
From: LIA04 Hoc
Sent: Monday, March 14, 2011 7:17 PM
To: LIA06 Hoc
Cc: Barker, Allan; Browder, Rachel; Collins, Elmo; Dean, Bill; Erickson, Randy; Heck, Jared; Logaras, Harral; Maier, Bill; McCree, Victor; McNamara, Nancy; Tift, Doug; Trojanowski, Robert; Woodruff, Gena; Flannery, Cindy; Lukes, Kim; Noonan, Amanda; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard; Virgilio, Rosetta
Subject: FW: ACTION: Do States Require Additional Information?
Attachments: Questions from the States.doc

Amanda Noonan
State Liaison – Liaison Team
Incident Response Center

From: Virgilio, Rosetta
Sent: Monday, March 14, 2011 6:45 PM
To: Turtill, Richard; LIA04 Hoc; Mroz (Sahm), Sara
Subject: FW: ACTION: Do States Require Additional Information?

I agree

From: LIA04 Hoc
Sent: Monday, March 14, 2011 6:25 PM
To: Virgilio, Rosetta; LIA06 Hoc; Thaggard, Mark; McGinty, Tim
Cc: Noonan, Amanda; Brenner, Eliot; Mroz (Sahm), Sara; Miller, Charles; Leeds, Eric; Virgilio, Martin
Subject: RE: ACTION: Do States Require Additional Information?

I think it is important to make sure that NSIR/EP is looped in on the development and distribution of any answers. This is for a few reasons: 1) to maintain consistency with existing EP messaging; 2) to ensure consistency with FEMA REPP communications; and 3) to allow for consistency with any future messaging.
-Sara (from the LT room)

Sara Mroz
Outreach and Communications
Office of Nuclear Security and Incident Response
Sara.Mroz@nrc.gov

From: Virgilio, Rosetta
Sent: Monday, March 14, 2011 6:13 PM
To: LIA06 Hoc; Thaggard, Mark; McGinty, Tim
Cc: Noonan, Amanda; LIA04 Hoc; Brenner, Eliot; Mroz (Sahm), Sara; Miller, Charles; Leeds, Eric; Virgilio, Martin
Subject: RE: ACTION: Do States Require Additional Information?

RRR/1

Thank you, Tim. In my conversation with OEDO (just prior to receiving your email) I was informed that NRR/Eric Leeds has taken on the responsibility (Quynh Nguyen is the POC) for the collection of questions and development of answers for responding to our stakeholders on the events involving the earthquake in Japan and the implications for NRC licensees. That being the case, shouldn't we provide the State Qs to NRR to address?

From: LIA06 Hoc

Sent: Monday, March 14, 2011 5:56 PM

To: Thaggard, Mark; LIA04 Hoc; Miller, Charles; Virgilio, Rosetta; Brenner, Eliot; Mroz (Sahm), Sara; Noonan, Amanda

Subject: RE: ACTION: Do States Require Additional Information?

This email is primarily for Charlie and Rosetta, to close the loop. We discussed the need for providing consistent information to the States, via the RSLO's, with the Executive Team and the Chairman a few minutes ago. The Chairman directed us to coordinate with FEMA since they have an established relationship with the States. We settled on working with OPA to provide the information tailored to our best extent to the questions and concerns that would be expressed by the States, and provide to FEMA for awareness and commonality, and then the RSLO's for sharing.

A broad conference call with all States is not currently being contemplated, we'd like to see how providing a common set of information works first. Tim McGinty, LT Director

From: Tifft, Doug

Sent: Monday, March 14, 2011 3:44 PM

To: McNamara, Nancy; LIA04 Hoc; Woodruff, Gena; Barker, Allan; Logaras, Harral; Maier, Bill; LIA06 Hoc

Cc: Turtill, Richard; Virgilio, Rosetta; Rautzen, William; Lukes, Kim; Flannery, Cindy; Trojanowski, Robert

Subject: RE: ACTION: Do States Require Additional Information?

Amanda,

We just got off a conference call with all the Region 1 state liaison officers and emergency directors. Bill Dean opened the meeting. A strong message the states sent Bill was that they need to be informed before information hits the public.

Here are some of the questions we heard. I broke them into the two categories you requested. I think we need answers to the hypothetical questions ASAP as well. (I know we'll be looking for this for our upcoming annual assessment meetings, that start for Region 1 next week.)

Questions related to event in Japan:

Could this happen at [X plant]?

What is the sequence of events at the Japanese reactors?

What is the magnitude of the release at the Japanese facility? (There are conflicting reports in the press.) (ie, offsite dose rates)

Who are the Federal Contacts (for the state) to get information on what DOE & EPA are doing?

When will the plume hit the US?

What are the environmental consequences to the US?

What dose rates do we expect to see in the US?

How do the Japanese reactor designs compare to the US reactor designs of similar vintage?

When the states receive questions from the public / media that the NRC would be better to answer, where should they direct these calls?

What is the NRC doing to correct misinformation in the public / media?

Hypothetical questions related to US plants:

What would the effect be on [plant X] if a 9.0 earthquake hit?

What would the effect be on [plant X] if a subsequent tsunami hit?
Why is Indian Point safe if there is a fault line underneath it?

-Doug

From: McNamara, Nancy
Sent: Monday, March 14, 2011 1:27 PM
To: LIA04 Hoc; Tifft, Doug; Woodruff, Gena; Barker, Allan; Logaras, Harral; Maier, Bill; LIA06 Hoc
Cc: Turtill, Richard; Virgilio, Rosetta; Rautzen, William; Lukes, Kim; Flannery, Cindy
Subject: RE: ACTION: Do States Require Additional Information?

Absolutely. We are having a conf. call at 1:30 w/all our states to hear their opinions. But the more we can give, the better. We've been getting questions all morning and Bill Dean has a call with a NY congressional arranged through OCA.

From: LIA04 Hoc
Sent: Monday, March 14, 2011 1:24 PM
To: McNamara, Nancy; Tifft, Doug; Woodruff, Gena; Barker, Allan; Logaras, Harral; Maier, Bill; LIA06 Hoc
Cc: Turtill, Richard; Virgilio, Rosetta; Rautzen, William; Lukes, Kim; Flannery, Cindy
Subject: ACTION: Do States Require Additional Information?

Nancy, Doug, Bob, Gena, Alan, Harral, and Bill:

It is our understanding that a few additional questions from SLOs have come in from states following distribution/communication of recent Q&As and Press Releases.

In view of this, we are assessing whether additional information may be needed/if there are additional pressing questions about **the radiological fallout from Japan.**

Currently the Operation Center is responding to an International Emergency and any possible implications from this event that may affect the United States. If States have specific questions about Reactors in the United States they should be answered by the RSLO's if it reasonable. If the questions are regarding hypothetical events at U.S. Reactors these questions can be collected and answered, if possible, at a later date.

BOTTOM LINE: do we sense a need to provide additional Q&As and other information pieces that respond to State needs? We respectfully request that you make this assessment using practical judgment and beg your indulgence in communicating real State needs for additional information.

Amanda Noonan
State Liaison – Liaison Team
Incident Response Center

It's just the ex-reporter in me but I notice the news release doesn't specify how big an earthquake or how great a tsunami that CA nuclear power plants are built to withstand. Anybody know that? See attached draft responses – not approved by OPA.

Michael Sicilia
Assistant Deputy Director
Office of Public Affairs
California Department of Public Health
916.440.7259 office

(b)(6) blackberry

The California Department of Public Health is dedicated to optimizing the health and well-being of the people in California.

Needless to say, there are a lot of questions being asked because of the devastation in Japan. The Director, Secretary of EOPSS and Governor's office have been asking questions and I have been sending out information I have received on the plants in Japan. I would like all three plants to answer the following questions that I have been asked.

- What is the seismic limit that Pilgrim Station, Seabrook Station and Vermont Yankee have been built to withstand?
- Please explain that outcome at each plant if it was hit with a 8.9 earthquake the same as what hit Japan?
- For Pilgrim Station and Seabrook Station, what design and safety precautions have been installed at your plant to sustain a devastating tsunami that would hit as did the tragedy at the Japanese plants?
- If the same tragedy hit our plants would we be having the same major issues that the Japanese plants have? Please explain yes or not

Please let me know when I can expect an answer to these questions or if you would like to meet and discuss that would be ok

Thanks and let me know if you have any questions
John

John Giarrusso, Jr.
Planning and Preparedness Division Chief
MEMA

508-820-2040 (w)

(b)(6) (c)

We just got off a conference call with all the Region 1 state liaison officers and emergency directors. Bill Dean opened the meeting. A strong message the states sent Bill was that they need to be informed before information hits the public.

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Doug Tift

Nancy - I obviously don't have enough facts to do a proper accident assessment, but it does seem that the loss of electrical power supply is at the heart of much of the problems. Loss of on-site generation, loss of off-site generation, loss of emergency diesel generators, and loss of battery supply taking out the steam driven RCIC pumps. My initial questions are:

What specific design features of the US plants are similar to any of the failed features at the Japanese plants and if we are "better" how is that evidenced. Example - design of off-site and back-up power supplies.

In Japan the battery life was designed for 8 hours then failed, as expected. How does the US plant battery life design compare; and for those plants with only 4-hour back-up, how does that bode as an acceptable/better design?

Boron or boric acid injection into the primary coolant in BWR's (Standby Liquid Control System) is intended to kill the reaction. It appears that either this was not a design feature of the Japanese plants, they did not activate this system, or power failures rendered it useless. As sea water was being pumped into the PC, reports indicate that they added boric acid.

For the plants I'm familiar with, they all have the ability to inject city/river/lake/sea water as an emergency measure. My question then is: during last ditch efforts to inject alternate source water, is the injection of boric acid along with the water injection part of the plans and procedures for the US plants?

From: paul_eddy@dps.state.ny.us [mailto:paul_eddy@dps.state.ny.us]

Sent: Monday, March 14, 2011 2:56 PM

To: McNamara, Nancy

Cc: Tift, Doug; michael_worden@dps.state.ny.us; Alyse Peterson

Subject: Re: Getting Information for our States

Mike Lee, environment reporter
The San Diego Union-Tribune
uniontribune.com
@SDutlee
ph: 619-293-2034 *ML*

"And it never failed that during the dry years the people forgot about the rich years, and during the wet years they lost all memory of the dry years. It was always that way."

— John Steinbeck

Uselding, Lara


From: Uselding, Lara
Sent: Monday, March 14, 2011 3:39 PM
To: 'mike.lee@uniontrib.com'
Subject: RE: another SDUT request

I can't speculate on that but what I can share is that the NRC Chairman Gregory Jaczko was at the White House today to brief the media there on the NRC response to the Japanese nuclear emergency. In part, he said that the type and design of the Japanese reactors and the way events have unfolded give us confidence in saying radiation at harmful levels will not reach the U.S. We will continue to monitor and update information if that changes or something new arises.

From: mike.lee@uniontrib.com [<mailto:mike.lee@uniontrib.com>]
Sent: Monday, March 14, 2011 3:36 PM
To: Uselding, Lara
Subject: RE: another SDUT request

Thanks, Lara... I did see this, but it doesn't appear to address the question of a meltdown -- just the current situation... as you know, people out here are wondering about the worst-case scenario and I'd like to give them some good information about the likely impacts if that comes to pass.

Please advise.

Mike Lee, environment reporter
The San Diego Union-Tribune
uniontribune.com
@SDutlee
ph: 619-293-2034 

"And it never failed that during the dry years the people forgot about the rich years, and during the wet years they lost all memory of the dry years. It was always that way."
— John Steinbeck

From: Uselding, Lara [<mailto:Lara.Uselding@nrc.gov>]
Sent: Monday, March 14, 2011 1:28 PM
To: Lee, Mike
Subject: RE: another SDUT request

Hello Mike: Haven't forgotten about you just responding in order. I have spoken to your colleague and working on something for him.
See below:

NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION
Office of Public Affairs Telephone: 301/415-8200
Washington, D.C. 20555-0001
E-mail: opa.resource@nrc.gov Site: www.nrc.gov
Blog: <http://public-blog.nrc-gateway.gov>

RRR/2

March 13, 2011

**NRC SEES NO RADIATION AT HARMFUL LEVELS REACHING U.S.
FROM DAMAGED JAPANESE NUCLEAR POWER PLANTS**

The Nuclear Regulatory Commission is coordinating with the Department of Energy and other federal agencies in providing whatever assistance the Japanese government requests as they respond to conditions at several nuclear power plant sites following the March 11 earthquake and tsunami. The NRC has sent two boiling-water reactor experts to Japan as part of a U.S. Agency for International Development team.

