack; Boger, Bruce; Holahan, Gary; Moore, Scott; Virgilio, Martin; Weber, Michael; Andersen, James
Subject: ACTION: JAPAN RESPONSE EXIT CRITERIA

QUIETLY.....w/o fanfare or notice.....

(b)(5)

From: Doane, Margaret
Sent: Monday, March 21, 2011 6:25 PM
To: 'RINCKEL, Jeannie'
Subject: RE: Visiting of Dr Ishikawa (JANTI)

Your welcome Jeannie, I didn't have George Mortinson's e-mail. Can you please forward the note to him. I spoke with Bill Webster and he said they would try and set something up. I'll leave that to you.

Regards,
Margie

-----Original Message-----

From: RINCKEL, Jeannie [mailto:jmr@nei.org]
Sent: Monday, March 21, 2011 6:21 PM
To: Doane, Margaret
Subject: RE: Visiting of Dr Ishikawa (JANTI)

Thanks Margie.

-----Original Message-----

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Monday, March 21, 2011 6:10 PM
To: RINCKEL, Jeannie; Masaki UOTANI
Cc: 中村 民平; 北村 信行; 永田 匡尚; MARION, Alex; SLIDER, James; MAUER, Andrew; ANDERSON, Victoria; 成瀬 喜代士; 百々 隆; Emche, Danielle; 伊藤 裕之; 大部 悦二; Abrams, Charlotte
Subject: RE: Visiting of Dr Ishikawa (JANTI)

Dear Mr. Uotani,

The NRC would be pleased to meet with you and your team. The Chairman's schedule is full this week, but we will look to see if something can be changed. If not, we would be happy to try and schedule a meeting with our Executives. If you or one of your team would please contact Ms. Danielle Emche she will take care of all of the arrangements. I have copied her on this note. She can be reached at 301-415-2644, or by e-mail at danielle.emche@nrc.gov

As we remember from our visit, your activities may be similar to the activities of our Institute of Nuclear Power Operators (INPO) in the US. I have spoken with NEI and INPO and they would be willing to try to set up a teleconference if time and schedules permit, if you would find that helpful.

With kind regards,
Margie Doane
Office of International Programs, Director US Nuclear Regulatory Commission

-----Original Message-----

From: RINCKEL, Jeannie [mailto:jmr@nei.org]
Sent: Monday, March 21, 2011 1:22 PM
To: Masaki UOTANI; Doane, Margaret
Cc: 中村 民平; 北村 信行; 永田 匡尚; MARION, Alex; SLIDER, James; MAUER, Andrew; ANDERSON, Victoria; 成瀬 喜代士; 百々 隆; 伊藤 裕之; 大部 悦二

Subject: RE: Visiting of Dr Ishikawa (JANTI)

Dear Mr. Uotani,

We will be prepared to meet with JANTI in the NEI offices on Thursday afternoon from 1:30 - 4:30 pm. I will follow up with you with more details in a subsequent email.

Regarding the arrangements with the NRC, Margaret Doane, Director, Office of International Programs, will provide you with further assistance. I spoke with Margaret this morning and she is included on distribution to this email response. She will provide you with the details for arranging a meeting as you requested.

Please let me know if I can be of further assistance.

Sincerely yours,
Jeannie Rinckel

Jeannie M. Rinckel
Regulatory Affairs Executive Director
Nuclear Energy Institute
jmr@nei.org
202-739-8095

-----Original Message-----

From: Masaki UOTANI [mailto:uotani.masaki@gengikyo.jp]

Sent: Sunday, March 20, 2011 1:53 AM

To: RINCKEL, Jeannie

Cc: 中村 民平; 北村 信行; 永田 匡尚; MARION, Alex; SLIDER, James; MAUER, Andrew; ANDERSON, Victoria; 成瀬 喜代士; 百々 隆; 伊藤 裕之; 大部 悦二

Subject: Re: Visiting of Dr Ishikawa (JANTI)

Dear Ms. Rinckel,

Thank you for accepting our proposal to visit NEI and explain the status of the Fukushima Daiichi NPP.

JANTI would like to visit you on March 24, 1:30-4:30 PM.

The visiting members are as follows:

Dr. Michio Ishikawa, Chief Advisor

Mr. Tamihei Nakamura, Director, the General Affairs Division

Mr. Yoshikazu Suzuki, General Manager, Codes and Standards Division

Mr. Nobuyuki Kitamura, General Manager, Strategic Planning Office

Mr. Tadahisa Nagata, General Manager, Strategic Planning Office

Interpreter

JANTI is planning to explain the following topics using PPT slide and video:

(1) Description of Fukushima Daiichi NPP

(2) Sequence of Earthquake and Tsunami damage

(3) Details

Earthquake and Tsunami (Scale, Plant damage)

Core (Situation, Damage estimated by the result of TMI-2 Study)
Spent Fuel Pool (Estimation of fuel cooling)
Dose rate on site and outside
(4) Prospects of settlement of the damaged facility

I would like to ask you to suggest the persons concerned in NRC and INPO to attend the meeting.

In addition, Dr. Ishikawa is hoping to visit NRC Executives personally, especially Chairman Jaczko, on March 25, in order to present his prospect and discuss with them. Could you arrange the visit with NRC Executives, if possible for half an hour ?

After visiting NEI, JANTI's delegation is going to visit WANO Paris Center next week.

Dr. Ishikawa contributed an article on nuclear safety of the Fukushima Daiichi NPP to the Electric Daily News (The Denki Shimbun). I am attaching the article to this Email, translated into English.

Sincerely yours,

Masaki UOTANI

----- Original Message -----

From: "RINCKEL, Jeannie" <jmr@nei.org>
To: "Masaki UOTANI" <uotani.masaki@gengikyo.jp>
Cc: "中村 民平" <nakamura.tamihei@gengikyo.jp>; "北村 信行" <kitamura.nobuyuki@gengikyo.jp>; "永田 匡尚" <nagata.tadahisa@gengikyo.jp>; "MARION, Alex" <axm@nei.org>; "SLIDER, James" <jes@nei.org>; "MAUER, Andrew" <anm@nei.org>; "ANDERSON, Victoria" <vka@nei.org>
Sent: Saturday, March 19, 2011 12:10 AM
Subject: RE: Visiting of Dr Ishikawa (JANTI)

Dear Mr. Uotani,

You and the JANTI folks have been in my thoughts since the devastating events of last week. I hope that you and your family are doing well.

I am sorry to hear the Dr. Ishikawa suffered as a result of the earthquake and hope recovery is going well.

At NEI, we established a emergency response center that has been monitoring the events around the clock in order to assist in providing technical expertise to the communications efforts. We have been following the progress very closely.

I am encouraged by your message and particularly Dr. Ishikawa's interested in visiting NEI to explain the status of the Fukushima NPP.

We are very interested in understanding the details such that we can incorporate lessons learned to every U.S. reactor. We can be available to meet with you whenever convenient.

Additionally, Alex Marion has a new email address: axm@nei.org and is on copy to this email.

Sincerely yours,
Jeannie Rinckel

-----Original Message-----

From: Masaki UOTANI [mailto:uotani.masaki@gengikyo.jp]

Sent: Friday, March 18, 2011 5:50 AM

To: RINCKEL, Jeannie

Cc: 中村 民平; 北村 信行; 永田 匡尚

Subject: Visiting of Dr Ishikawa (JANTI)

Dear Ms. Rinckel,

I sent the following Email to Mr. A. Marion again and again, but the message could not be delivered to Mr. Marion.

Could you please inform Mr. Marion of this message? I will appreciate it if you inform us of Mr. Marion's available day after March 24th for visiting of Dr. Ishikawa.

I would like to say thank you in advance.

Sincerely yours,

M.Uotani

Dear Mr. Marion,

I am most grateful to you for your kind arrangement of NEI-JANTI Meeting last Monday. The meeting was very fruitful for us.

You know Japan was hit by the greatest ever earthquake last Friday, and Fukushima Nuclear Power Plant suffered from large damage. JANTI is now engaged in collecting the information of the impact of the earthquake.

Dr. M. Ishikawa, Chief Advisor and former-president of JANTI, would like to visit you and to explain the status of Fukushima NPP to you directly, if possible for half a day. Could you inform me of your available day after March 24th?

Dr.Ishikawa suffered from the earthquake himself, so he is sorry to contact you late.

Sincerely yours,

Masaki UOTANI
Strategic Planning Office, JANTI

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Sent through mail.messaging.microsoft.com

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Sent through mail.messaging.microsoft.com

From: Doane, Margaret
Sent: Monday, March 21, 2011 3:03 PM
To: 'Scheland, Mark DL'
Cc: LIA02 Hoc; 'Shaffer, Mark R'; LIA03 Hoc; Schwartzman, Jennifer; Mamish, Nader; 'Herr, Julie K'
Subject: RE: IAEA Response regarding Coordination of Assistance Requests from Member States

Mark,

Thank you for helping the NRC with this request. Just to be sure that everyone understands our request, Jen Schwartzman put together a detailed description of what we are looking for from the IAEA. It's pasted below. I hope that it is clear that we are not looking for any sort of personal judgment about what assistance is necessary or for IAEA to confirm that Japan wants the assistance, or anything similar. Countries are working through their bilateral arrangements directly with Japan for this assistance. What we need from the IAEA is a database (which we are calling a Clearinghouse) that shows who's provided what material because it is getting confusing.

I hope this helps.

Clearinghouse

In its communications both with other USG agencies and with international counterparts, the NRC has noticed that there does not appear to be an international clearinghouse set up with the purpose of tracking the specific requests made by the Japanese, the offers made by other countries, what has actually been provided and by whom, and whether it satisfied the request. Several recent examples have brought this to bear, including: a) continuous requests from the Japanese to the USG for robots while trade press reports indicated large shipments of robots from France; b) numerous countries' reporting shipments of boric acid which may exceed the amount needed; c) continuous requests to the USG for protective gear when we were under the impression that Areva was providing. We understand from our international colleagues that they are experiencing similar confusion.