In response to nuclear emergencies, the NRC works with other U.S. agencies to monitor radioactive releases and predict their path. All the available information indicates weather conditions have taken the small releases from the Fukushima reactors out to sea away from the population. Given the thousands of miles between the two countries, Hawaii, Alaska, the U.S. Territories and the U.S. West Coast are not expected to experience any harmful levels of radioactivity.

During a nuclear event the NRC has requirements to protect populations around reactors. For instance, the U.S. evacuation standard at 10 miles is roughly equivalent to the 20-kilometer distance recommended in some instances in Japan. The United States also uses sheltering in place and potassium iodide, protective measures also available in Japan.

The NRC will not comment on hour-to-hour developments at the Japanese reactors. This is an ongoing crisis for the Japanese who have primary responsibility.

###

Lara Uselding

U.S. Nuclear Regulatory Commission (NRC)

Public Affairs - Region IV

Lara.Uselding@nrc.gov

(b)(6)

Office: 817-276-6519

For more information visit www.nrc.gov

From: mike.lee@uniontrib.com [<mailto:mike.lee@uniontrib.com>]**Sent:** Monday, March 14, 2011 1:18 PM**To:** Uselding, Lara**Subject:** another SDUT request

Lara:

Sorry about double-dipping here, but Lawrence Livermore just sent me your way... I know you already are in contact with my colleague Keith....

, I am seeking a nuclear expert today to talk about:

1. What kind of fallout California would have from a nuclear meltdown in Japan (prevailing winds come this way)
See attached press release
2. Any precautions that residents can/should take
3. Nuclear 101: how much do we live with daily? What are the most problematic elements from a human health perspective? What kinds of thing create radiation

Please advise.

From: OST02 HOC
Sent: Thursday, March 24, 2011 3:50 PM
To: PMT02 Hoc; PMT11 Hoc; Hoc, PMT12
Subject: FW: IAEA distributed documents
Attachments: Radiation_Monitoring_Data_No49.pdf; PlantParametersData_March24_1805(Japanese).pdf; Plant_Data_by_UnitMay24_1100(English).pdf; NISA_METI_News_Release_No49(Japanese).pdf

From: HOO Hoc [mailto:HOO.Hoc@nrc.gov]
Sent: Thursday, March 24, 2011 3:02 PM
To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC
Subject: FW: IAEA distributed documents

From: Kenagy, W David[SMTP:KENAGYWD@STATE.GOV]
Sent: Thursday, March 24, 2011 2:58:23 PM
To: Kenagy, W David; vince.mcclelland@nnsa.doe.gov; Rodriguez, Veronica; ann.heinrich@nnsa.doe.gov; HOO Hoc; HOO2 Hoc; Huffman, William; decair.sara@epamail.epa.gov; timothy.greten@dhs.gov; maria.marinissen@hhs.gov;(b)(6) doehgeoc@oem.doe.gov; hhs.soc@hhs.gov; james.kish@dhs.gov; HOO Hoc; Smith, Brooke; Zubarev, Jill E; Shaffer, Mark R; nitops@nnsa.doe.gov; Skypek, Thomas M; (b)(6) clark.ray@epamail.epa.gov; Stern, Warren
Subject: RE: IAEA distributed documents
Auto forwarded by a Rule

RRR/3

地震被害情報（第49報）
（3月24日19時30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. 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、3月24日午前の時点で、14名（全員東電社員）であり、更に、本日福島第一原子力発電所3号機タービン建屋において、ケーブル敷設作業を行っていた作業員3名（全員協力社員）について、170mSv以上の線量を確認しことから、あわせると100mSvを超過した作業員は17名となっている。

2. 原子力発電所関係

○福島第一原子力発電所

- ・3号機使用済燃料プールに冷却材浄化系を用いて海水約120tを注入（24日5:35頃～16:05頃）。
- ・4号機の使用済燃料プールにコンクリートポンプ車（50t/h）を用いて海水を約150t放水（24日14:36～17:30）。
- ・5号機の仮設のRHRSポンプの修理が完了（24日16:14）し、冷却を再開（24日16:35）。
- ・使用済燃料共用プールについて、外部からの電源供給を開始（24日15:37）し、冷却を開始（24日18:05）。

3. 産業保安関係

別紙参照

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、20日14:30冷温停止）

6号機（110万kW）（定検により停止中、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（24日18:05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]	0.540(A) 0.468(B)	0.065(A) 0.065(B)	0.139(A) 0.000(C)	—	0.137	0.109
原子炉格納容器圧力 (D/W) [kPa]	355	110	107	—	—	—
原子炉水位*2 [mm]	-1650(A) -1650(B)	-1200(A) 不明(B)	-1850(A) -2300(B)	—	1937	2311
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]	355	D/S	200	—	—	—
使用済燃料プール 水温度 [°C]	—	40	—	指示不良	49.0	28.5
備考	3/24 17:00 現在の値	3/24 17:00 現在の値	3/24 18:00 現在の値	3/24 11:00 現在の値	3/24 17:00 現在の値	3/24 17:00 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（11日16:36）
- ・ベント操作（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(12日20:20)→14日01:10一時中断
- ・1号機で爆発音。(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 ($2\text{m}^3/\text{h}$ → $18\text{m}^3/\text{h}$) (23日02:33)。その後、給水系のみに切替 (約 $11\text{m}^3/\text{h}$) (23日9:00)
- ・中央制御室の照明が復帰 (24日11:30)
- ・原子炉圧力容器へ海水注入中。(24日 19:30 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（11日16:36）
- ・ベント操作（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（14日11時過ぎ）
- ・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）
- ・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(14日16:34)
- ・原子炉圧力容器の水位が低下傾向（14日22:50）
- ・ベント操作（15日0:02）
- ・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）
- ・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（19日13:30 現在）
- ・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）(20日15:05～17:20)
- ・2号機のパワーセンター受電（20日15:46）
- ・白煙が発生（21日18:22）
- ・白煙はほとんど見えない程度に減少（22日7:11 現在）
- ・使用済燃料プールに海水を18t注入（22日16:07～17:01）
- ・原子炉圧力容器へ海水注入中（24日 19:30 現在）

< 3号機関係 >

- ・ ベント操作 (12日 20:41)
- ・ ベント操作 (13日 9:20)
- ・ 3号機の原子炉圧力容器内に消火系ラインから真水注入開始(13日 11:55)
- ・ 3号機の原子炉圧力容器内に消火系ラインから海水注入開始(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)
- ・ ベント操作 (14日 5:20)
- ・ 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)から作業員退避 (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)
- ・ 警察庁機動隊が放水のため現場到着 (17日 16:10)
- ・ 自衛隊消防車により放水 (17日 19:35)。
- ・ 警察庁機動隊による放水 (17日 19:05～19:13)
- ・ 自衛隊消防車5台が放水 (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 (18日 14時前～14:38)
- ・ 米軍消防車1台が放水 (18日 14:45終了)
- ・ 東京消防庁ハイパーレスキュー14台が正門前に到着し (18日 23:10)、うち、6台が地上放水のため発電所に入構 (18日 23:30)
- ・ 東京消防庁ハイパーレスキュー隊が放水 (20日 3:40終了)
- ・ 3号機の格納容器内圧力が上昇 (20日 11:00 現在 320kPa)。圧力下げる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 (21日 12:15 120 kPa)
- ・ ケーブル引き込みの現地調査 (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 (20日 21:39～21日 03:58)
- ・ 灰色がかかった煙が発生 (21日 15:55頃)
- ・ 煙が収まっていることを確認 (21日 17:55)
- ・ 灰色がかかった煙は白みがかかった煙に変化し終息に向かっていると思われる (22日 7:11 現在)

- ・東京消防庁及び大阪市消防局が放水（約 180t）（22 日 15:10～15:59）
- ・中央制御室の照明が復帰（22 日 22:43）
- ・使用済燃料プールに冷却浄化系から海水 35t 注入（23 日 11:03～13:20）
- ・原子炉建屋からやや黒色がかった煙が発生（23 日 16:20 頃）。23 日 23:30 頃及び 24 日 4:50 頃に確認したところ止んでいる模様。
- ・使用済燃料プールに冷却材浄化系を用いて海水約 120 t を注入（24 日 5:35 頃～16:05 頃）
- ・原子炉圧力容器へ海水注入中（24 日 19:30 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。
- ・4号機の使用済燃料プール水温度が上昇（3月14日4:08時点84℃）
- ・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号機で火災が発生（16日5:45頃）。事業者は現場での火災は確認できず（16日6:15頃）。
- ・自衛隊が4号機の使用済燃料プールへ放水（20日9:43）
- ・ケーブル引き込みの現地調査（20日11:00～16:00）
- ・自衛隊が4号機の使用済燃料プールへ放水（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（21日06:37～08:41）
- ・パワーセンターまでのケーブル敷設工事完了（21日15:00頃）
- ・パワーセンター受電（22日10:35）
- ・コンクリートポンプ車（50 t / h）が約 150 t 放水（22 日 17:17～20:32）
- ・コンクリートポンプ車（50 t / h）が約 130 t 放水（23 日 10:00～13:02）
- ・コンクリートポンプ車（50 t / h）が約 150 t 放水（24 日 14:36～17:30）。

< 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。（19日4:22）
- ・5号機の残留熱除去系（RHR）ポンプ（C）（19日5:00）及び6号機の残留熱除去系（RHR）ポンプ（B）（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) (19日 5:00)
- ・ 5号機、冷温停止 (20日 14:30)
- ・ 6号機、冷温停止 (20日 19:27)
- ・ 5号機及び6号機、起動用変圧器まで受電 (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 (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 (22日 19:17)
- ・ 5号機の仮設の残留熱除去海水系 (RHR S) 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 (23日 17:24)。
- ・ 5号機の仮設のRHR Sポンプの修理が完了 (24日 16:14) し、冷却を再開 (24日 16:35)。

<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
- ・ 19日 9:00時点でのプール水温度は5.7℃程度
- ・ 共用プールに注水 (21日 10:37~15:30)
- ・ 21日 16:30時点でのプール水温度は6.1℃程度
- ・ 23日 13:15時点でのプール水温度は5.7℃程度
- ・ 電源供給を開始 (24日 15:37) し、冷却を開始 (24日 18:05)。
- ・ 24日 18:40時点でのプール水温度は7.3℃程度

○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 (24日 18:00 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	0.11	0.14
原子炉水温	℃	30.2	28.6	34.3	29.6
原子炉水位* ²	mm	9196	10296	8470	8785

原子炉格納容器内 サブレーションプール水温	℃	25	25	27	28
原子炉格納容器内 サブレーションプール圧力	kPa (abs)	108	107	104	105
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

MP2付近 (敷地最北敷地境界) :

約 $1.2 \mu\text{Sv/h}$ (23日 16:00) → 約 $1.1 \mu\text{Sv/h}$ (24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 (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24日 19:30 現在)

・ 東北電力 (3月24日 18:00 現在)

停電戸数 : 約 21万戸 (延べ停電戸数 約 486万戸)

停電地域 : 青森県 三八の一部地域 (約 4百戸)

岩手県 一部地域 (約 3万6千戸)

宮城県 一部地域 (約 13万1千戸)

福島県 一部地域 (約 3万8千戸)

・東京電力

停電は3月19日01:00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）

○一般ガス（3月24日19:30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08:00 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。

- ・仙台市営ガス 358,779 戸供給停止
- ・塩釜ガス（塩釜市）9,665 戸供給停止
- ・東部ガス（土浦市）1,664 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）11,832 戸供給停止
- ・京葉ガス（浦安市）4,259 戸供給停止
- ・東北ガス（白河市）125 戸供給停止
- ・常磐都市ガス（いわき市）362 戸供給停止
- ・気仙沼市営ガス（気仙沼市）2,800 戸供給停止
- ・石巻ガス（石巻市）14,771 戸供給停止

○簡易ガス（3月24日19:30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
- ・富岡ガス協業組合（双葉郡富岡町）428 戸供給停止
- ・釜石瓦斯（釜石市）1,357 戸供給停止
- ・仙台市ガス局（名取市）1,225 戸供給停止

- (仙台市) 559 戸供給停止
- (岩沼市) 342 戸供給停止
- ・仙台プロパン (登米市) 93 戸供給停止
 - (亶理郡山元町) 360 戸供給停止
 - (東松島市) 150 戸供給停止
- ・仙南ガス (白石市) 409 戸供給停止
 - (岩沼市) 252 戸供給停止
 - (柴田郡柴田町) 1,806 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
 - (東松島市矢本町) 243 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
- ・トーホクガス (多賀城市) 130 戸供給停止
- ・三重商会 (大船渡市) 81 戸供給停止
- ・八木又商店 (大船渡市) 105 戸供給停止
- ・名取岩沼農業協同組合 (岩沼市) 586 戸供給停止
- ・ガス&ライフ (東松島市) 859 戸供給停止
- ・仙台エルピーガス (仙台市) 3,594 戸供給停止

○熱供給 (3月24日 19:30 現在)

- ・小名浜配湯 (いわき市小名浜) 供給停止

○LPGガス (3月24日 19:30 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
- 13日午前中 共同住宅でガス爆発

○コンビナート (3月24日 19:30 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。

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】

- 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
- 9 : 38 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15条通報
- 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 : 40 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
- 5 : 38 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 : 52 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。
- 13 : 25 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。
- 22 : 13 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10条通
報
- 22 : 35 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15日】

- 0 : 00 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 : 00 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 : 21 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 : 24 （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 : 44 （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 : 54 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 : 30 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 : 59 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。

- 11:00 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退避を指示
- 16:30 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
- 22:00 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。

<被ばくの可能性(3月24日19:30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

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 10 km 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。

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、3 月 24 日午前の時点で、14 名（全員東電社員）であり、更に、本日福島第一原子力発電所 3 号機タービン建屋において、ケーブル敷設作業を行っていた作業員 3 名（全員協力社員）について、170mSv 以上の線量を確認しことから、あわせると 100mSv を超過した作業員は 17 名となっている。

3. 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 14ヶ所（常設）で実施中。3 月 21 日までに 75,429 人に対し実施。そのうち、100,000cpm 以上の値を示した者は 97 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) 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。
- (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。

<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、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。
- (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、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24日19:30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号機の爆発による負傷
 - ・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17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24日19:30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。

<飲食物への指示>

3月21日、原子力災害対策本部長から、下記の①、②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。

- ①福島県、茨城県、栃木県及び群馬県において産出されたハウレンソウ及びカキナ
- ②福島県において産出された原乳

<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、飯館村）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：吉澤、金城

電話：03-3501-1505

03-3501-5890

【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 福島県楢葉町、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

3月24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キロ)
- ②体育館付近(MP-5東側)(2号機より西北西約0.9キロ)
- ③西門付近(MP-5付近)(2号機より西約1.1キロ)
- ④正門付近前(MP-6付近)(2号機より西南西約1.0キロ)
- ⑤免震棟前(2号機より北西約0.5キロ)

測定場所	④																							
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	3:50
測定値(μSv/h)	222.3	222.0	221.8	221.5	221.7	221.0	220.6	220.4	220.0	219.7	219.2	219.2	218.9	218.7	217.5	217.2	216.8	216.6	216.6	216.5	216.2	215.5	215.7	215.4
中性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
風向	北西	南	北	西	西北西	西北西	西北西	西北西	北西	北	北西	西	西北西	西北西	西北西	西	西南西	西	西南西	南西	南西	西	西	西
風速(m/s)	0.3	0.4	0.5	1.2	1.3	1.4	1.6	1.6	1.3	0.8	0.6	0.8	1.3	1.7	1.6	1.2	1.0	0.5	1.0	0.9	0.6	0.7	0.9	1.0

測定場所	④																							
モニタリングカー	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
測定値(μSv/h)	215.1	215.0	214.7	214.5	214.7	214.3	214.4	214.0	213.6	213.8	216.2	213.6	212.8	212.8	214.7	230.9	213.7	212.3	212.2	212.0	211.8	211.9	211.9	211.7
中性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
風向	西北西	北	南	北	北北西	西	南東	南南東	南	東南東	南西	西	北	北	南南東	東南東	西南西	西北西	北西	西	西	南東	南	南
風速(m/s)	0.5	0.6	0.3	0.2	1.2	1.2	0.9	0.7	0.6	0.8	0.8	0.7	0.4	0.7	0.5	0.8	0.7	0.7	0.9	1.1	0.8	1.2	1.0	0.6

測定場所	④																								
モニタリングカー	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	
測定値(μSv/h)	211.6	211.6	211.6	211.2	211.5	211.1	210.7	210.8	210.8	210.7	210.6	210.5	210.1	210.0	209.7	209.7	209.5	209.6	209.3	209.2	209.5	209.5	209.6	209.1	
中性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	
風向	南西	南	南	南東	南東	南東	南東	東南東	南東	東南東	南南東	南東	南東	南東	南東	南南東	東南東	南東	南東	南	南	東南東	南	東南東	南南東
風速(m/s)	0.8	1.2	1.2	1.7	1.7	1.5	1.8	2.5	2.2	2.5	2.3	2.2	2.6	2.7	2.4	2.7	2.4	2.8	2.5	2.8	2.7	2.5	2.7	2.9	

測定場所	④												⑤			④								
モニタリングカー	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	14:50	15:00	15:10	15:20	15:30	15:40	15:50	
測定値(μSv/h)	209.4	209.4	209.2	201.1	208.8	208.7	208.1	207.9	207.5	207.5	207.2	209.3	209.0	208.5	429.5	427.0	210.0	209.8	209.4	209.2	208.8	208.0	207.6	
中性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	
風向	南	南東	南東	南	南	東南東	南東	南	南	南東	南	南東	南東	南東	南	南	南	南東	南東	南	南	南	南	
風速(m/s)	3.0	3.0	2.8	2.5	3.1	3.2	3.1	3.7	3.7	3.1	4.2	3.1	4.1	4.0	2.3	1.4	5.8	4.5	4.4	4.3	4.3	3.8	4.3	

④→⑤→④ 免震棟前(2号機より北西約0.5キロ) ※ダスト分析のため一時的に移動

測定場所	④																							
モニタリングカー	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
測定値(μSv/h)	207.4	207.3	207.1	207.0	206.9	206.5	206.4	206.3	206.1	206.0	205.6	205.3	204.6	204.9	204.7	204.5	204.4	204.4	204.3					
中性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D					
風向	南東	南	南	南	南	南東	南東	南	南西	南	南	南	南	南南東	西	西南西	西	西	西南西					
風速(m/s)	4.5	4.0	3.6	4.3	3.2	2.5	1.8	1.7	1.3	1.3	1.7	1.4	1.3	1.0	0.5	0.6	0.6	0.8	1.0					

3月23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)

測定場所	④																							
ニタリノカー	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	3:50
測定値($\mu\text{Sv/h}$)	233.4	233.3	232.3	231.6	230.1	229.4	227.5	227.4	227.2	226.8	226.8	226.7	226.7	226.9	227.1	227.1	227.2	227.3	227.6	228.5	228.7	228.8	228.8	229.0
H性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
風向	北西	北西	北北西	西	北西	北東	北	北東	北北西	北北西	北北西	北	北	北	北	北	北	北	北	北	北	北	北	北
風速(m/s)	1.8	1.8	2.6	4.3	2.5	5.5	2.4	6.5	6.0	4.2	3.4	3.3	3.2	2.8	2.8	2.9	3.0	3.1	2.9	2.2	2.3	2.3	2.6	2.2

測定場所	④																							
ニタリノカー	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
測定値($\mu\text{Sv/h}$)	229.1	229.1	229.4	229.3	229.5	229.5	229.5	229.3	229.6	229.5	229.5	229.7	229.6	229.4	229.4	229.6	229.5	229.5	229.3	229.5	229.3	229.5	229.0	229.3
H性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
風向	北	北西	北北西	北西	北北西	北	北	北	北北西	北西	北北西	北西	北北西	北西	北北西	北西	北北西	北西	北北西	北北西	北北西	北北西	北	北
風速(m/s)	2.1	2.1	2.4	1.7	1.8	2.1	2.1	1.8	2.2	2.1	2.2	2.4	2.5	2.5	2.6	2.7	2.4	2.1	2.7	2.4	2.6	2.8	3.0	2.5

測定場所	④																							
ニタリノカー	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
測定値($\mu\text{Sv/h}$)	229.4	229.5	229.2	229.4	229.1	229.1	229.1	228.7	227.6	226.9	228.6	227.6	211.4	227.7	227.2	227.3	227.1	227.2	227.0	226.8	225.8	226.3	225.7	226.3
H性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
風向	北	北	北北西	北北西	北北西	北北西	北	北北東	北	北	北北東	北北東	北	北	北北東	北	北北西	北	北北西	北	北北東	北北東	北	北
風速(m/s)	3.1	3.2	3.5	3.9	4.4	3.1	3.5	3.3	2.9	3.4	2.5	3.1	2.6	2.7	3.1	2.9	2.9	3.1	3.0	2.6	2.5	2.1	2.2	1.5

測定場所	④																							
ニタリノカー	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
測定値($\mu\text{Sv/h}$)	225.2	226.0	224.8	224.9	224.7	224.8	225.4	224.8	225.7	224.1	223.7	222.7	222.4	231.1	435.0	288.7	309.7	267.8	265.4	396.0	415.6	414.7	401.6	318.4
H性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
風向	北北西	北北東	西	西	西北西	東	東	東南東	北	北	北東	北西	北	北東	東南東	東	東南東	東南東	北東	北	東	東南東	東南東	東南東
風速(m/s)	1.6	2.6	1.6	1.6	1.5	1.4	1.2	1.9	2.0	1.5	1.3	1.2	1.4	1.0	1.6	0.9	1.6	1.7	1.6	1.5	1.3	1.0	1.1	0.7

測定場所	④																							
ニタリノカー	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
測定値($\mu\text{Sv/h}$)	331.5	313.4	280.9	283.7	274.4	269.3	265.1	262.1	259.5	257.0	255.8	254.2	253.0	251.3	241.2	249.0	246.9	245.8	244.6	243.5	242.1	241.0	240.2	237.6
H性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
風向	東	南	南東	南南西	南南東	南西	北	東	北北西	北西	西	西北西	北西	北北西	北	北西	北北西	北東	北	北	北	北	北北東	西
風速(m/s)	0.9	0.9	1.3	1.0	0.8	0.9	0.5	0.6	2.1	2.2	2.7	2.0	1.5	0.9	2.3	2.1	2.3	1.7	1.2	1.4	0.8	0.4	0.4	0.8

測定場所	④																							
ニタリノカー	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
測定値($\mu\text{Sv/h}$)	236.5	235.8	235.3	234.3	233.2	232.8	232.3	231.5	230.6	230.2	229.5	228.8	228.3	227.3	226.8	226.5	225.8	225.4	224.9	224.7	224.3	224.0	223.0	223.0
H性子	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
風向	北北東	東	南西	南西	東	東	西南西	南東	南南東	南西	西	西南西	西	西	西	西	西	西	西	西	西	西	南西	南東
風速(m/s)	0.2	0.2	0.3	0.3	0.5	0.3	0.3	0.5	0.3	0.4	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.4

福島第一原子力発電所敷地内の線量率

免震棟前

$\mu\text{Sv/h}$

6000.0

5000.0

4000.0

3000.0

2000.0

1000.0

0.0

正門
付近前

正門
付近前

0:00 2:00 4:00 6:00 8:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 0:00 2:00 4:00 6:00 8:00 10:00 12:00 14:00 16:10 18:10