Given our understanding of the role of IAEA's Incident and Emergency Center (IEC), which is to facilitate communication between responders in Member States, the IEC is the logical entity to serve as this type of clearinghouse. However, there is some lingering confusion as to the role the IEC can play if the Japanese have not made a formal request under the Assistance Convention. Below, you will see a note from Mark Shaffer forwarding the response he received from his IEC to his inquiry. Based on this response, it is not clear whether the IAEA is only tracking requests/offers that come through the IEC, or whether they have been privy to what has transpired directly between Japan and other countries.

Ideally, we believe the IAEA should reach out to all of its Member States to request that all offers for assistance to Japan be conveyed to the IEC so that the IEC can keep track of what is being provided and what is still outstanding. This would help the U.S. and others determine which items are highest priority and avoid duplication of efforts. The NRC is not suggesting that we play a diplomatic role by urging the Japanese to invoke the Convention, nor would NRC take the lead in reaching out to IAEA to suggest they take on this clearinghouse role in a more active way. However, we still need to clarify if it is possible for the IEC to play the role we are suggesting without a formal request from Japan; we believe it is, but we'd like to talk with you about it. Once we are aligned, we'd suggest reaching out together to appropriate IAEA Legal Affairs staff to discuss the matter with them.

1. If requested by Japan, can IAEA take on the role of being the central “repository” to track information on equipment needs and assistance that is being provided by Member States? We believe that it is important for all member States to be aware of what other States are providing/sending to Japan to avoid duplication of equipment/assistance.
2. Can this task be carried out without Japan invoking the request under the Convention on Assistance?
3. Can IAEA perform this function informally (without the request by Japan)? For example, could this role be performed in a similar fashion as the recent request from DDG Flory for Member States to provide the Secretariat with radiation monitoring data.?

We look forward to your prompt response to these questions so that the United States, and other member States, we can continue to provide assistance to Japan in the most efficient and effective manner possible.

Thank you.

-Mark

Mark R. Shaffer • Nuclear Safety Attaché • United States Mission to International Organizations in Vienna
Wagramerstraße 17-19, 1220 Vienna | +43-1-31339-4745 | Shaffermr@state.gov

This email is UNCLASSIFIED.

From: Doane, Margaret
Sent: Monday, March 21, 2011 1:22 PM
To: Weber, Michael; Virgilio, Martin
Cc: Mamish, Nader; Borchardt, Bill
Subject: FW: I need to get going. Can you send me what you've written.
Attachments: OIP recommendations for consortium participants 3-20-2011.doc

Mike and Marty,

I think I forgot to send this to you.

(b)(5)

(b)(5)

Margie

-----Original Message-----

From: Henderson, Karen
Sent: Sunday, March 20, 2011 2:39 PM
To: Doane, Margaret
Cc: Ramsey, Jack; Mamish, Nader
Subject: RE: I need to get going. Can you send me what you've written.

Margie,

Here's what I have cobbled together. See if it meets the need.

Cheers,

Karen

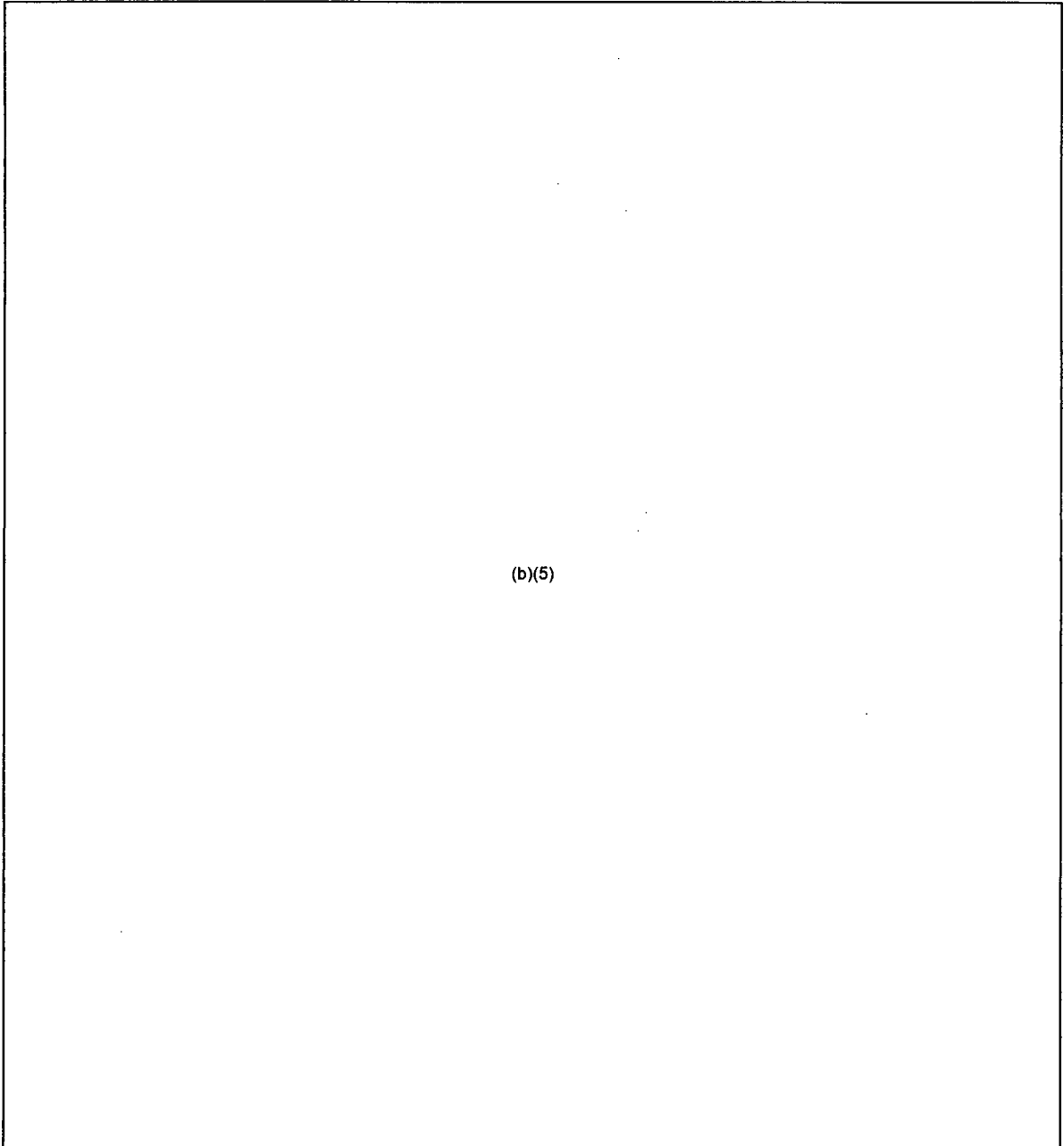
From: Doane, Margaret
Sent: Sunday, March 20, 2011 2:37 PM
To: Henderson, Karen
Subject: I need to get going. Can you send me what you've written.

Margie

Sent from an NRC Blackberry
Margaret Doane

There is a 2pm Monday status update teleconference being set up for consortium participants.

Issues:



(b)(5)

From: Doane, Margaret
Sent: Monday, March 21, 2011 7:50 AM
To: Foggie, Kirk; Smith, Brooke
Cc: Mamish, Nader
Subject: Fw: Appreciation for NRC's assistance

Fyi

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Toshihiro Bannai <bannai-toshihiro@meti.go.jp>
To: Jaczko, Gregory
Cc: Pace, Patti; Doane, Margaret; Foggie, Kirk; terasaka-nobuaki@meti.go.jp <terasaka-nobuaki@meti.go.jp>
Sent: Mon Mar 21 06:03:13 2011
Subject: Appreciation for NRC's assistance

Dear Chairman Jaczko,

I extremely appreciate NRC's assistance especially great help of the powerful mission of 11 experts you have generously sent.

I am very afraid that I could not have replied to your message sent by email in a very early stage of this accident operations up to now because I need to stay at the head office of emergency response center for 24 hours a day since the initial earthquake.

Needless to say, the 11 experts are providing useful outcomes through active and frequent interaction with us.

I would be very happy if we could communicate with each other freely and closely work together to cope with this difficult situation.

Sincerely yours,
Terasaka Nobuaki

Director General
Nuclear and Industrial Safety Agency

(sent by Toshihiro Bannai, Director of International Affairs Office, NISA)

From: Doane, Margaret
Sent: Monday, March 21, 2011 12:17 AM
To: LIA02 Hoc; LIA03 Hoc; Fragoyannis, Nancy; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMr@state.gov'; Smith, Brooke; Foggie, Kirk; Bloom, Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smirolfo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche, Danielle; Stahl, Eric
Subject: Re: TRANSITION 3/20 2300

To all OIP op center liaisons. For my dailies no need to cover any technical topics in the note. Those are captured elsewhere. Although Brooke and Kirk want someone to listen to the updates from the tech team, in case they cover non-tech topics and since drafters may want to refer to it when giving important impressions. But this should be very slim notes. Also, from now on please mark the dailies as, Sensitive OUO Information as they include information given to us by the Japanese Govt. with the intention of us withholding and it could cause them harm.