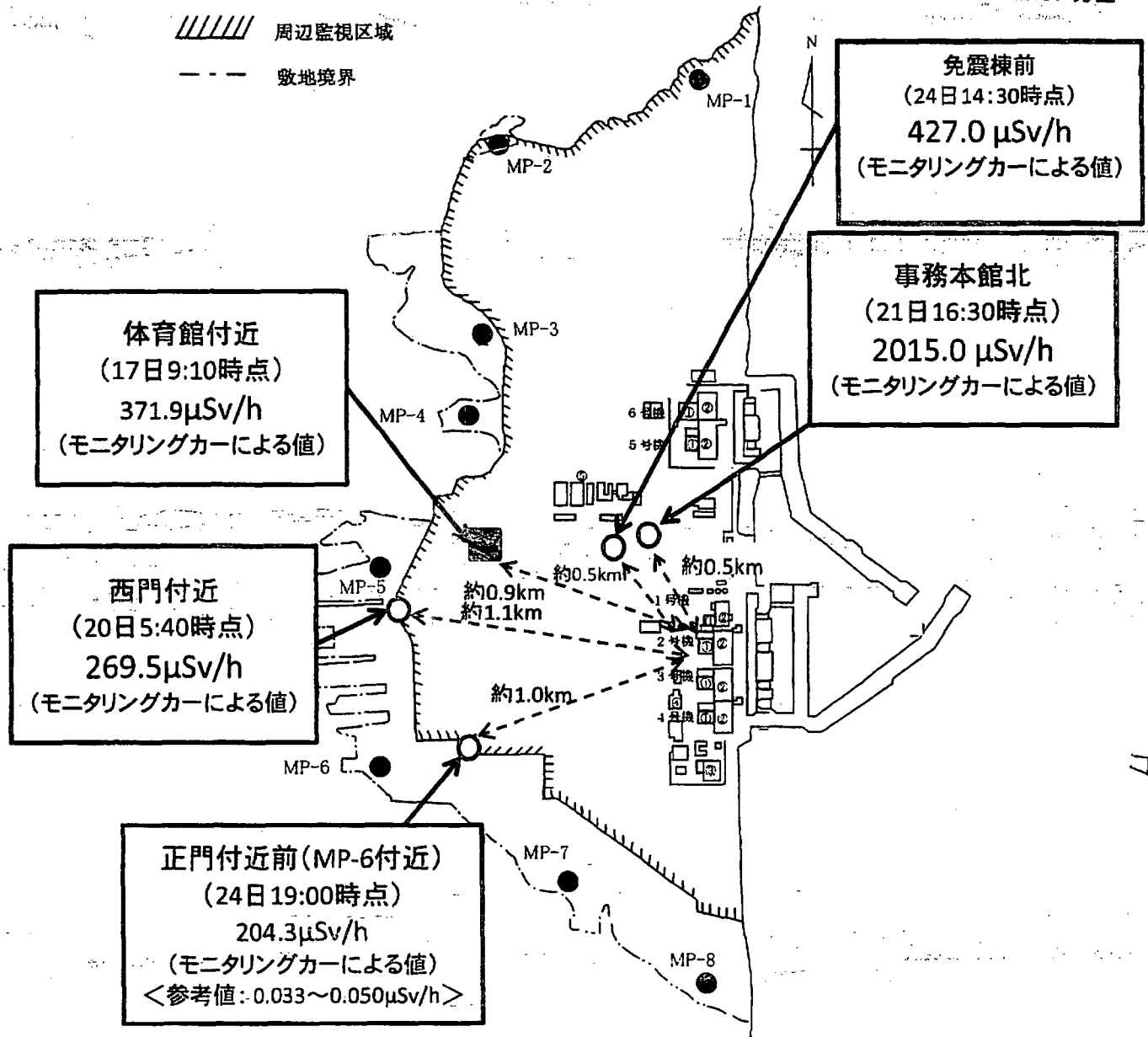
3月23日

3月24日

福島第一原子力発電所

2011/3/24
19:00現在

////// 周辺監視区域
- - - 敷地境界



4

第2(2F) (事業者のモニタリングポスト)

3月24日																								
モニタリングポスト	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	
MP1($\mu\text{Sv/h}$)	12.887	12.873	12.870	12.660	12.827	12.880	12.793	12.830	12.837	12.800	12.757	12.763	12.803	12.770	12.767	12.767	12.777	12.767	12.757	12.733	12.713	12.680	12.680	12.680
MP2($\mu\text{Sv/h}$)	7.603	7.593	7.587	7.587	7.597	7.583	7.573	7.570	7.567	7.560	7.577	7.530	7.547	7.533	7.510	7.557	7.543	7.487	7.517	7.520	7.510	7.480	7.510	7.510
MP3($\mu\text{Sv/h}$)	12.497	12.493	12.550	12.510	12.470	12.513	12.433	12.443	12.467	12.470	12.423	12.390	12.407	12.383	12.390	12.403	12.357	12.357	12.353	12.360	12.327	12.310	12.340	12.340
MP4($\mu\text{Sv/h}$)	9.737	9.723	9.723	9.717	9.697	9.720	9.693	9.677	9.683	9.693	9.660	9.653	9.660	9.657	9.647	9.640	9.617	9.640	9.613	9.653	9.573	9.577	9.560	9.560
MP5($\mu\text{Sv/h}$)	9.113	9.167	9.120	9.113	9.120	9.113	9.120	9.120	9.120	9.113	9.113	9.020	9.047	9.020	9.020	9.020	9.020	9.020	9.020	9.020	9.020	9.013	9.020	9.020
MP6($\mu\text{Sv/h}$)	10.337	10.343	10.277	10.287	10.273	10.280	10.280	10.270	10.257	10.257	10.263	10.257	10.253	10.263	10.280	10.240	10.233	10.243	10.230	10.203	10.217	10.213	10.217	10.217
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	欠測	欠測
風向	南南東	南南東	南南東	南南東	南南東	南南東	南南東	南南東	南南東	南	南南東	南南東	南南東	南	南南東	南南東	南南東	南	南	南	南	南	南	南
風速(m/s)	6.9	6.8	6.5	7.2	8.6	8.5	7.4	6.5	9.3	7.8	8.6	9.4	10.7	9.9	9.5	10.2	10.1	10.2	8.5	9.4	10.3	11.3	10.1	

3月24日																								
モニタリングポスト	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	
MP1($\mu\text{Sv/h}$)	12.663	12.700	12.663	12.673	12.630	12.620	12.573	12.583	12.573	12.557	12.577	12.557	12.533	12.510	12.553	12.547	12.567	12.533	12.543					
MP2($\mu\text{Sv/h}$)	7.480	7.457	7.443	7.487	7.453	7.430	7.440	7.457	7.433	7.437	7.433	7.417	7.400	7.393	7.383	7.383	7.390	7.403	7.377					
MP3($\mu\text{Sv/h}$)	12.337	12.277	12.287	12.293	12.290	12.280	12.263	12.203	12.227	12.203	12.270	12.167	12.220	12.153	12.183	12.133	12.177	12.130	12.167					
MP4($\mu\text{Sv/h}$)	9.590	9.567	9.563	9.553	9.553	9.553	9.530	9.543	9.560	9.533	9.550	9.500	9.530	9.513	9.530	9.503	9.527	9.467	9.443					
MP5($\mu\text{Sv/h}$)	8.993	8.920	8.940	8.920	8.953	8.913	8.920	8.920	8.920	8.920	8.913	8.920	8.867	8.920	8.920	8.880	8.873	8.873	8.853					
MP6($\mu\text{Sv/h}$)	10.143	10.177	10.160	10.143	10.137	10.143	10.123	10.103	10.120	10.093	10.117	10.143	10.127	10.090	10.100	10.067	10.073	10.087	10.057					
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					
風向	南	南	南	南	南	南	南	南	南	南	南南西	南南西	西南西	西南西	西南西	西南西	西南西	西南西	西南西	西				
風速(m/s)	9.4	8.3	6.3	4.8	6.4	4.1	7.2	7.5	7.8	5.8	2.6	1.5	1.6	4.1	4.2	4.2	3.9	4.4	4.0					

島第二(2F) (事業者のモニタリングポスト)

3月24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	
AP1(μ Sv/h)	13.693	13.730	13.647	13.653	13.610	13.613	13.583	13.630	13.580	13.600	13.527	13.540	13.540	13.473	13.480	13.513	13.497	13.487	13.473	13.427	13.393	13.410	13.417	13.417
AP2(μ Sv/h)	8.103	8.047	8.117	8.117	8.070	8.080	8.050	8.007	8.047	8.027	8.017	8.040	7.997	7.993	7.973	7.967	7.987	7.987	7.973	7.967	7.943	7.927	7.920	7.920
AP3(μ Sv/h)	13.350	13.320	13.300	13.323	13.287	13.257	13.257	13.207	13.230	13.217	13.257	13.177	13.160	13.127	13.097	13.143	13.103	13.107	13.123	13.120	13.087	13.017	13.073	13.073
AP4(μ Sv/h)	10.477	10.460	10.460	10.463	10.420	10.443	10.433	10.403	10.410	10.377	10.403	10.390	10.347	10.350	10.323	10.327	10.303	10.263	10.267	10.297	10.250	10.277	10.267	10.267
AP5(μ Sv/h)	9.827	9.800	9.800	9.800	9.800	9.800	9.700	9.800	9.747	9.700	9.700	9.693	9.720	9.700	9.700	9.700	9.680	9.600	9.653	9.607	9.600	9.600	9.607	9.607
AP6(μ Sv/h)	11.013	11.017	10.940	10.970	10.943	10.927	10.910	10.917	10.940	10.863	10.860	10.860	10.827	10.827	10.853	10.837	10.797	10.810	10.750	10.770	10.773	10.747	10.690	10.690
AP7(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	北西	西北西	北西	西北西	西北西	西北西	北西	北北西	北北西	北北西	北西	西北西	西北西	北西	北西	北西	北西	北西	北西	北西	北北西	北北西	北西	西
風速(m/s)	5.0	3.6	3.0	3.0	5.3	6.9	4.7	4.1	3.8	2.8	2.9	4.6	3.2	1.8	4.1	4.4	3.7	3.1	2.6	2.0	3.0	3.2	2.6	

3月24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	
AP1(μ Sv/h)	13.407	13.360	13.367	13.323	13.353	13.303	13.307	13.323	13.283	13.253	13.253	13.237	13.240	13.193	13.257	13.240	13.200	13.177	13.210	13.200	13.143	13.127	13.163	13.163
AP2(μ Sv/h)	7.913	7.897	7.883	7.880	7.900	7.873	7.860	7.837	7.837	7.833	7.827	7.790	7.823	7.810	7.843	7.803	7.757	7.807	7.777	7.793	7.770	7.777	7.763	7.763
AP3(μ Sv/h)	13.023	13.013	13.007	12.997	12.967	12.947	12.978	12.987	12.957	12.923	12.963	12.923	12.950	12.880	12.857	12.883	12.897	12.867	12.817	12.823	12.847	12.810	12.807	12.807
AP4(μ Sv/h)	10.230	10.230	10.227	10.230	10.170	10.187	10.190	10.153	10.133	10.193	10.143	10.133	10.100	10.127	10.093	10.110	10.100	10.053	10.053	10.037	10.050	10.050	10.040	10.040
AP5(μ Sv/h)	9.600	9.607	9.580	9.547	9.547	9.600	9.507	9.500	9.507	9.507	9.507	9.507	9.427	9.507	9.400	9.407	9.407	9.407	9.407	9.407	9.407	9.407	9.407	9.407
AP6(μ Sv/h)	10.717	10.727	10.687	10.677	10.680	10.650	10.667	10.640	10.650	10.630	10.603	10.603	10.617	10.610	10.560	10.587	10.560	10.560	10.527	10.540	10.553	10.523	10.510	10.510
AP7(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	北西	北西	北西	北	北西	西	北北西	南	南西	南西	南西	南南西	西南西	西	西北西	西北西	北	北北西	西	西	西	南南西	南西	南西
風速(m/s)	3.3	2.4	1.9	1.9	1.1	0.6	0.1	0.4	1.2	1.9	2.2	1.9	2.7	1.1	1.0	1.2	0.4	0.4	3.0	9.4	3.3	0.6	2.1	

3月24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
AP1(μ Sv/h)	13.127	13.137	13.137	13.093	13.080	13.073	13.067	13.087	13.060	13.047	12.980	12.990	12.967	13.000	12.957	12.997	12.973	12.957	12.983	12.940	12.930	12.903	12.930	12.930
AP2(μ Sv/h)	7.747	7.753	7.750	7.740	7.743	7.733	7.697	7.707	7.720	7.680	7.710	7.680	7.677	7.643	7.637	7.650	7.647	7.670	7.617	7.630	7.620	7.590	7.600	7.600
AP3(μ Sv/h)	12.810	12.737	12.773	12.730	12.710	12.723	12.707	12.693	12.670	12.660	12.653	12.650	12.667	12.620	12.617	12.613	12.627	12.577	12.527	12.547	12.570	12.567	12.540	12.540
AP4(μ Sv/h)	10.013	10.007	9.980	9.967	9.983	9.960	9.963	9.923	9.960	9.907	9.880	9.903	9.873	9.850	9.813	9.863	9.847	9.827	9.823	9.817	9.790	9.783	9.753	9.753
AP5(μ Sv/h)	9.407	9.313	9.380	9.313	9.320	9.313	9.313	9.313	9.313	9.313	9.260	9.267	9.287	9.267	8.647	8.820	9.167	9.213	9.213	9.180	9.147	9.173	9.147	9.147
AP6(μ Sv/h)	10.497	10.490	10.470	10.480	10.453	10.463	10.437	10.447	10.420	10.407	10.427	10.410	10.427	10.393	10.350	10.427	10.373	10.380	10.343	10.297	10.333	10.347	10.337	10.337
AP7(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	南南西	南南西	南	南東	南東	南東	南	南南東	南	南南東	南南東	南南東	南東	南東	南南東	南東	南南東	南南東	南南東	南南東	南南東	南南東	南南東
風速(m/s)	2.1	1.5	2.3	2.5	3.2	3.9	4.1	4.1	3.8	3.6	4.7	4.3	4.2	3.9	4.6	5.0	5.3	4.5	4.3	5.3	6.1	5.1	5.7	

島第二(2F)(事業者のモニタリングポスト)

3月23日																									
ニタリングポスト	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		
AP1($\mu\text{Sv/h}$)	15.023	14.927	14.853	14.873	15.750	20.500	17.983	20.920	17.483	17.703	17.797	17.530	17.373	17.117	16.940	16.823	16.710	16.590	16.517	16.447	16.133	16.013	15.907	15.810	
AP2($\mu\text{Sv/h}$)	8.987	8.927	8.900	8.990	9.303	11.683	10.363	12.877	9.973	10.347	10.447	10.313	10.077	9.867	9.800	9.720	9.697	9.613	9.570	9.910	9.357	9.317	9.240	9.160	
AP3($\mu\text{Sv/h}$)	15.070	15.007	14.930	14.987	15.350	17.373	16.193	17.070	16.417	16.213	16.297	16.117	16.047	15.883	16.010	15.663	15.630	15.617	15.513	15.763	15.167	15.083	15.050	14.960	
AP4($\mu\text{Sv/h}$)	11.590	11.550	11.513	11.633	11.950	12.763	12.863	13.457	12.787	12.677	12.847	12.803	12.650	12.523	12.497	12.357	12.320	12.307	12.320	12.373	12.050	11.957	11.860	11.770	
AP5($\mu\text{Sv/h}$)	10.973	10.973	10.880	10.913	11.140	12.053	12.287	12.300	12.127	11.853	12.147	12.093	12.000	11.853	11.760	11.660	11.660	11.660	11.660	11.660	11.393	11.213	11.167	11.070	
AP6($\mu\text{Sv/h}$)	11.943	11.873	11.870	11.867	12.090	12.903	14.307	14.193	13.990	13.533	13.860	13.837	13.637	13.510	13.370	13.247	13.173	13.187	13.083	12.963	12.843	12.727	12.613	12.510	
AP7($\mu\text{Sv/h}$)	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	欠測	欠測	
風向	北	北	北	北北西	北	北東	北北東	北北東	北北東	北北東	北東	北東	北東	北東	北北東	北北東	北東	東北東	東北東	東北東	北東	北東	北東	北北東	
風速(m/s)	6.0	6.2	4.7	3.1	2.5	2.5	4.7	4.4	3.8	5.7	8.6	7.6	7.2	6.6	5.9	3.6	3.2	3.5	2.9	4.0	5.0	4.1	4.4		

3月23日																									
ニタリングポスト	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		
AP1($\mu\text{Sv/h}$)	15.727	15.600	15.443	15.383	15.313	15.277	15.267	15.210	15.163	15.110	15.030	14.883	14.830	14.773	14.653	14.730	14.613	14.563	14.547	14.513	14.443	14.437	14.403	14.310	
AP2($\mu\text{Sv/h}$)	9.160	9.070	9.090	9.047	9.020	9.000	9.067	8.977	8.983	8.903	8.833	8.767	8.723	8.677	8.657	8.680	8.620	8.610	8.530	8.567	8.540	8.510	8.493	8.410	
AP3($\mu\text{Sv/h}$)	14.920	14.833	14.773	14.657	14.733	14.707	14.760	14.770	14.557	14.497	14.397	14.343	14.257	14.260	14.173	14.157	14.103	14.087	13.990	14.007	13.940	13.933	13.860	13.770	
AP4($\mu\text{Sv/h}$)	11.720	11.720	11.647	11.617	11.577	11.620	11.657	11.583	11.490	11.447	11.343	11.333	11.273	11.190	11.167	11.143	11.127	11.063	11.037	11.007	11.010	10.970	10.963	10.870	
AP5($\mu\text{Sv/h}$)	11.047	11.067	10.973	10.920	10.880	10.873	10.900	10.873	10.860	10.827	10.707	10.587	10.587	10.527	10.487	10.433	10.420	10.380	10.337	10.387	10.367	10.293	10.287	10.190	
AP6($\mu\text{Sv/h}$)	12.490	12.453	12.370	12.343	12.303	12.283	12.170	12.127	12.030	12.007	12.017	11.940	11.857	11.800	11.763	11.757	11.737	11.673	11.660	11.597	11.567	11.503	11.510	11.410	
AP7($\mu\text{Sv/h}$)	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	欠測	欠測	
風向	北東	北東	北北東	北東	北東	北北東	北北東	北	北	北北東	北北西	北	北北西	北北西	北北西	北北西	北北西	北北西	北北西	北北西	北北西	北北西	北北西	北北西	
風速(m/s)	2.1	2.5	4.1	2.0	1.6	0.7	0.9	0.4	0.5	2.3	2.6	5.5	6.9	6.1	5.8	6.1	5.2	5.2	4.2	5.8	6.0	4.2	3.6		

3月23日																									
ニタリングポスト	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		
AP1($\mu\text{Sv/h}$)	14.277	14.263	14.220	14.240	14.183	14.130	14.113	14.093	14.047	14.037	13.967	13.963	13.967	13.987	13.920	13.903	13.873	13.860	13.800	13.810	13.773	13.773	13.783	13.690	
AP2($\mu\text{Sv/h}$)	8.437	8.423	8.367	8.380	8.357	8.380	8.357	8.323	8.310	8.300	8.293	8.287	8.233	8.253	8.237	8.220	8.203	8.220	8.207	8.140	8.170	8.120	8.157	8.060	
AP3($\mu\text{Sv/h}$)	13.867	13.793	13.740	13.763	13.763	13.707	13.700	13.693	13.587	13.623	13.587	13.553	13.583	13.490	13.603	13.473	13.470	13.473	13.440	13.410	13.380	13.397	13.367	13.270	
AP4($\mu\text{Sv/h}$)	10.897	10.883	10.843	10.830	10.797	10.820	10.763	10.733	10.737	10.703	10.707	10.667	10.700	10.640	10.633	10.610	10.577	10.570	10.543	10.557	10.533	10.523	10.480	10.390	
AP5($\mu\text{Sv/h}$)	10.213	10.187	10.187	10.187	10.160	10.093	10.093	10.093	10.040	10.040	10.000	10.000	9.993	10.000	9.993	9.993	9.973	9.893	9.920	9.900	9.893	9.900	9.840	9.750	
AP6($\mu\text{Sv/h}$)	11.447	11.443	11.420	11.407	11.363	11.330	11.280	11.280	11.293	11.230	11.217	11.233	11.197	11.180	11.170	11.170	11.147	11.123	11.107	11.077	11.053	11.040	11.007	10.910	
AP7($\mu\text{Sv/h}$)	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	欠測	欠測	
風向	北西	北西	北西	北西	北西	北西	北西	北西	北西	北西	北北西	北北西	北北西	北北西	北西	北西	北北西	北西	北北西	北西	北北西	北西	北西	北北西	
風速(m/s)	5.0	6.6	8.5	8.3	7.5	6.1	6.7	6.9	5.5	4.0	3.3	4.7	6.5	7.2	6.1	6.4	6.6	6.5	6.7	7.1	4.7	7.0	6.4		

島第二(2F) (事業者のモニタリングポスト)

3月23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	
AP1(μSv/h)	16.337	16.260	16.067	16.060	15.887	15.700	15.660	15.570	15.537	15.470	15.393	15.410	15.290	15.243	15.180	15.190	15.103	15.083	15.000	14.953	14.953	14.953	14.907	14.860
AP2(μSv/h)	9.703	9.627	9.560	9.447	9.333	9.233	9.193	9.177	9.113	9.080	9.043	8.973	8.960	8.960	8.960	8.907	8.897	8.877	8.867	8.837	8.837	8.837	8.797	8.750
AP3(μSv/h)	15.347	15.200	15.130	15.047	14.967	14.833	14.790	14.803	14.737	14.650	14.603	14.570	14.540	14.500	14.490	14.517	14.477	14.433	14.383	14.350	14.350	14.350	14.310	14.263
AP4(μSv/h)	12.243	12.123	12.060	11.937	11.847	11.797	11.750	11.723	11.667	11.650	11.557	11.547	11.527	11.453	11.487	11.460	11.417	11.413	11.403	11.367	11.367	11.367	11.307	11.250
AP5(μSv/h)	11.467	11.367	11.267	11.167	11.040	10.973	10.880	10.873	10.873	10.780	10.760	10.680	10.680	10.680	10.680	10.680	10.673	10.627	10.593	10.580	10.580	10.580	10.580	10.533
AP6(μSv/h)	12.620	12.503	12.407	12.297	12.187	12.103	12.053	12.007	11.930	11.900	11.810	11.820	11.793	11.823	11.770	11.763	11.713	11.743	11.703	11.697	11.697	11.697	11.687	11.640
AP7(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	北北西	北西	北北西	北西	北西	北北西	北北西	北	北	北	北	北	北	北	北	北北西	北	北	北	北	北	北	北	北
風速(m/s)	2.7	3.9	5.0	4.8	4.4	4.3	4.5	5.7	6.6	8.2	8.2	7.4	9.1	8.6	9.9	8.4	9.7	9.0	9.9	7.7	7.7	7.7	8.6	9.5

3月23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	
AP1(μSv/h)	14.860	14.797	14.773	14.723	14.740	14.713	14.630	14.670	14.593	14.577	14.553	14.423	14.520	14.507	14.460	14.450	14.467	14.400	14.403	14.380	14.347	14.390	14.343	14.296
AP2(μSv/h)	8.813	8.787	8.790	8.803	8.773	8.737	8.740	8.713	8.723	8.700	8.683	8.680	8.640	8.657	8.653	8.643	8.620	8.603	8.593	8.570	8.603	8.570	8.570	8.523
AP3(μSv/h)	14.293	14.317	14.250	14.260	14.260	14.213	14.227	14.223	14.170	14.117	14.173	14.167	14.123	14.133	14.093	14.080	14.060	14.027	14.057	14.053	13.987	14.007	14.017	13.970
AP4(μSv/h)	11.313	11.313	11.273	11.253	11.260	11.263	11.237	11.220	11.193	11.193	11.197	11.153	11.173	11.170	11.133	11.153	11.127	11.130	11.113	11.080	11.097	11.117	11.050	11.003
AP5(μSv/h)	10.587	10.587	10.587	10.587	10.480	10.520	10.480	10.480	10.480	10.480	10.487	10.480	10.433	10.480	10.480	10.427	10.387	10.407	10.380	10.387	10.387	10.387	10.380	10.333
AP6(μSv/h)	11.630	11.643	11.620	11.600	11.623	11.597	11.580	11.550	11.607	11.580	11.533	11.577	11.567	11.510	11.487	11.497	11.480	11.487	11.480	11.480	11.450	11.423	11.417	11.370
AP7(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	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北	北
風速(m/s)	8.6	8.5	8.0	7.8	8.3	7.7	7.5	7.1	7.6	7.5	8.7	8.6	8.2	8.7	9.1	8.5	9.9	8.9	9.6	8.6	8.6	8.0	9.4	10.3