Thanks for covering the ops center and providing these dailies. You guys are doing a fantastic job!
Margie

Sent from an NRC Blackberry
Margaret Doane

From: LIA02 Hoc
To: LIA02 Hoc; LIA03 Hoc; Fragoyannis, Nancy; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMR@state.gov' <ShafferMR@state.gov>; Smith, Brooke; Foggie, Kirk; Bloom, Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smirolfo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche, Danielle; Stahl, Eric
Sent: Sun Mar 20 23:11:50 2011
Subject: TRANSITION 3/20 2300

OFFICIAL-USE ONLY

TRANSITION REPORT FOR MARCH 20, 2011 2300
Eric and Nancy transitioning to Jenny and Elizabeth

UPDATES DURING THIS SHIFT

- **NRC Relief Team to Japan.**
 - At 1840 on March 20, Nancy Fragoyannis spoke to Nader concerning who has responsibility for making travel arrangements/passport information for the next NRC travelers to Japan. **The 0700-1500 shift should contact Nader (on Monday, March 21) regarding the process for arranging travel for the next NRC travelers. Please respond back to all travelers with this information.**
 - **Need to contact Steve Dembek tomorrow regarding expediting passport for Jack Giessner (Region III).** He has an expired passport. He needs to know if he needs to come to DC prior to departure for Japan to obtain a current passport.
 - LIA07 added new team members to the "Liaison Japan" group email distribution group. Team members were notified as well. No further action required.
- **USG Coordination.** At approximately 1300, a call on March 21 will be scheduled between NRC (Jaczko), USAID (Lindborg), Naval Reactors (Donald), DOE (Lyons), and INPO (Ellis) concerning what USG agency will have the

lead on coordinating with industry on the Japan response. At 1400, these participants will hold a call with a larger industry group. After tomorrow (March 21), this call will be held daily at 1000. This is for information only. While this call is coordinated by the federal liaison, please verify that it's been scheduled.

- **IAEA Coordination.** At 1826 on March 20, per the ET, Nancy emailed Chuck, Brooke and Kirk, and asked them to contact the Japanese to request that IAEA assume the role of coordinator (serving as clearinghouse for information on what equipment/assistance has been sent/requested/etc.). NRC understands that a request by Japan under the Convention on Assistance and Notification is necessary. Brooke believed this request should come directly from IAEA, not the NRC. Nancy emailed Mark Shaffer at 1931 about whether IAEA could/should do this. Brooke is waiting for response from Mark on how to proceed.
- **France -** At the request of the PMT, at 1538 on March 20, Eric Stahl sent email to IRSN (France TSO - ctc@irsn.fr) about releasing the results of the French simulation on possible source term and plume models to NRC. French requested a call tomorrow at 1000 on March 21 to discuss. International liaison with PMT should call into +33 1 58 35 01 73.
- **Daily NRC Japan Team – RST/PMT Call.** Scheduled for 0300 (Brooke will let us know if this needs to change). RST and PMT have been notified of the call and international liaison should plan on participating. All parties should call into 301-816-5120 and use pass-code (b)(6).
- **Conference Room.** Per Nancy's discussion with Brooke at 2015, the NRC Japan Team does not need a conference room at the hotel. Per Steve Baker's 1500 Transition, Barbara Gussack of Operations is braced to submit an actual request for a conference room once the delegation agrees they need one. Liaisons on the 0700-1500 shift should follow up with Steve Baker about cancelling the request (we don't know who Gussack is).
- **FOIA Request.** All emails (inbox and outbox) as of 2000 on March 20 have been sent to the "FOIA.Response" email address. In the future, the 11pm-7am shift should "dump" (send) all emails from the previous day to the FOIA email address.

FUTURE ACTIONS

- **NRC Relief Team to Japan.**
 - On March 20 at 0900, International liaisons sent out an email to the new team members requesting BB numbers, email addresses and emergency contact information. Also awaiting flight arrival times. When this information is received we need to add it to applicable spreadsheet.
 - Dosimeters need to be given to the team members and located are in drawer at LIA03 location. Regional travelers will receive their dosimetry from the Region. Note: Dosimetry should only be released directly to the travelers.
 - Brooke, Kirk and Tony have requested an additional supply of business cards be provided to them. The ADM desk has generated the cards requested but FedEx wouldn't be able to get them out until Monday with delivery Tuesday. Action: Provide to Mike Scott (RES) who is departing on Tuesday March 22. Cards are on LIA03 desk.
 - Brooke has requested that her NRC thumb drive be sent to her. It is in the drawer of station LIA03. Action: Provide to Mike Scott who is departing on Tuesday, March 22.
- **International request for information.** The Indonesian Embassy in Washington requested information on how we arrived at the 50-mile evacuation announcement. We provided some very basic information. They have followed up with a request for a phone call or meeting with NRC and their Minister-Counselor. Action: Call will occur at 5PM on Monday, March 21.
- **Radiological Data Request.** NRC PMT room requested that we ask NISA to connect with TEPCO regarding getting updated radiological information including offsite plume monitoring data on a routine and expedited

frequency. This request was sent to Danielle Emche to engage with Kirk and potentially NISA counterpart if appropriate. Action: The answer to this request should be communicated to the PMT room if received.

- **Industry Japan Team.** On March 20 at 1400, Karen Henderson, at request of LT Director, contacted INPO representative Randy Tropasso ((b)(6) or 770-366-7811) to discuss the logistics of industry representatives who may be sent to Japan. Mr. Tropasso stated that no individuals have yet been identified and that they are still evaluating what criteria/skills should be available on the team. Mr. Tropasso also noted that they are awaiting resolution of how the US Government will organize itself to manage the team's efforts and interactions with the Japanese Government. International liaisons awaiting possible follow-up call.
- The 11pm-7am shift should "dump" (send) all emails from the previous day to the FOIA email address.
- **21:30 Interagency Call.** Next call will be 3/21 at 21:30 EST.

GENERAL NOTES/REMINDERS

- Information pertinent to the team in Japan can be forwarded to new email group, "Liaison Japan," in Outlook.
- International updates must now be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- 11 PM – 7 AM shift is responsible for the summary call with Kirk and Brooke, scheduled daily at 0500 EST unless rescheduled.
- Kirk and Brooke requested that the international team to sit in on calls with the ET and Chuck to take notes and provide a short summary of what was discussed via email.
- Reminder to include names on watch bill emails and inform Brooke and Kirk when shift changes.
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have the international call.
- Reminder to Keep Mark Shaffer in-the-loop. at shaffermr@state.gov, regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.

OFFICIAL-USE ONLY

From: Doane, Margaret
Sent: Monday, March 21, 2011 12:00 AM
To: Doane, Margaret
Subject: Other questions

(b)(5)

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Sunday, March 20, 2011 11:04 PM
To: Borchardt, Bill
Subject: Re: Update

Done. Gave direction to set up the call. Hope you don't see this until morning. Although participants were not called. To be set up in the morning. I think it will be fine.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: Borchardt, Bill
Sent: Sun Mar 20 20:49:50 2011
Subject: Re: Update

I'm sorry for bothering you. Have a nice night. I'll make sure its done.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Borchardt, Bill
To: Doane, Margaret
Sent: Sun Mar 20 20:36:42 2011
Subject: Re: Update

Not sure of status, but too tired to worry.
Bill Borchardt
Via blackberry

From: Doane, Margaret
To: Borchardt, Bill
Sent: Sun Mar 20 20:29:22 2011
Subject: Fw: Update

Bill. Never heard back from Chmn's Office. I'm assuming that this is not holding up the scheduling of call. I thought Adm. Donald, etc. were already invited. Certainly Josh has seen it by now. I'd assume the advice was not accepted. I just don't want to get in the way.
Have a nice night.
Margie
Margie
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: Batkin, Joshua; Jaczko, Gregory
Cc: Borchardt, Bill
Sent: Sun Mar 20 15:05:08 2011
Subject: Re: Update

Chairman

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Borchardt, Bill
To: Wiggins, Jim
Cc: Weber, Michael; Virgilio, Martin; Doane, Margaret
Sent: Sun Mar 20 11:24:17 2011
Subject: FW: Update

Please have someone set up the call

From: Jaczko, Gregory
Sent: Sunday, March 20, 2011 11:15 AM
To: Borchardt, Bill
Cc: Batkin, Joshua; Weber, Michael; Virgilio, Martin; Wiggins, Jim
Subject: Re: Update

Set up the pre 2 pm call and include ellis and usaid(??)

From: Borchardt, Bill
To: Jaczko, Gregory
Cc: Batkin, Joshua; Weber, Michael; Virgilio, Martin; Wiggins, Jim
Sent: Sun Mar 20 11:12:17 2011
Subject: Update

Chairman,

- 1)
 - 2)
- (b)(5)

Bill

From: Doane, Margaret
Sent: Sunday, March 20, 2011 7:05 PM
To: Mamish, Nader
Subject: Re: Division of work

Sounds good. I'm flexible.

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Mamish, Nader
To: Doane, Margaret
Sent: Sun Mar 20 18:17:08 2011
Subject: RE: Division of work

Ok - let me think about roles and responsibilities and talk tomorrow ...

-----Original Message-----

From: Doane, Margaret
Sent: Sunday, March 20, 2011 1:23 PM
To: Mamish, Nader
Subject: Re: Division of work

not sure. Definitely communicator but some logistics b/c you're very good at that and they'll need your sage advice.

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Mamish, Nader
To: Doane, Margaret
Sent: Sun Mar 20 13:07:22 2011
Subject: RE: Division of work

Ok w/me.

As far as equipment going to Japan, I see our role as a communicator. Do you see our role as larger than that?

-----Original Message-----

From: Doane, Margaret
Sent: Sunday, March 20, 2011 9:45 AM
To: Mamish, Nader
Subject: Division of work

Not that this is fair to you-let me know if its too much.

You have team going over-including USAID.
Equip going over to Japan
Budget issues

I have strategy/policy. Interface with other Gov'ts. Strategy for Industry interface, diplo issues that arise in all areas.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Sunday, March 20, 2011 1:22 PM
To: Mamish, Nader
Cc: Dyer, Jim
Subject: Re: NRC TEAM IN JAPAN

(b)(5)

Thanks.
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Mamish, Nader
To: Dembek, Stephen
Cc: Doane, Margaret; LIA02 Hoc; LIA03 Hoc
Sent: Sun Mar 20 12:48:16 2011
Subject: FW: NRC TEAM IN JAPAN

Steve:

Heads-up. If the issue is not resolved by Monday am, should we start putting together paperwork for the travelers (Scott, Blamey)?