3月23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
AP1(μSv/h)	14.307	15.697	16.200	19.693	17.380	17.463	16.780	16.483	16.347	16.143	16.010	15.917	15.783	15.657	15.590	15.533	15.453	15.407	15.323	15.187	15.380	15.260	15.133	15.086
AP2(μSv/h)	8.573	8.923	9.273	11.147	10.563	10.817	9.570	9.350	9.277	9.197	9.190	9.097	9.057	9.067	9.067	9.027	8.983	8.943	8.903	8.917	9.307	9.120	9.077	8.950
AP3(μSv/h)	13.953	13.980	14.407	15.590	17.423	18.627	17.130	16.520	16.220	16.110	15.933	15.813	15.693	15.613	15.510	15.453	15.397	15.447	15.227	15.357	15.853	15.540	15.277	15.150
AP4(μSv/h)	11.060	11.077	11.377	13.130	13.253	13.147	12.330	12.273	12.070	12.013	11.920	11.873	11.780	11.750	11.770	11.667	11.737	11.787	11.657	11.693	11.933	12.607	11.713	11.586
AP5(μSv/h)	10.380	10.380	10.613	13.813	12.420	12.147	11.567	11.620	11.367	11.367	11.213	11.167	11.153	11.113	11.073	11.073	11.053	11.173	10.920	11.220	11.287	11.713	11.153	11.026
AP6(μSv/h)	11.443	11.463	12.017	14.217	13.800	12.843	12.550	12.540	12.447	12.383	12.273	12.233	12.183	12.117	12.127	12.083	12.073	11.997	11.940	11.970	12.023	12.107	11.987	11.860
AP7(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	北	北	北	北	北	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東	北北東
風速(m/s)	7.7	8.1	7.9	7.4	7.2	7.7	9.0	8.9	10.2	10.3	8.2	8.2	9.2	10.1	7.5	7.0	7.7	8.0	7.4	7.1	8.6	6.0	5.4	6.3

福島第二原子力発電所

2011/3/24
19:00現在

MP1: 12.543 μ Sv/h
(参考値: 0.035~0.054 μ Sv/h)

MP2: 7.377 μ Sv/h
(参考値: 0.042~0.062 μ Sv/h)

MP3: 12.167 μ Sv/h
(参考値: 0.036~0.052 μ Sv/h)

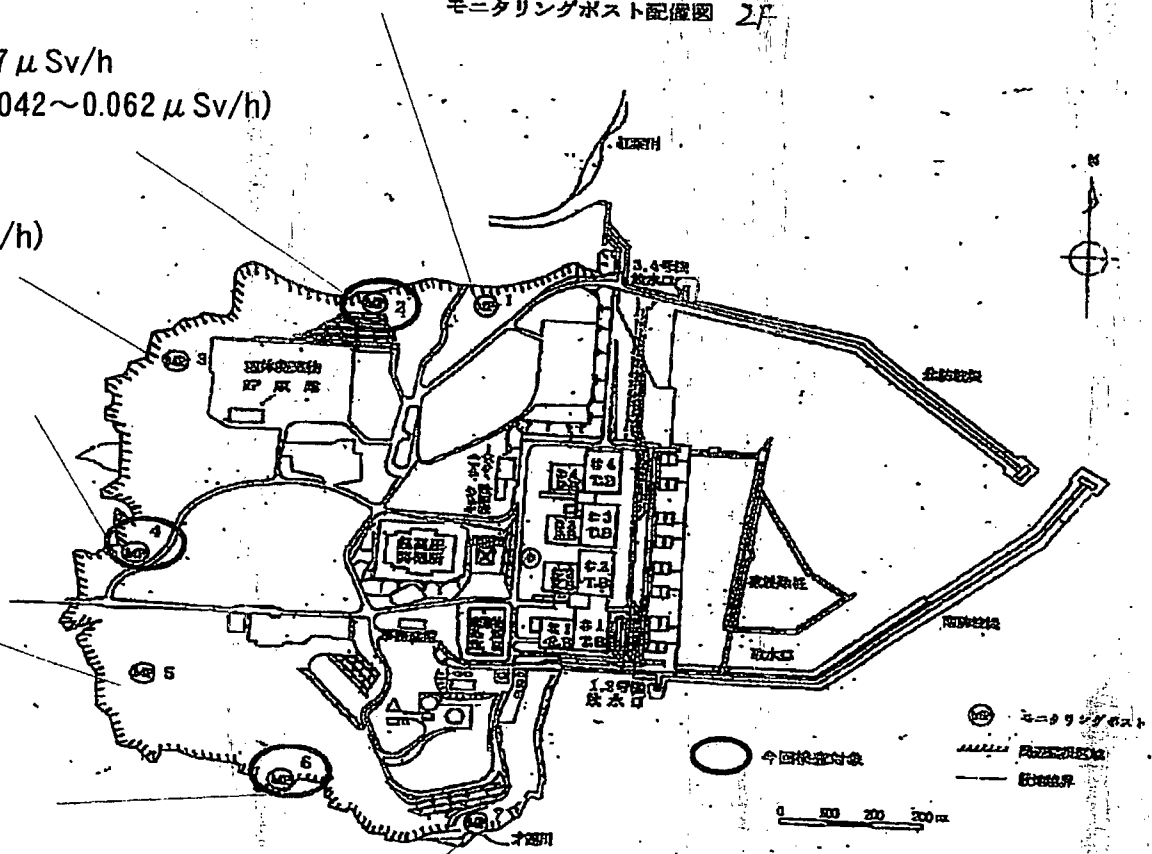
MP4: 9.443 μ Sv/h
(参考値: 0.036~0.052 μ Sv/h)

MP5: 8.853 μ Sv/h
(参考値: 0.041~0.058 μ Sv/h)

MP6: 10.057 μ Sv/h
(参考値: 0.044~0.063 μ Sv/h)

MP7: 欠測
(参考値: 0.043~0.062 μ Sv/h)

モニタリングポスト配備図 2F



添付資料 (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23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	0.028	0.026	0.026	0.026	0.025	0.024	0.025	0.026	0.026	0.030	0.027	0.027
0.024~0.060	東北電力㈱	女川原子力発電所	1.30	1.30	1.30	1.30	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
0.012~0.060		東通原子力発電所	0.021	0.019	0.019	0.018	0.018	0.018	0.018	0.018	0.017	0.017	0.018	
0.033~0.050	東京電力㈱	福島第一原子力発電所*	225.2	225.4	222.4	265.4	331.5	265.1	253	244.6	236.5	232.3	228.3	224.9
0.036~0.052		福島第二原子力発電所	15.070	16.193	16.047	15.513	14.920	14.760	14.257	13.990	13.867	13.700	13.583	13.440
0.011~0.159		柏崎刈羽原子力発電所	0.064	0.065	0.064	0.065	0.065	0.065	0.066	0.064	0.064	0.064	0.066	0.065
0.036~0.053	日本原子力発電㈱	東海第二発電所	1.149	1.113	1.123	1.109	1.085	1.076	1.055	1.037	1.034	1.031	1.022	1.017
0.039~0.110		敦賀発電所	0.073	0.073	0.072	0.073	0.073	0.072	0.072	0.073	0.073	0.074	0.073	0.072
0.064~0.108	中部電力㈱	浜岡原子力発電所	0.085	0.084	0.084	0.084	0.084	0.084	0.083	0.084	0.084	0.084	0.084	
0.0207~0.132	北陸電力㈱	志賀原子力発電所	0.032	0.032	0.032	0.032	0.032	0.033	0.032	0.033	0.032	0.032	0.032	
0.028~0.130	中国電力㈱	島根原子力発電所	0.030	0.030	0.030	0.031	0.031	0.029	0.029	0.029	0.030	0.030	0.030	
0.070~0.077		美浜発電所	0.073	0.072	0.071	0.071	0.074	0.071	0.072	0.073	0.073	0.072	0.071	
0.045~0.047	関西電力㈱	高浜発電所	0.042	0.043	0.043	0.042	0.043	0.042	0.043	0.043	0.042	0.042	0.043	
0.036~0.040		大飯発電所	0.000	0.000	0.000	0.000	0.000	0.000	0.034	0.035	0.033	0.034	0.035	
0.011~0.080	四国電力㈱	伊方発電所	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.014	0.014	0.014	
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	0.025	0.026	0.026	0.026	0.026	0.026	
0.034~0.120		川内原子力発電所	0.037	0.038	0.038	0.038	0.037	0.039	0.034	0.036	0.039	0.039	0.038	
0.009~0.069	日本原燃(株)	六ヶ所 再処理事業所	0.018	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.020	
0.009~0.071		六ヶ所 埋設事業所	0.022	0.021	0.020	0.020	0.019	0.020	0.020	0.020	0.020	0.020	0.033	

*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24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	0.033	0.028	0.027	0.031	0.028	0.027	0.026	0.026	0.026	0.025		
0.024~0.060	東北電力㈱	女川原子力発電所	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20		
0.012~0.060		東通原子力発電所	0.018	0.018	0.020	0.022	0.021	0.026	0.023	0.019	0.018	0.019		
0.033~0.050	東京電力㈱	福島第一原子力発電所*	222.3	220.6	218.9	216.6	215.1	214.4	212.8	212.2	211.6	210.1		
0.036~0.052		福島第二原子力発電所	13.360	13.257	13.160	13.123	13.023	12.978	12.950	12.817	12.810	12.707		
0.011~0.159		柏崎刈羽原子力発電所	0.066	0.065	0.066	0.065	0.066	0.066	0.065	0.065	0.065	0.066		
0.036~0.053	日本原子力発電㈱	東海第二発電所	1.007	1.006	1.003	0.996	0.990	0.989	0.990	0.983	0.983	0.978		
0.039~0.110		敦賀発電所	0.074	0.073	0.074	0.074	0.074	0.074	0.074	0.075	0.085	0.077		
0.064~0.108	中部電力㈱	浜岡原子力発電所	0.084	0.084	0.084	0.084	0.085	0.084	0.085	0.085	0.084	0.084		
0.0207~0.132	北陸電力㈱	志賀原子力発電所	0.032	0.032	0.032	0.032	0.033	0.033	0.033	0.041	0.042	0.037		
0.028~0.130	中国電力㈱	島根原子力発電所	0.031	0.030	0.030	0.030	0.030	0.030	0.030	0.033	0.032	0.030		
0.070~0.077		美浜発電所	0.072	0.073	0.073	0.072	0.073	0.073	0.074	0.073	0.074	0.073		
0.045~0.047	関西電力㈱	高浜発電所	0.043	0.043	0.042	0.043	0.043	0.043	0.042	0.043	0.043	0.044		
0.036~0.040		大飯発電所	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.036	0.037	0.036		
0.011~0.080	四国電力㈱	伊方発電所	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.014	0.014		
0.023~0.087	九州電力㈱	玄海原子力発電所	0.026	0.025	0.026	0.027	0.026	0.026	0.027	0.026	0.027	0.025		
0.034~0.120		川内原子力発電所	0.036	0.037	0.037	0.040	0.037	0.039	0.038	0.037	0.039	0.037		
0.009~0.069	日本原燃(株)	六ヶ所 再処理事業所	0.018	0.018	0.017	0.020	0.023	0.017	0.016	0.016	0.016	0.016		
0.009~0.071		六ヶ所 埋設事業所	0.022	0.021	0.020	0.023	0.025	0.021	0.020	0.020	0.020	0.020		

*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。

東京電力福島第一原子力発電所敷地内の核種分析結果

採取方法:モニタリングカーにてダスト採取

測定方法:試料を2Fに持ち込みGe半導体型核種分析装置にて分析(1日1回測定)

測定時間:500秒

核種	3月19日 事務本館北側 採取時間(11:53~12:13)*放水前 測定時間(14:12~)			3月20日 事務本館北側 採取時間(1:41~2:01) 測定時間(13:28~)			3月21日 事務本館北側 採取時間(10:19~10:39) 測定時間(13:28~)			③放射線業務 従事者の呼吸 する空気中の 濃度限度 (Bq/cm ³)※	
	①放射能濃度 (Bq/cm ³)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	空气中濃度 限度に対す る割合 (①/③)		
	揮発性	I-131	5.940E-03	3.374E-05	5.94	2.303E-03	1.256E-05	2.30	1.516E-03		1.134E-05
	I-132	2.203E-03	8.816E-05	0.03	N.D	/	/	2.539E-04	2.702E-05	0.00	7.0E-02
	I-133	3.773E-05	2.861E-05	0.01	N.D	/	/	N.D	/	/	5.0E-03
粒子状	Cs-134	2.165E-05	1.692E-05	0.01	2.840E-05	4.755E-06	0.01	3.383E-05	5.364E-06	0.02	2.0E-03
	Cs-136	N.D	/	/	5.629E-06	5.447E-06	0.001	4.529E-06	3.321E-06	0.0005	1.0E-02
	Cs-137	2.437E-05	1.771E-05	0.01	2.892E-05	5.003E-06	0.01	3.801E-05	4.671E-06	0.01	3.0E-03

核種	3月22日 正門 採取時間(1:10~1:30) 測定時間(14:50~)			3月23日 正門 採取時間(2:01~2:21) 測定時間(14:54~)			3月24日 正門 採取時間(2:01~2:21) 測定時間(14:54~)			③放射線業務 従事者の呼吸 する空気中の 濃度限度 (Bq/cm ³)※	
	①放射能濃度 (Bq/cm ³)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	空气中濃度 限度に対す る割合 (①/③)		
	揮発性	I-131	2.2E-03	1.569E-05	2.24	6.7E-04	9.6E-06	0.67	/		/
	I-132	N.D	/	/	3.0E-04	8.8E-06	0.00	/	/	/	7.0E-02
	I-133	N.D	/	/	N.D	/	/	/	/	/	5.0E-03
粒子状	Co-58	N.D	/	/	5.1E-06	5.1E-06	0.00	/	/	/	1.0E-02
	Cs-134	1.591E-05	5.853E-06	0.01	1.7E-05	4.2E-06	0.01	/	/	/	2.0E-03
	Cs-136	N.D	/	/	3.0E-06	2.7E-06	0.00	/	/	/	1.0E-02
	Cs-137	1.889E-05	5.295E-06	0.01	1.3E-05	4.2E-06	0.00	/	/	/	3.0E-03
その他	Te-129	N.D	/	/	2.3E-01	1.2E-01	0.58	/	/	/	4.0E-01
	Te-132	6.680E-05	1.116E-05	0.01	4.3E-04	4.5E-06	0.06	/	/	/	7.0E-03
	Ce-144	6.680E-05	1.116E-05	0.10	1.3E-03	3.7E-04	1.86	/	/	/	7.0E-04

※人が呼吸する空気中の放射性核種の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

採取方法:海水を汲みあげ採取

測定方法:試料500mlを福島第三に運搬し、Ge半導体検出器で測定

測定時間:1,000秒

核種	3月21日 14:30			3月22日 6:30			3月23日 8:50			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)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	水中濃度限 度に対する 割合 (①/③)	
Co-58	5.955E-02	3.349E-02	0.1	1.668E-02	2.138E-02	0.0	5.0E-02	2.6E-02	-	1E+00
I-131	5.066E+00	4.245E-02	126.7	1.190E+00	2.293E-02	29.8	5.9E+00	3.6E-02	146.9	4E-02
I-132	2.136E+00	1.925E-01	0.7	1.362E+00	7.721E-02	0.5	5.4E+00	1.4E-01	1.8	3E+00
Cs-134	1.486E+00	4.030E-02	24.8	1.504E-01	1.769E-02	2.5	2.5E-01	2.7E-02	4.2	6E-02
Cs-136	2.132E-01	2.358E-02	0.7	2.350E-02	1.056E-02	0.1	2.5E-02	2.4E-02	0.1	3E-01
Cs-137	1.484E+00	4.204E-02	16.5	1.535E-01	1.626E-02	1.7	2.5E-01	2.7E-02	2.8	9E-02
Zr-95							2.3E-01	7.8E-02	0.3	9E-01
Ru-105							6.7E-01	6.2E-01	0.3	3E+00
Ru-106							3.7E-01	2.0E-01	3.7	1E-01
Te-129							4.0E+00	3.9E+00	0.4	1E+01
Te-132							4.0E+01	3.6E-02	200.5	2E-01
La-140							1.3E-02	1.0E-02	0.0	4E-01

核種	3月23日 9:10									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)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	水中濃度限 度に対する 割合 (①/③)	
Co-58	5.000E-02	3.100E-02	0.1							1E+00
I-131	2.700E+00	2.500E-02	66.6							4E-02
I-132	2.900E+00	7.700E-02	1.0							3E+00
Cs-134	1.800E+00	2.400E-02	29.9							6E-02
Cs-136	2.300E-01	2.500E-02	0.8							3E-01
Cs-137	1.900E+00	2.400E-02	21.4							9E-02
Tc-99m	8.300E-02	2.500E-02	0.0							4E+01
Te-129	7.300E+00	3.800E+00	0.7							1E+01
Te-129m	1.300E+00	6.100E-01	4.2							3E-01
Te-132	1.600E+00	2.100E-02	7.8							2E-01
Ba-140	1.300E-01	9.400E-02	0.4							3E-01
La-140	5.500E-02	1.200E-02	0.1							4E-01

東京電力福島第二原子力発電所敷地内の核種分析結果

採取方法: モニタリングカーにてダスト採取

測定方法: 試料を2Fに持ち込みGe半導体型核種分析装置にて分析(1日2回測定)

核種	3月16日 情報棟東側			3月16日 免震建屋1階入口			3月17日 MP-1			③放射線業務 従事者の呼吸 する空気中の 濃度限度 (Bq/cm ³)※	
	採取時間(7:56~8:06)			採取時間(10:00~10:10)			採取時間(13:50~14:00)				
	測定時間(8:47~)			測定時間(11:59~)			測定時間(22:01~)				
	500秒			500秒			1000秒				
	①放射能濃度 (Bq/cm ³)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	空气中濃度 限度に対す る割合 (①/③)		
揮発性	I-131	3.432E-04	2.559E-05	0.34	6.889E-04	1.268E-05	0.69	9.432E-05	3.351E-06	0.09	1.0E-03
	I-132	1.149E-03	2.812E-05	0.02	7.528E-04	1.986E-05	0.01	N.D			7.0E-02
	I-133	3.448E-05	2.687E-05	0.01	4.395E-05	1.497E-05	0.01	3.304E-06	4.478E-06	0.00	5.0E-03
粒子状	Co-58	N.D			4.943E-05	2.685E-05	0.00	2.494E-05	2.061E-05	0.00	1.0E-02
	Cs-134	1.237E-04	1.449E-05	0.06	4.163E-04	2.459E-05	0.21	3.314E-04	1.680E-05	0.17	2.0E-03
	Cs-136	2.699E-05	9.412E-06	0.00	7.504E-05	1.495E-05	0.01	6.107E-05	1.236E-05	0.01	1.0E-02
	Cs-137	1.227E-04	1.311E-05	0.04	3.861E-04	2.057E-05	0.13	3.232E-04	1.702E-05	0.11	3.0E-03

核種	3月18日 MP-1			3月18日 MP-1			3月19日 MP-1			③放射線業務 従事者の呼吸 する空気中の 濃度限度 (Bq/cm ³)※	
	採取時間(8:22~8:32)			採取時間(15:09~15:19)			採取時間(9:15~9:25)				
	測定時間(9:40~)			測定時間(17:12~)			測定時間(10:39~)				
	1000秒			1000秒			1000秒				
	①放射能濃度 (Bq/cm ³)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	空气中濃度 限度に対す る割合 (①/③)		
揮発性	I-131	8.630E-04	3.145E-05	0.86	4.298E-03	4.993E-05	4.30	2.695E-04	5.585E-05	0.27	1.0E-03
	I-132	1.720E-03	3.821E-05	0.02	2.625E-03	9.359E-05	0.04	N.D			7.0E-02
	I-133	N.D			5.246E-05	4.213E-05	0.01	N.D			5.0E-03
粒子状	Co-58	3.080E-05	2.048E-05	0.00	1.578E-04	1.435E-05	0.02	N.D			1.0E-02
	Cs-134	3.345E-04	1.666E-05	0.17	4.863E-04	1.538E-05	0.24	N.D			2.0E-03
	Cs-136	5.882E-05	1.012E-05	0.01	8.416E-05	1.436E-05	0.01	N.D			1.0E-02
	Cs-137	3.147E-04	1.683E-05	0.10	4.306E-04	1.715E-05	0.14	N.D			3.0E-03

※人が呼吸する空気中の放射性核種の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

核種		3月19日 MP-1 採取時間(18:18~18:28) 測定時間(19:08~) 1000秒			3月20日 MP-1 採取時間(11:27~11:37) 測定時間(16:17~) 500秒			3月20日 MP-1 採取時間(17:10~17:20) 測定時間(21:11~) 500秒			③放射線業務 従事者の呼吸 する空気中の 濃度限度 (Bq/cm ³)※			
		①放射能濃度 (Bq/cm ³)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	空气中濃度 限度に対す る割合 (①/③)				
		揮発性	I-131	2.513E-04	5.665E-05	0.25	5.254E-05	1.155E-05	0.05	2.230E-04		4.286E-05	0.22	1.0E-03
			I-132	1.229E-04	1.226E-04	0.00	N.D			N.D				7.0E-02
I-133	N.D				N.D			N.D			5.0E-03			
粒子状	Co-58	N.D			N.D			N.D			1.0E-02			
	Cs-134	N.D			N.D			N.D			2.0E-03			
	Cs-136	N.D			N.D			N.D			1.0E-02			
	Cs-137	N.D			N.D			N.D			3.0E-03			

核種		3月21日 MP-1 採取時間(10:40~10:50) 測定時間(12:15~) 500秒			3月21日 MP-1 採取時間(18:11~18:19) 測定時間(19:00~) 500秒						③放射線業務 従事者の呼吸 する空気中の 濃度限度 (Bq/cm ³)※			
		①放射能濃度 (Bq/cm ³)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	空气中濃度 限度に対す る割合 (①/③)							
		揮発性	I-131	2.250E-04	1.687E-05	0.23	1.580E-04	1.931E-05	0.16					1.0E-03
			I-132	2.420E-04	2.401E-05	0.00	8.097E-04	1.937E-05	0.01					7.0E-02
I-133	N.D				N.D						5.0E-03			
粒子状	Co-58	1.065E-05	1.138E-05	0.00	1.341E-05	9.886E-06	0.00				1.0E-02			
	Cs-134	4.410E-05	9.294E-06	0.02	3.017E-05	1.005E-05	0.02				2.0E-03			
	Cs-136	N.D			N.D						1.0E-02			
	Cs-137	4.711E-05	7.959E-06	0.02	3.306E-05	9.703E-06	0.01				3.0E-03			

※人が呼吸する空気中の放射性核種の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

核種	3月22日 MP-1 採取時間(10:02~10:10) 測定時間(11:53~) 500秒			3月22日 MP-1 採取時間(16:43~16:51) 測定時間(17:32~) 500秒			3月23日 MP-1 採取時間(9:40~9:48) 測定時間(14:17~) 500秒			③放射線業務 従事者の呼吸 する空気中の 濃度限度 (Bq/cm ³)※			
	①放射能濃度	②検出限界濃度	空气中濃度	①放射能濃度	②検出限界濃度	空气中濃度	①放射能濃度	②検出限界濃度	空气中濃度				
	揮発性	I-131	1.416E-04	2.272E-05	0.14	1.349E-04	2.216E-05	0.13	2.7E-04		3.9E-05	0.27	1.0E-03
		I-132	N.D			N.D			2.8E-04		2.2E-04	0.00	7.0E-02
I-133		N.D			N.D			N.D			5.0E-03		
粒子状	Co-58	N.D			N.D			N.D			1.0E-02		
	Cs-134	1.293E-05	9.476E-06	0.01	1.353E-05	9.812E-06	0.01	N.D			2.0E-03		
	Cs-136	N.D			N.D			N.D			1.0E-02		
	Cs-137	1.024E-05	8.838E-06	0.003	1.369E-05	8.361E-06	0.005	N.D			3.0E-03		
その他	Te-129	2.316E-03	1.784E-03	0.01	N.D			N.D			4.0E-01		
	Te-132	2.191E-05	1.649E-05	0.003	N.D			1.6E-04	2.2E-05	0.02	7.0E-03		
	Ru-106	N.D			N.D			N.D			6.0E-04		

核種	3月23日 MP-1 採取時間(16:06~16:14) 測定時間(17:38~) 500秒									③放射線業務 従事者の呼吸 する空気中の 濃度限度 (Bq/cm ³)※		
	①放射能濃度 (Bq/cm ³)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (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	1.4E-05	0.21							1.0E-03
		I-132	2.8E-04	2.8E-05	0.00							7.0E-02
I-133		N.D								5.0E-03		
粒子状	Co-58	N.D								1.0E-02		
	Cs-134	1.7E-05	8.5E-06	0.01						2.0E-03		
	Cs-136	3.7E-06	5.2E-06	0.00						1.0E-02		
	Cs-137	1.7E-05	6.9E-06	0.01						3.0E-03		
その他	Te-129	9.3E-04	2.6E-04	0.00						4.0E-01		
	Te-132	7.1E-04	6.5E-06	0.10						7.0E-03		
	Ru-106	8.2E-05	5.7E-05	0.14						6.0E-04		