-----Original Message-----

From: Burns, Stephen
Sent: Sunday, March 20, 2011 8:44 AM
To: Batkin, Joshua; Coggins, Angela
Cc: Dyer, Jim; Mamish, Nader
Subject: FW: NRC TEAM IN JAPAN

I received this morning the response below to my email to US AID yesterday afternoon. I responded that his understanding was correct.

(b)(5)
If there's some other message you want me to relay to their OGC, let me know.

Steve

From: Cohen, Harold(GC/DCHA) [hcohen@usaid.gov]
Sent: Sunday, March 20, 2011 7:20 AM
To: Burns, Stephen; Gomer, Lisa (GC)

Cc: Maxin, Mark
Subject: Re: NRC TEAM IN JAPAN

Steve:

Thanks very much for your email. This provides a much better understanding of NRC's perspective.

(b)(5)

As discussed with Mark and others in your office, we believe we have a fair amount of flexibility from our side and will be happy to work with you once we have definitive guidance from Agency leadership.

Thanks again to you, Mark and others for your assistance in this matter.

Hal

Sent from BlackBerry

From: Burns, Stephen
To: Gomer, Lisa (GC)
Cc: Maxin, Mark ; Cohen, Harold(GC/DCHA)
Sent: Sat Mar 19 18:15:14 2011
Subject: NRC TEAM IN JAPAN
Lisa –

This follows up to our conversation yesterday regarding US AID support for the NRC staff embedded with the DART team in Japan. I was also on a phone call this afternoon with our CFO and Chris Leonardo at US AID who said she was going to get in touch with your office.

(b)(5)

Here's where I think things are from an NRC perspective:

- NRC staff are in Japan at the invitation of US AID as part of the humanitarian mission and would not be there otherwise.
- Although NRC has some international programs for cooperation and assistance (particularly for regulatory assistance to countries newly developing a regulatory program and cooperative research and the like), NRC is not

typically involved in emergency response outside the US. Those response activities that are within our scope of responsibility relate essentially to incidents at NRC-regulated facilities.

- As a fee-based agency, billing the activities in Japan to the US industry is problematic.

(b)(5)

(b)(5) Let me know if there is something else you need from us or have questions. I can be reached by email or by the cell number listed below or my home phone (b)(6)

Steve

Stephen G. Burns

General Counsel

U.S. Nuclear Regulatory Commission

Mail Stop 15-D-21

11555 Rockville Pike

Rockville, MD 20852

301-415-1743 (office)

(b)(6) (mobile)

301-415-3086 (fax)

Stephen.Burns@nrc.gov<mailto:Stephen.Burns@nrc.gov>

From: Doane, Margaret
Sent: Sunday, March 20, 2011 10:06 AM
To: 'ShafferMr@state.gov'; Schwartzman, Jennifer
Cc: Mamish, Nader
Subject: Re: 3/20/11 0700 Transition

Hi Mark

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Shaffer, Mark R <ShafferMr@state.gov>
To: Doane, Margaret
Sent: Sun Mar 20 07:44:45 2011
Subject: Re: 3/20/11 0700 Transition

Good morning Margie. (b)(6) Don't know how much you have been briefed about what's going on here in Vienna. (b)(5)

DG Amano is back in Vienna today and will address a special session of the Board of Governors tomorrow at 11:00 am

Mark

----- Original Message -----

From: Doane, Margaret <Margaret.Doane@nrc.gov>
To: LIA02 Hoc <LIA02.Hoc@nrc.gov>; LIA03 Hoc <LIA03.Hoc@nrc.gov>; Fragoyannis, Nancy <Nancy.Fragoyannis@nrc.gov>; Mamish, Nader <Nader.Mamish@nrc.gov>; Abrams, Charlotte <Charlotte.Abrams@nrc.gov>; Wittick, Brian <Brian.Wittick@nrc.gov>; Afshar-Tous, Mugeh <Mugeh.Afshar-Tous@nrc.gov>; Shaffer, Mark R; Smith, Brooke <Brooke.Smith@nrc.gov>; Foggie, Kirk <Kirk.Foggie@nrc.gov>; Bloom, Steven <Steven.Bloom@nrc.gov>; Schwartzman, Jennifer <Jennifer.Schwartzman@nrc.gov>; Tobin, Jennifer <Jennifer.Tobin@nrc.gov>; Mayros, Lauren <Lauren.Mayros@nrc.gov>; Jones, Andrea <Andrea.Jones2@nrc.gov>; English, Lance <Lance.English@nrc.gov>; Smiroldo, Elizabeth <Elizabeth.Smiroldo@nrc.gov>; Young, Francis <Francis.Young@nrc.gov>; Henderson, Karen <Karen.Henderson@nrc.gov>; Ramsey, Jack <Jack.Ramsey@nrc.gov>; Shepherd, Jill <Jill.Shepherd@nrc.gov>; Baker, Stephen <Stephen.Baker@nrc.gov>
Sent: Sun Mar 20 07:30:55 2011
Subject: RE: 3/20/11 0700 Transition

Last night Josh asked for the interpreter to see whether on any Japanese channels or web, they were reporting dose rates I put in my note. Did we answer that question?

From: LIA02 Hoc

Sent: Sunday, March 20, 2011 6:56 AM

To: LIA03 Hoc; Fragoyannis, Nancy; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMR@state.gov'; Smith, Brooke; Foggie, Kirk; Bloom, Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smirolodo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen
Subject: 3/20/11 0700 Transition

TRANSITION REPORT FOR MARCH 20, 2011 0700 Charlotte and Jen transitioning to Karen and Steve Baker

GENERAL NOTES. (includes notes from previous updates)

- 1) Information pertinent to the team in Japan can be forwarded to new email group, which incorporates Dan Dorman already, "Liaison Japan," in Outlook.
- 2) Action: International updates must now be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- 3) 11 PM – 7 AM shift is responsible for the summary call with Kirk and Brooke, scheduled daily at 5 AM EST unless rescheduled.
- 4) Kirk and Brooke requested that the international team to sit in on calls with the ET and Chuck to take notes and provide a short summary of what was discussed via email.
- 5) Reminder to include names on watch bill emails and inform Brooke and Kirk when shift changes.
- 6) RST needs to follow up on Crystallization issue per the 0930 conference call (see item below)
- 7) Prior to the 2 pm call or any other call you set up, make sure you contact the HOOs to let them know that you are going to have the international call with UK, etc. Might be beneficial to establish a standing bridge.

• 0930 Conference Call (Update). On yesterday's 0930 conference call with UK/Canada/France (with RST), UK asked about crystallization on the fuel as a result of the salt from the sea water. We have so far been unable to get additional information on this from TEPCO. They will likely ask for a follow-up on the 0930 call this morning. RST will be on the line and can respond. Action: International liaison should verify whether the group desires another 2 PM call on health physics issues – if so, contact the HOO to give a heads up.

• NRC Relief Team to Japan (Update). Dan Dorman (NMSS) departed for Tokyo on March 19. Mike Scott (RES) and Alan Blamey (RI) depart on March 22. Todd Jackson (RI) departs March 23. Jack Giessner (RIII), Rob Taylor (NRR), Marie Miller (RI), Syed Ali (RES), Abdul Sheikh (NRR), Ralph Way (NSIR), and Jack Ramsey (OIP) will depart March 24. Action: New team members should be added to Liaison Japan group. Need Blackberry numbers and e-mail addresses for each traveler. Add new team members, contact information and flight arrival time to NRC traveler table. Dosimeters for team members are in drawer at LIA03 location.

• International request for information. The Indonesian Embassy in Washington requested information on how we arrived at the 50-mile evacuation announcement. We provided some very basic information. They have followed up with a request for a phone call or meeting with NRC and their Minister-Counselor. Action: Call will occur at 5PM on Monday, March 21.

• Business Cards for TeamJapan. Brooke, Kirk and Tony have requested an additional supply of business cards be provided to them. The ADM desk has generated the cards requested but FedEx wouldn't be able to get them out until Monday with delivery Tuesday. Action: Provide to Mike Scott (RES) who is departing on Tuesday March 22. Cards are on LIA03 desk.

- Thumb Drive for Brooke. Brooke has requested that her NRC thumb drive be sent to her. It is in the drawer of station LIA03. Action: Provide to Mike Scott who is departing on Tuesday, March 22.

- Meteorological/Radiation Data. PMT is looking to fill a gap in its data from 3/13-15. We may have received some of it tonight but the translator is still working on it. Action: Any data that comes in with those dates on it should be treated as a top priority for translation and providing to PMT.

- 21:30 Interagency Call. Next call will be 3/21 at 21:30 EST. Based upon information from the Task Force conference call, Chuck Casto had just returned from a meeting with TEPCO and TEPCO was very interested in getting the robots and helicopter from Lockheed Martin. They requested that the specs for these items be forwarded to them as soon as possible. Based upon information from DOS earlier in the call DDTC was working to expedite the licensing for these items in the event they were requested and the passports for Lockheed Martin personnel to accompany the helicopter. Update on the Bechtel trains in Perth for Japan – DOD Paycom has confirmed payment and flight is being prepared. The flight is estimated to arrive late or overnight Japan time on Sunday. One train of pumps and valves is being provided on this flight with a decision on supplying the remaining trains to be determined later based upon need by Japan.

- Radiological Data Request. NRC PMT room requested that we ask NISA to connect with TEPCO regarding getting updated radiological information including offsite plume monitoring data on a routine and expedited frequency. This request was sent to Danielle (Emche) to engage with Kirk and potentially NISA counterpart if appropriate. Action: The answer to this request should be communicated to the PMT room if received.

- International aid/support for Japan. IAEA and Russians have delegations in Japan. The Italians are interested in discussing what the USG is doing, and might be interested in helping in some way. We should receive more information from Roberto Ranieri soon. Spain has sent no one yet but Parliament will review and decide. South Africa and Slovenia have sent no one. And, as of today, has no plans. The Swiss regulator (as a part of the Swiss government team) has sent one person to do radiation monitoring and transmit the results. Marty Virgilio asked if there was any one coordination point (e.g. IAEA) for assistance going to Japan to avoid duplication of efforts. This does not appear to be the case but we have reached out to various contacts (USAID, Embassy Tokyo). This will likely become an action for future LT shifts (not just int'l).

- Request regarding calcium bentonite. USAID (see e-mail chain from 3/20, 2:20 am) received an offer from Kevin Johnson (406-490-5004) at a Montana bentonite mine to provide calcium bentonite to Japan to use to suppress leaks at the reactors. Bentonite is an absorbent clay that is used in kitty litter and also is used as to seal (expands as it absorbs liquid). The Montana mine offers to donate the bentonite. Unlikely that clay is a solution at this stage and supplies are likely to be located closer to Japan. Resolved by the RST.

- Use of USAid for Travel. Contacted Joshua Batkin, Chief of Staff for the Chairman, on direction by Nader Mamish to discuss the fact that we are to use USAid and the need for a legal agreement between the NRC and USAid if we are to get additional support. Joshua Batkin has worked it through Steve Burns and Jim Dyer who are interacting directly with USAID, he will let us know if there is anything additional needed from us.
- Call with TEPCO. RST held a call with TEPCO at 02:00. Group reported that TEPCO was not being particularly forthcoming about anything except the specific issue they wanted to talk about (which was the delivery of a train of Bechtel pumps that's on its way to Japan from Australia).
- Pressure increase in Unit 3. The latest NISA press release received contains an attachment with diagrams of all 6 units. It indicates that the pressure in unit 3 primary containment is just under 3x the pressure in units 1 and 2 (340 kilopascal vs 130). It's posted on ENAC in Japanese but our translator has worked it. News outlets were reporting high pressures in unit 3. RST opinion is that unit 3 pressure rise was slight and news media picked up on delta between press releases and called it "pressure increase." Note this is not/not official NRC opinion or statement. News reports subsequently indicated pressure had stabilized.
- Request from NISA regarding 50-mile limit. NISA requested through Kirk how NRC came to the conclusion of a 50-mile evacuation zone, as referenced in NRC press release of March 16. We recommended that Kirk refer them to the attachment to the press release. The attachment contains information from the RASCAL runs.

~~OFFICIAL USE ONLY~~

From: Doane, Margaret
Sent: Sunday, March 20, 2011 9:24 AM
To: Mamish, Nader; Abrams, Charlotte; Dembek, Stephen
Subject: Re: Travel to Japan Checklist-UPDATED!.docx

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Mamish, Nader
To: Abrams, Charlotte; Dembek, Stephen; Doane, Margaret
Sent: Sun Mar 20 07:52:09 2011
Subject: FW: Travel to Japan Checklist-UPDATED!.docx

(b)(5)

Thanks

From: LIA03 Hoc
Sent: Saturday, March 19, 2011 9:59 PM
To: Scott, Michael; Blamey, Alan; Giessner, John; Taylor, Robert; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack
Cc: Mamish, Nader; LIA02 Hoc
Subject: Travel to Japan Checklist-UPDATED!.docx

All,

Thank you for agreeing to participate in the effort to assist Japan. Attached is a checklist to prepare for your departure this coming week. If you have questions or comments or need any type of assistance at any time, you can e-mail the international liaison team members at LIA02 HOC or LIA03 HOC (or call the HOO and ask to be connected to the International Liaison). At this time, travel arrangements have not yet been made. This information will be sent to you as soon as it becomes available.

Travel safely and best of luck!
-Jenny

From: Doane, Margaret
Sent: Saturday, March 19, 2011 9:33 PM
To: Mamish, Nader
Subject: Team in Japan

Just had a long conversation with the Brooke and Kirk. Let's discuss on Monday. Insights into how to handle group going forward.

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Saturday, March 19, 2011 4:45 PM
To: Foggie, Kirk; Emche, Danielle
Cc: Ramsey, Jack; Smith, Brooke; Mamish, Nader
Subject: Re: NISA EOC answers

Kirk. Nader and I are reviewing and will have comment

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Foggie, Kirk
To: Emche, Danielle
Cc: Ramsey, Jack; Smith, Brooke; Doane, Margaret; Mamish, Nader
Sent: Sat Mar 19 16:39:37 2011
Subject: Re: NISA EOC answers

Got it. Thanks.
Sent from Blackberry.

----- Original Message -----

From: Emche, Danielle
To: Foggie, Kirk
Cc: Ramsey, Jack; Smith, Brooke; Doane, Margaret; Mamish, Nader
Sent: Sat Mar 19 14:59:44 2011
Subject: NISA EOC answers

Kirk, see answers below. For number 2, I suggested the text in parentheses as a way to recognize other options. Let me know how you think number 2 should be stated and we can clear it with the ET if you think its necessary.

1. US recommends use of borated water for injection. If Japan accepts the US solution, what preparations should Japan consider?

- If possible, pH should be maintained within 5-7.5 to minimize corrosion of metallic components
 - o trisodium phosphate can be used to increase the pH, if necessary
 - o POLYBOR may be an alternative to boric acid, requiring less powder to achieve similar boron concentration

2. It appears that the US solution is based on input from Bechtel. Should Japan staff up with a Japanese company or the self-defense force?

- It is NRC's understanding that, if needed, the alternative cooling system designed by Bechtel (is a timely and effective option, and that the system) will be accepted by the Japan Ministry of Defense upon arrival at Yokota. After receipt of the equipment, the Ministry of Defense will manage logistics, including transportation of the equipment to the site and coordination of engineering with GE-Hitachi. (NRC understands that other systems and methods to coordinate may be possible.)

Danielle
Sent from an NRC BlackBerry.

From: Doane, Margaret
Sent: Saturday, March 19, 2011 4:19 PM
To: Batkin, Joshua
Subject: Re: Can you find out

I'll forward to interpreter.
Margie

Sent from an NRC Blackberry
Margaret Doane

----- Original Message -----

From: Batkin, Joshua
To: Doane, Margaret
Sent: Sat Mar 19 15:05:41 2011
Subject: Fw: Can you find out

Margie - any way someone who speaks Japanese can verify if this is public on the MEXT site?

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

----- Original Message -----

From: Bradford, Anna
To: Batkin, Joshua
Cc: Coggins, Angela
Sent: Sat Mar 19 15:01:28 2011
Subject: RE: Can you find out

Josh, this morning's 6:00 sitrep report says this:

AMS information shows that dose rates from ground deposition exist between 20 and 30 km that would result in a whole body dose of greater than 1 REM over continuous exposure for 4 days. This information agrees with Ministry of Education, Culture, Sports, Science and Technology (MEXT) field measurements in the same area. The Government of Japan may want to consider extending their evacuation zone beyond the current 20 km (12 mile) radius.

No one believes this is public because we got this info from DOE's sitrep report and it is not public. I looked at all the news sites and Google and couldn't find anything about it. I checked with OPA and Beth Hayden doesn't recall seeing that in any press. However, since it says this information agrees with MEXT measurements, I checked the MEXT website and it has a document called "Readings at Monitoring Post out of 20 Km Zone of Fukushima Dai-ichi NPP" but when you click on it, it's in Japanese only.

Basically, I can't confirm that it's public. Sorry, I'm not being helpful.

Anna Bradford

Policy Advisor for Nuclear Materials
Office of Chairman Jaczko
U.S. Nuclear Regulatory Commission
301-415-1827

-----Original Message-----

From: Batkin, Joshua
Sent: Saturday, March 19, 2011 2:32 PM
To: Bradford, Anna
Cc: Coggins, Angela
Subject: Can you find out

If the DOE dose reading above PAG levels beyond 20km is officially public?

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

From: Doane, Margaret
Sent: Saturday, March 19, 2011 9:37 AM
To: Mamish, Nader
Subject: Re: ACTION: staff notification for Japan deployment

Jack can go but not until next Sat. You can reply. I don't want to mix up lines of communication.

Sent from an NRC Blackberry
Margaret Doane

From: Evans, Michele
To: Mamish, Nader
Cc: Doane, Margaret
Sent: Sat Mar 19 09:28:51 2011
Subject: ACTION: staff notification for Japan deployment

Nader,

Team has been approved and I am going to give the names to the LT by noon.

I believe you have been talking to Jack Ramsey. I'd like for one of us to verbally communicate that he is going before I turn the LT loose on this.

If you can call him by 10:30 please do and let me know. Otherwise, I will call him directly at that time.

Michele

From: Doane, Margaret
Sent: Saturday, March 19, 2011 9:36 AM
To: Mamish, Nader
Subject: International Issues

Nader, we have three things I've put into the Chmn's office that need answers. Any concerns with asking for a quick meeting. Have I missed anything?

I would like to discuss three things with the Chairman. 10 mins.

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Saturday, March 19, 2011 9:10 AM
To: Emche, Danielle; Mamish, Nader; Foggie, Kirk; Ramsey, Jack
Cc: Smith, Brooke
Subject: Re: Questions from NISA

Danielle, please check with the ET to make sure that they agree with my recommendation, and call if they want to talk.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Emche, Danielle
To: Doane, Margaret; Mamish, Nader; Foggie, Kirk; Ramsey, Jack
Cc: Smith, Brooke
Sent: Sat Mar 19 09:06:24 2011
Subject: Re: Questions from NISA

That makes sense. I can forward what we get from the RST for both, but for number 2, we can add the background of our analysis path, considerations, expand on the alternatives.

Danielle

Sent from an NRC BlackBerry.

From: Doane, Margaret
To: Mamish, Nader; Foggie, Kirk; Emche, Danielle; Smiroldo, Elizabeth; Ramsey, Jack
Cc: Smith, Brooke; LIA02 Hoc; LIA03 Hoc
Sent: Sat Mar 19 08:48:04 2011
Subject: Re: Questions from NISA

Agree with Nader to send to team. But, #2, as you seemed to sense, definitely could have an impact on the eventual outcome of this situation and we CANNOT make the decision. My suggestion would be that good strategy points be developed to explain how we looked at each option, the pros and cons considered and then a clear pass to them to decide. If our analysis then influences them that's their decision.

That's a little confusing, so if you need to talk, call.

Nader or Jack any concerns?

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Mamish, Nader
To: Foggie, Kirk; Emche, Danielle; Smiroldo, Elizabeth; Doane, Margaret
Cc: Smith, Brooke; LIA02 Hoc; LIA03 Hoc
Sent: Sat Mar 19 08:04:40 2011
Subject: RE: Questions from NISA

Both Qs should promptly go to the RST. They will coordinate w/NRR as appropriate.

Thanks

From: Foggie, Kirk
Sent: Saturday, March 19, 2011 6:47 AM
To: Emche, Danielle; Smirolfo, Elizabeth; Doane, Margaret
Cc: Smith, Brooke; Mamish, Nader
Subject: Fw: Questions from NISA

Danielle and Elizabeth,

Please pass the first question to the appropriate ops team/s (I think PMT) for NRCJPN team meeting tomorrow. Margie- what is your recommendation for the second question, should this be passed to NRR or NRO, or do you feel this question shouldn't be answered by NRC.

Thanks.

Kirk
Sent from Blackberry.

From: Nakanishi, Tony
To: Foggie, Kirk
Sent: Sat Mar 19 05:52:16 2011
Subject: Questions from NISA

Kirk,

These are my understanding of the questions from NISA:

- 1) US recommends use of borated water for injection. If Japan accepts the US solution, what preparations should Japan consider?
- 2) It appears that the US solution is based on input from Bechtel. Should Japan staff up with a Japanese engineering company or the self-defense force?

Tony

From: Doane, Margaret
Sent: Saturday, March 19, 2011 5:59 AM
To: LIA02 Hoc; Smith, Brooke; Foggie, Kirk; Ramsey, Jack
Subject: Japan Ambassador Visit

Elizabeth please make sure that Brooke and Kirk get the read out, for info.
Jack, please further distribute as appropriate.
Thanks
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
Sent: Saturday, March 19, 2011 5:36 AM
To: Batkin, Joshua
Subject: Re: Materials from Chairman Jaczko meeting

(b)(5)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: Batkin, Joshua; LIA02 Hoc; Ramsey, Jack
Cc: Mamish, Nader
Sent: Sat Mar 19 05:07:27 2011
Subject: Fw: Materials from Chairman Jaczko meeting

Josh. The document is being distributed by e-mail to all of the agency contacts our liaison team uses on a routine basis to get info. out quickly to interested fed agencies. We're sending daily reports. This is the fastest and most efficient way since they then re-distribute within their agencies. I'll also give to Jack to distribute to anyone else. Trish Holohan and others classified it as Unclass but sensitive, so it can go by e-mail.

I didn't edit as I thought that was not directed. However, I added a time 1600. We are doing that because there are so many people in various agencies having conversations it's helpful to know a basic time. I know that might not be exact but

(b)(6)

Margie

Sent from an NRC Blackberry
Margaret Doane

From: Doane, Margaret
To: Rutz, Wayne
Sent: Sat Mar 19 04:43:21 2011
Subject: Re: Materials from Chairman Jaczko meeting

Wayne. Since It's been classified as unclass, please put the time and get to the Liaison desk and have them distribute. Thanks.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Rutz, Wayne
To: Doane, Margaret
Sent: Sat Mar 19 04:30:47 2011
Subject: FW: Materials from Chairman Jaczko meeting

I've attached the materials from the meeting to Josh's e-mail he sent to me. Let me know what you think is the best way to get it out.

Thank you for you help,

Wayne A. Rutz, Special Security Officer
U. S. NRC
11555 Rockville Pike
Rockville, MD 20852

(301) 415-2206 (Office) (b)(6) (Cell)
(301) 415-2190 (FAX)
(301) 415-1139/8369 (Secure FAX)

war@nrc.gov
war@nrc.sgov.gov
war@nrc.ic.gov

"Semper Fidelis"

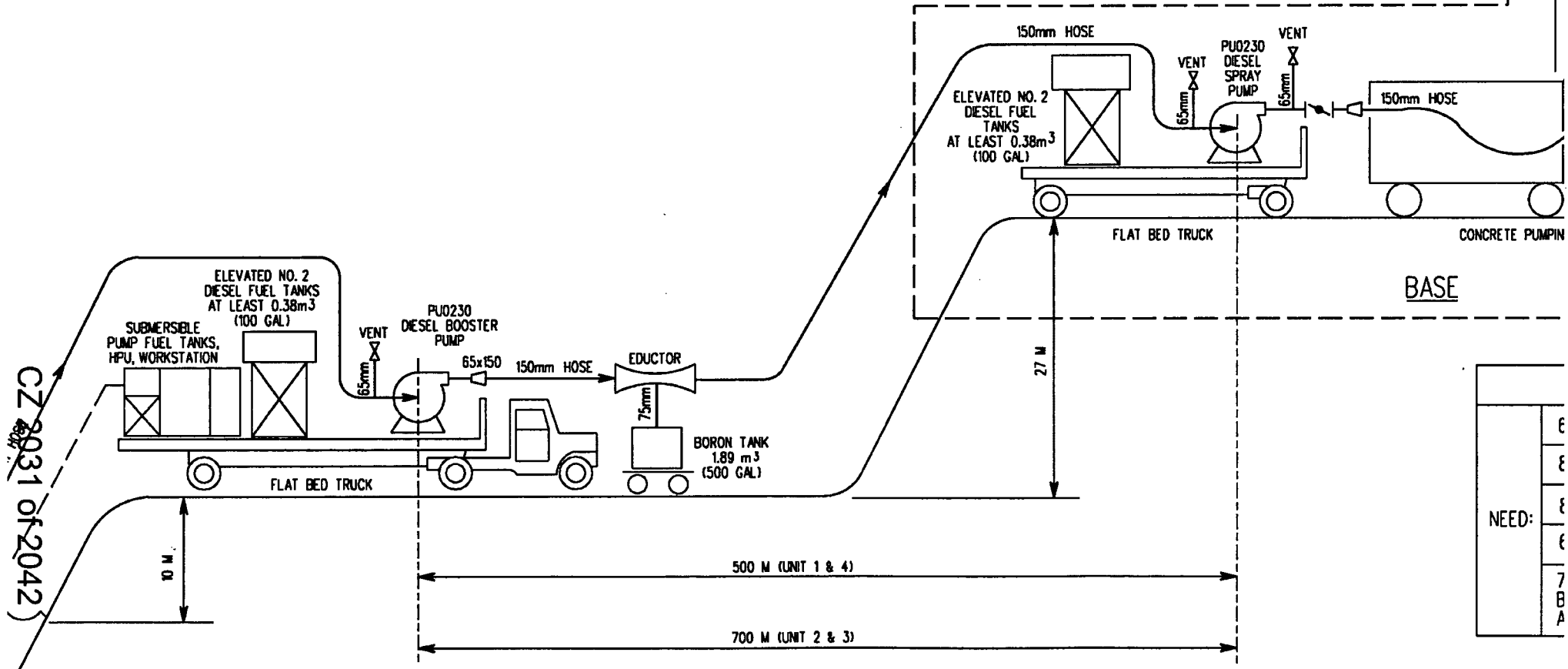
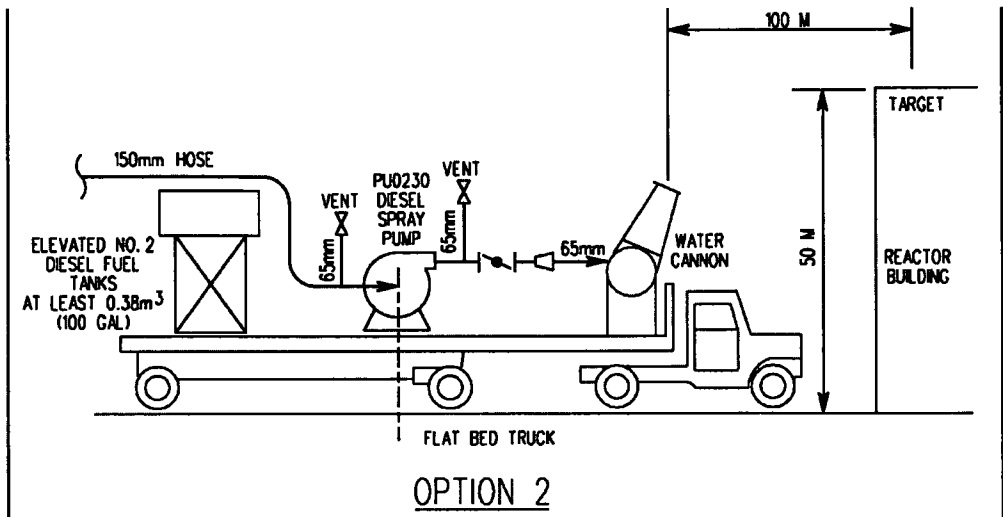
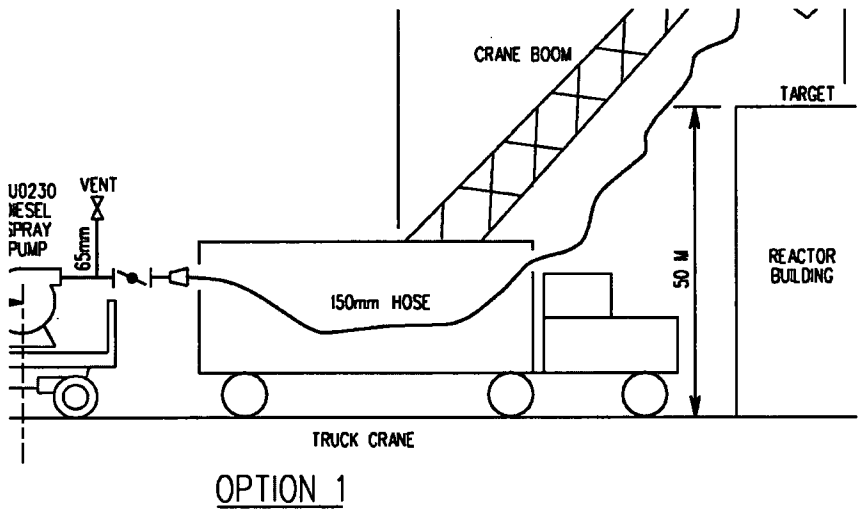
From: Batkin, Joshua
Sent: Saturday, March 19, 2011 12:17 AM
To: Rutz, Wayne
Subject: FW: Materials from Chairman Jaczko meeting
Importance: High

From: Batkin, Joshua
Sent: Friday, March 18, 2011 8:40 PM
To: 'kazuhide.ishikawa@mofa.go.jp'; 'takashi.inutsuka@mofa.go.jp'; 'takeo.mori@mofa.go.jp'; 'kenji.goto-3@mofa.go.jp'
Subject: Materials from Chairman Jaczko meeting
Importance: High

Attached please find electronic copies of the materials provided to you following USNRC Chairman Jaczko's meeting with the Ambassador. Please call me if you have any questions.

Thank you again for inviting us to the embassy today.

Joshua Batkin
U.S. Nuclear Regulatory Commission
202-494-5191 c



CZ 2031 of 2042

On March 18, 2011, Chairman Jaczko met with the Japanese ambassador to the U.S. Ichiro Fujisake to discuss the ongoing situation in Japan. Also in the meeting were members of the Embassy of Japan, including Kenji Goto, Minister of Economy, Trade, Industry, and Energy; Kazuhide Ishikawa, Minister of Plenipotentiary and Deputy Chief of Mission; Takeo Mori, Minister of Economic Affairs; and Takashi Inutsuka, Chief of Science Section.

The Ambassador began by stating how he appreciated the deployment of the U.S. experts to Tokyo. There is now better communication and the Self Defense Forces (SDF) are involved. He would like ideas for how to improve equipment and procedures at the Fukushima site. He added that Unit 3 is the highest priority and Unit 4 is the next highest priority. Unit 3 does not have much water and Unit 4 does have some water, but needs more.

The Ambassador indicated that SDF fire trucks are being used by TEPCO. He asked if they need to dramatically increase water to Unit 3. He stated that there must be a better way of coping with the situation than using a fire truck.

Chairman Jaczko offered his deepest condolences to the Japanese people and added that the NRC stands ready to help however we can. The best source of information for the NRC is the U.S. team in Japan. The NRC is working with U.S. Bechtel company to provide a plan for cooling the reactors and spent fuel pools. The Chairman noted that he remains concerned that not enough individuals are involved in the response operation.

In response to the Ambassador, the Chairman agreed that seawater injection is a longer term concern, but cooling has to be a priority. He agreed that Unit 3 is a priority with the reactor and spent fuel pool (SFP). Unit 4 is also important.

The Chairman asked the Ambassador to help ensure the U.S. team is speaking with the correct people because there have been different judgments based on limited information. Getting the experts together to work through conflicting information and getting agreement on the facts is important and will allow the effort to progress more effectively.

The Ambassador asked how many more people should be involved in the operations and how many more tons of water were needed per day. He would convey the Chairman's assessment to the highest levels of his Government. He also stated that he was aware that salt can make it harder to cool the reactor, that he did not care about salvaging the units because they were already lost, and that he believed that the U.S. team is the best in Japan and asked if they have the right access? Additionally, efforts should be coordinated at the expert level.

Chairman Jaczko agreed that the salt water can have an effect on the reactor but that cooling was paramount. He agreed to provide, within the hour, detailed information on cooling strategies and the number of people that should be involved.

The Ambassador agreed to transmit the information directly to the highest levels of his Government. He added that he thought the US team had two meetings with the relevant Japanese government yesterday and to contact him directly if anything more was needed. If the U.S. can offer more equipment, please let him know. The Ambassador also noted that he was not sure of the reaction in Japan of additional US aid, but indicated that he would like whatever aid we could offer because we have to try everything possible, even if it turns out not to be successful.

The Ambassador then noted that there are differences of opinion on the Unit 4 SFP levels. It appears there is some water, but there is also insufficient data. He asked for the Chairman's views and the Chairman agreed the data was conflicting. The Ambassador asked the Chairman to let him know if the NRC has estimates that are different from what the SDF said yesterday.

The Chairman inquired about the restoring of AC power to the site. The Ambassador indicated that power had been restored in the area, but lines to the reactor are disconnected. He indicated that it will take more time, but connections will not happen in a day or two. AC power is expected at Units 1 and 2 the morning of March 19th and hopes the equipment will function. He was not sure about Units 3 and 4.

The Chairman indicated that the NRC will continue to work to share information so that the U.S. and Japn can come to a common conclusion about what is going on.

The Ambassador asked if the SFP does indeed lose all its water, what would occur and for how long. The ambassador asked if the main concern was over the potential for a zirconium fire or for the re-initiation of criticality. The Chairman indicated it would be a very serious situation. There could be a fire and material would distribute over a wider area, which was part of the basis for the 50-mile evacuation recommendation the U.S. Government issued to American Citizens. The fire would lift particles higher into the air and events con transpire very quickly once the SFP is dry.

The Ambassador noted that they tried helicopter flyovers to drop water into pools, but he recognized that was not an effective strategy. Japanese personnel are now concentrating their efforts on adding water from the ground level, but 80 meters is the closest they can

get to the facility because of the radiological hazard. He asked if the U.S. has robotic equipment or other unmanned equipment that could assist this effort.

The Chairman agreed that pumping water from the ground was the better strategy and indicated it was a very difficult situation. He said he would take the request for robotic equipment back to the USG to determine if there was anything available. He said that some activities may ultimately be required that cause harm to the emergency workers. Such a decision is very difficult to make but may be necessary to prevent the situation from becoming even worse.

The Ambassador inquired whether or not relying on 50 people was sufficient. Should it be 100 or more and should they work on a rotational basis? Should there be more teams?

The Chairman said that there should be more people to do the work and to do more cooling and he understood the difficulty determining radiation levels since the data has not been comprehensive. Again, he noted that it may be becoming necessary to consider life threatening emergency actions to prevent greater consequences, as serious as such a decision would be.

The ambassador inquired about radiation exposure limits in the U.S. The Chairman replied the early phase radiation dose limit for occupational workers is 5 rem and up to 25 rem for the protection of large populations. The ambassador asked if the U.S. had ever exceeded that higher limit and the Chairman replied he was not aware of the US exceeding that dose but he acknowledged that it would be a difficult decision to make.

The Ambassador asked about whether the US had access to special radiation suits they did not have and personnel who could help train staff on their use. However, the NRC indicated that they weren't aware of such equipment – that radiation protection requires erecting walls and barriers to protect from gamma radiation. But the chairman did commit to ask other federal agencies about any assets that may be useful.

The Ambassador asked about the need to expand beyond 50 miles and what could be the worst case scenario. The Chairman indicated that, at this juncture there was not a need to expand further, rather this was a conservative analysis based on limited information. The US did not know if actions had yet been taken in Japan to interdict food in what the US refers to as the broader ingestion pathway, which also was a factor in the decision to recommend 50 miles evacuation.

The Ambassador again thanked the Chairman, indicating he was very appreciative of him coming to the embassy to meet with him. The Ambassador told the Chairman to let him know if the U.S. team was not able to speak with anyone they thought necessary.

The Chairman concluded with a statement fondly noting the three months he spent in Japan as a graduate student which had given him an even greater appreciation of the special relationship between our two countries.

Following the meeting, the Chairman and the Executive Director for Operations Bill Borchardt spent several minutes meeting with embassy officials and provided the specific information noted in the meeting, including a Bechtel-designed pumping system schematic and equipment list for providing more reliable cooling to the Fukushima plant. The NRC estimates that about 300 people would need to be involved to accomplish all the activities including pumping, dose monitoring, and rotating shifts. Borchardt note this was a straightforward design with equipment that could be procured in Japan.

The Chairman indicated that this information had been discussed with Japanese officials but not to this level of detail. The Ambassador's staff noted that the Ambassador he speaks with the Foreign Minister many times a day and has good communication with the Prime Minister's office and would use those channels to get information to the highest levels of the Japanese government. The Chairman noted he would ask the U.S. team in Tokyo too provide this information to their Japanese colleagues as well.

There has been no specific information handed over to TEPCO regarding the specific tasks, equipment or people to implement immediate actions. The following general topics have been discussed:

Tasks

Urgently place water on spent fuel pools in the damaged Fukushima Daiichi Units 1, 2, 3, 4 with all available equipment

Establish temporary cooling system for spraying water on Units 1, 2, 3, and 4

Continue to closely monitor and add water to spent fuel pools in Fukushima Daiichi Units 5 & 6

Establish more permanent means of temporary cooling to the reactor cores on Units 1, 2, 3

Equipment

All equipment available to the Government of Japan should be used to implement immediate actions to cool the spent fuel pools on Units 1, 2, 3, 4

Equipment list and drawing for "Bechtel" four train system should be supplied.

People

Establish teams to implement multiple cooling water actions at the same time.

- Several hundred people would likely be required to implement spent fuel pool cooling tasks and manage the activities.
- Health Physics support

From: Doane, Margaret
Sent: Saturday, March 19, 2011 4:46 AM
To: Virgilio, Martin
Subject: Re: Rad data

Great. If not I was going to suggest that we have Kirk or Brooke separate from the team and pick up or request anything you need. But it sounds like you have good communication from NISA/TEPCO.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Virgilio, Martin
To: Doane, Margaret
Sent: Sat Mar 19 04:35:31 2011
Subject: RE: Rad data

Margie

We continue to work with both NISA and TEPCO to acquire the data.

Marty

PS: expect a call at 7am to invite you to a 745 call to discuss a meeting we will have with DOE, NR and industry this afternoon at 2pm, here at WF.

From: Doane, Margaret
Sent: Saturday, March 19, 2011 4:31 AM
To: Virgilio, Martin
Subject: Rad data

Marty. I'm not monitoring anything this evening, are you getting the rad data you need since things are changing.
Margie

Sent from an NRC Blackberry
Margaret Doane

From: Virgilio, Martin
To: Doane, Margaret
Sent: Sat Mar 19 01:19:28 2011
Subject: RE: WikiLeaks: 09 UNVIE 536

Thanks, Margie

From: Doane, Margaret
Sent: Friday, March 18, 2011 10:01 AM
To: Coggins, Angela; Batkin, Joshua

Cc: Virgilio, Martin; Brenner, Eliot; Borchardt, Bill
Subject: FW: WikiLeaks: 09 UNVIE 536

Not sure if we will get asked about this. But, thought you should know.
Margie

From: Schwartzman, Jennifer
Sent: Friday, March 18, 2011 9:51 AM
To: Doane, Margaret; Mamish, Nader
Cc: Fragoyannis, Nancy
Subject: URGENT URGENT Fw: WikiLeaks: 09 UNVIE 536

FYI URGENT
Sent from an NRC Blackberry

From: Shaffer, Mark R <ShafferMr@state.gov>
To: LIA02 Hoc
Cc: Schwartzman, Jennifer
Sent: Fri Mar 18 09:47:06 2011
Subject: Fw: WikiLeaks: 09 UNVIE 536

You should make Virgilio, Doane, etc aware of this in case Chairman gets asked what he thinks about it...the media are going to have a field day with this..

From: Hall-Godfrey, Jennifer J
To: Stratford, Richard J; Burkart, Alex R; Connor, Julie G; Milich, Daniel S; Wong, Yvette M; Hanson, Evan A; Cook, Nerissa J; Cooper, Kurtis A; Schlachter, Mark M; Clark, Jeanne L
Cc: Scheland, Mark DL; Cooper, Nathan J; Shaffer, Mark R; Wood, Robert A
Sent: Fri Mar 18 09:34:37 2011
Subject: WikiLeaks: 09 UNVIE 536

I just sent an e-mail high side re the publication on WikiLeaks of (allegedly) 09 UNVIE 536, which details significant criticism of previous DDG for Safety and Security Taniguchi, characterizing him as a weak manager and leader who hindered the Safety and Security Department. The cable's release obviously is meant to imply a connection between Fukushima and weaknesses within the Department of Safety and Security, particularly while under Japanese management. I wrote on the high side that media had not yet picked up the cable, but when I came back to my office, I see Reuters has, see below, combining it with reporting out of Japan.

Aside from the Japanese angle, the cable details our views on possible successors to Taniguchi, in particular voicing significant concern over a possible French successor, noting that France has an unhealthy influence over Safety and Security and detailing interplay between Areva/the French nuclear industry and the French government.

Reuters: Japanese power companies hid nuclear safety problems: WikiLeaks

March 17, 2011

Tom Miles

HEINZ-PETER BADER/REUTERS

BEIJING—Eighteen months before Japan’s radiation crisis, U.S. diplomats had lambasted the safety chief of the world’s atomic watchdog for incompetence, especially when it came to the nuclear power industry in his homeland, Japan.

Cables sent from the U.S. embassy in Vienna to Washington, which were obtained by WikiLeaks and reviewed by Reuters, singled out Tomihiko Taniuchi, until last year head of safety and security at the International Atomic Energy Agency (IAEA).

“For the past 10 years, the department has suffered tremendously because of (deputy director general) Taniguchi’s weak management and leadership skills,” said one dispatch on Dec. 1, 2009.

“Taniguchi has been a weak manager and advocate, particularly with respect to confronting Japan’s own safety practices, and he is a particular disappointment to the United States for his unloved-step-child treatment of the Office of Nuclear Security,” said another, which was sent on July 7, 2009.

The IAEA does not comment on the contents of leaked cables.

The evidence of concern about the Japanese national surfaced as his country scrambled to avert a lethal spread of radiation from earthquake-damaged nuclear reactors north of Tokyo.

Japan’s crisis has brought scrutiny of its nuclear authorities and, in particular, the operator of the stricken reactors, which has a history of falsifying data at its plants.

Separate cables quoted a Japanese lawmaker as telling visiting U.S. officials in October 2008 that power companies in Japan were hiding nuclear safety problems and being given an easy ride on commitments to renewable energy by the government.

Taro Kono, a supporter of renewable energy who in 2009 bid unsuccessfully for leadership of his Liberal Democratic Party (LDP), also said Japan had no solution for nuclear waste storage. He asked if there was anywhere appropriate to store waste given that Japan was the “land of volcanoes.”

Kono was not immediately available for comment.

TOKYO ELECTRIC HAS ROCKY PAST

The operator of the Fukushima Daiichi plant now at the centre of the crisis – the Tokyo Electric Power Co (TEPCO) – has had a rocky past in an industry plagued by scandal.

Five TEPCO executives resigned in 2002 over suspected falsification of nuclear plant safety records and five reactors were forced to stop operations.

In 2006, the government ordered TEPCO to check past data after it reported finding falsification of coolant water temperatures at its Fukushima Daiichi plant in 1985 and 1988, and that the tweaked data was used in mandatory inspections at the plant, which were completed in October 2005.

The risk of earthquakes and tsunamis was already well known before last Friday's massive earthquake, but many of Japan's nuclear power plants, including the now-crippled Fukushima complex, were built before the most modern safety standards.

An unnamed IAEA official told the G8 Nuclear Safety and Security Group in December 2008 that guidelines for seismic safety had only been revised three times in the past 35 years and that the IAEA was re-examining them, another WikiLeaks cable showed.

"Also, the presenter noted recent earthquakes in some cases have exceeded the design basis for some nuclear plants, and that this is a serious problem that is now driving seismic safety work," the cable said.

'EVERYTHING IS A SECRET'

Leaks of radioactive steam and workers contaminated with radiation are just part of the disturbing catalogue of accidents that have occurred over the years and been belatedly reported to the public, if at all, the [Associated Press reports](#).

In one case, workers hand-mixed uranium in stainless steel buckets, instead of processing by machine, so the fuel could be reused, exposing hundreds of workers to radiation. Two later died.

"Everything is a secret," said Kei Sugaoka, a former nuclear power plant engineer in Japan who now lives in California. "There's not enough transparency in the industry."

Sugaoka worked at the same utility that runs the Fukushima Dai-Ichi nuclear plant where workers are racing to prevent a full meltdown following Friday's 9.0 magnitude quake and tsunami.

In 1989 Sugaoka received an order that horrified him: edit out footage showing cracks in plant steam pipes in video being submitted to regulators. Sugaoka alerted his superiors in the Tokyo Electric Power Co., but nothing happened. He decided to go public in 2000. Three Tepco executives lost their jobs.

Competence and transparency issues aside, some say it's just too dangerous to build nuclear plants in an earthquake-prone nation like Japan, where land can liquefy during a major temblor.

"You're building on a heap of tofu," said Philip White of Tokyo-based Citizens' Nuclear Information Center, a group of scientists and activists who have opposed nuclear power since 1975.

"There is absolutely no reason to trust them," he said of those that run Japan's nuclear power plants.

REPORT WANTED PLANTS FAR FROM SEA

IAEA Director General Yukiya Amano said on Wednesday before leaving for Japan that the agency had been trying continuously to help improve the safety of nuclear plants against earthquakes.

A draft IAEA report on safety standards, published in October 2009, recommended that nuclear power plants be located more than 10 kilometres from the sea or ocean shoreline, or more than one km from a lake or fjord shoreline; or at an elevation of more than 50 metres from the mean water level.

"To my knowledge, all of the nuclear power plants in Japan are located quite close to the ocean," said Daniel Aldrich, author of *Site fights*, a book about how decisions were taken on where to build nuclear power plants in Japan and elsewhere.

"This is for two reasons: 1) normally, cooling pipes carry in seawater through the reactor unit and cool it off, and then dump the warmer water back in the ocean (these pipes are not functioning normally at this point), and 2) these areas are remote, far from high population density areas, and they have the least resistance from civil society," he said in emailed comments.

The latest IAEA recommendations are far more stringent than the original standards set for Japanese plants. The six reactors at the Daiichi facility were commissioned between 1971 and 1979, while two other Japanese nuclear reactors date back to 1970.

"An anomalous magnitude 9.0 scale is far beyond the assumed safety standard when Fukushima Daiichi Nuclear Power Station started up forty years ago," Yu Shibutani, director of Energy Geopolitics Ltd of Japan, said in an email to Reuters.

"The tsunami walls either should have been built higher, or the generators should have been placed on higher ground to withstand potential flooding, but it has failed.

"The accident exposes shortcomings in risk analysis as well as in engineering, and also the plant didn't meet safety standards in both quake and tsunami wall."

*Jennifer Hall Godfrey
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