※人が呼吸する空気中の放射性核種の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

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

核種	3月21日 23:15 2F北放水口付近(3,4号放水口付近)			3月22日 15:06 2F岩沢海岸付近(1,2号放水口から南側に約7,000m地点)			3月22日 0:38 2F富岡川河口付近(3,4号放水口から北側に約2,000m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)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	水中濃度限 度に対する 割合 (①/③)	
Co-58	5.704E-03	7.570E-03	0.0	N.D	1.301E-02		1.028E-02	1.253E-02	0.0	1.0E+00
I-131	1.085E+00	1.284E-02	27.1	6.664E-01	1.862E-02	16.7	3.211E+00	1.694E-02	80.3	4.0E-02
I-132	1.597E-01	4.392E-02	0.1	N.D	7.915E-02		8.761E-01	4.236E-02	0.3	3.0E+00
Cs-134	4.815E-02	9.213E-03	0.8	3.925E-02	1.135E-02	0.7	7.535E-02	1.102E-02	1.3	6.0E-02
Cs-136	6.682E-03	4.722E-03	0.0	N.D	6.784E-03		1.159E-02	7.718E-02	0.0	3.0E-01
Cs-137	5.283E-02	8.822E-03	0.6	4.361E-02	1.129E-02	0.5	7.760E-02	1.186E-02	0.9	9.0E-02

核種	3月22日 14:28 2F北放水口付近(3,4号放水口付近)			3月23日 13:51 2F北放水口付近(3,4号放水口付近)			3月23日 14:25 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)	②検出限界濃度 (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)	②検出限界濃度 (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)	②検出限界濃度 (Bq/cm ³)	水中濃度限 度に対する 割合 (①/③)	
Co-58	N.D	1.526E-02								
Ru-105				3.4E-02	2.5E-02	0.01	3.3E-02	2.8E-02	0.01	3E+00
Ru-106							1.2E-01	1.2E-01	1.25	1E-01
I-131	1.138E+00	1.993E-02	28.5	7.4E-01	2.7E-02	18.6	7.6E-01	2.7E-02	19.1	4E-02
I-132	N.D	8.791E-02		2.0E-01	5.8E-02	0.1	3.3E-01	5.3E-02	0.1	3E+00
Cs-134	4.631E-02	1.350E-02	0.8	5.1E-02	2.0E-02	0.8	3.3E-02	2.1E-02	0.5	6E-02
Cs-136	N.D	7.849E-03								
Cs-137	3.962E-02	1.406E-02	0.4	5.5E-02	2.0E-02	0.6	4.3E-02	2.1E-02	0.5	9E-02

注:前回からの修正箇所

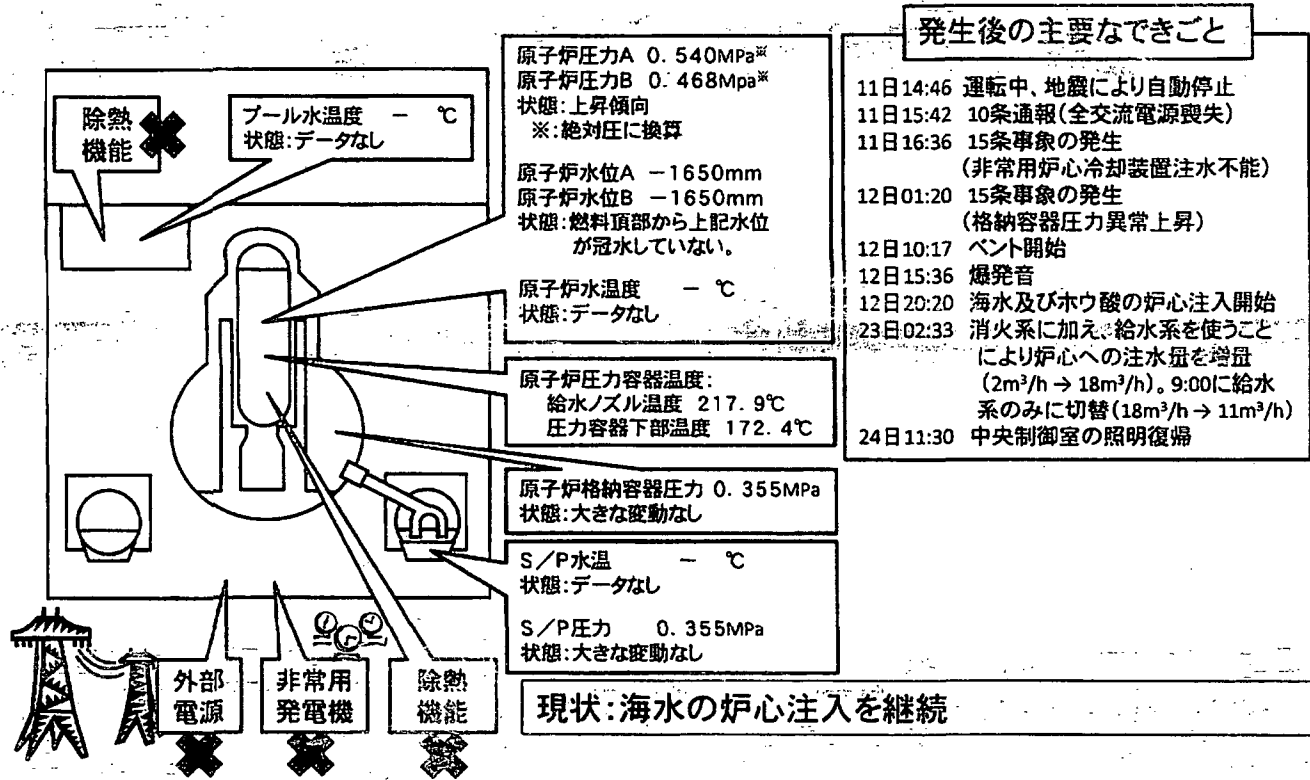
- ・p.12、1Fダスト分析(3月23日9:10)の追加
- ・p.14、2Fダスト分析(3月23日17:38~)の削除
- ・p.15、2Fダスト分析(3月23日14:17~)の追加
- ・p.15、2Fダスト分析(3月23日14:17~)の追加に伴う移動
- ・p.16、2F海水分析(3月23日13:51)採取場所の修正

福島第一原子力発電所 プラント関連パラメータ

3月24日 18:05 現在

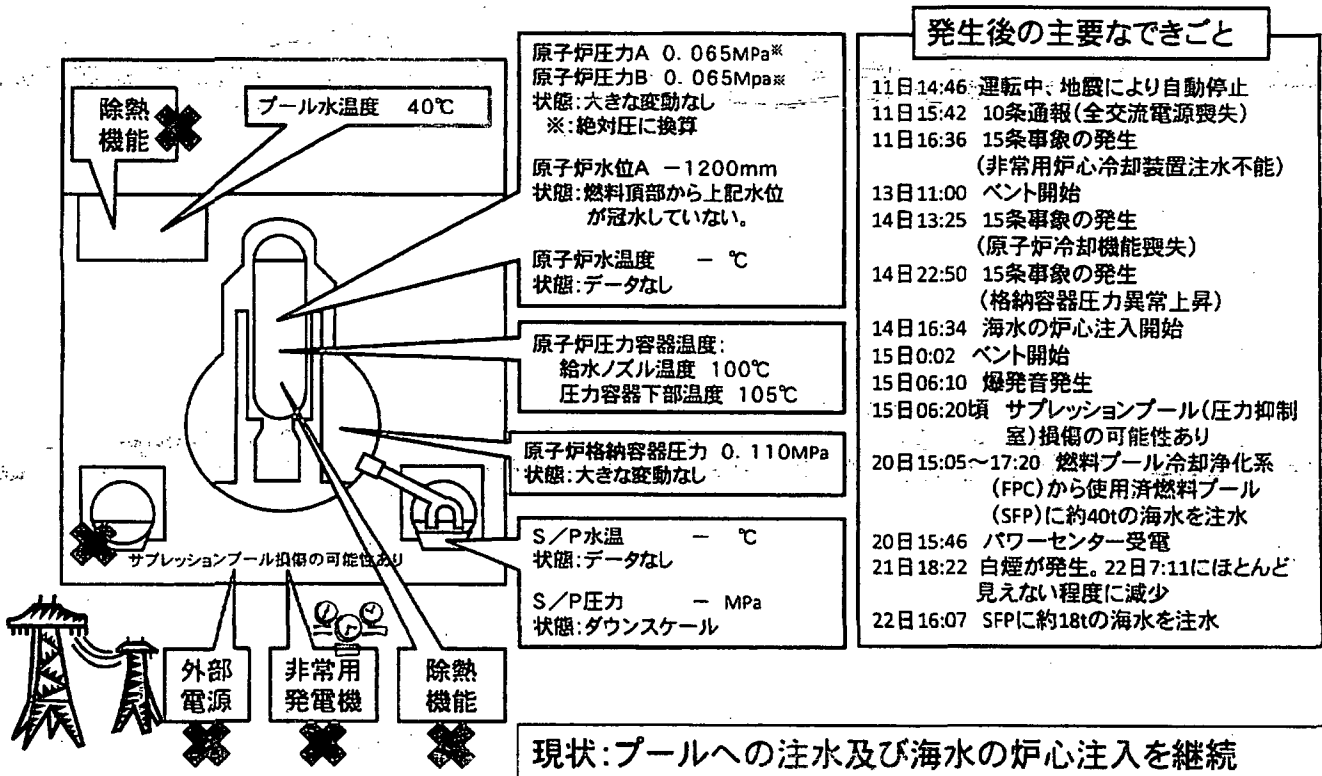
号機	1u	2u	3u	4u	5u	6u
注水状況	給水ラインを用いた海水注入中。 流量 160l/min (3/24 02:35)	消火系ラインを用いた海水注入中。 流量 12 m ³ /hr (本設計器) (3/24 17:00)	消火系ラインを用いた海水注入中。 流量 計器不良 (本設計器) (3/24 18:00)	停止中	停止中	停止中
原子炉水位	燃料域A: -1650mm 燃料域B: -1650mm (3/24 17:00 現在)	燃料域A: -1200mm (3/24 17:00 現在)	燃料域A: -1850mm 燃料域B: -2300mm (3/24 18:00 現在)	-	停止域 1937mm (3/24 17:00 現在)	停止域 2311mm (3/24 17:00 現在)
原子炉圧力	0.439MPa g (A) 0.367MPa g (B) (3/24 17:00 現在)	-0.036MPa g (A) -0.036MPa g (B) (3/24 17:00 現在)	0.038MPa g (A) -0.101MPa g (C) (3/24 18:00 現在)	-	0.036MPa g (3/24 17:00 現在)	0.008MPa g (3/24 17:00 現在)
原子炉水温度	-			-	82.7°C (3/24 17:00 現在)	21.3°C (3/24 17:00 現在)
原子炉圧力容器温度	給水ノズル温度: 217.9°C 圧力容器下部温度: 172.4°C (3/24 17:00 現在)	給水ノズル温度: 100°C 圧力容器下部温度: 105°C (3/24 17:00 現在)	給水ノズル温度: 65.6°C(調査中) 圧力容器下部温度: 155.7°C (3/24 18:00 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 0.355MPa abs S/C 0.355MPa abs (3/24 17:00 現在)	D/W 0.110MPa abs S/C ダウンスケール (3/24 17:00 現在)	D/W 0.107MPa abs S/C 0.200MPa abs (3/24 18:00 現在)	-		
CAMS	D/W 4.09×10 ¹ Sv/h S/C 2.58×10 ¹ Sv/h (3/24 17:00 現在)	D/W 4.74×10 ¹ Sv/h S/C 1.36×10 ² Sv/h (3/24 17:00 現在)	D/W 5.33×10 ¹ Sv/h S/C 1.45×10 ² Sv/h (3/24 18:00 現在)	-		
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)	-		
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)	-		
使用済燃料プール水温度	-	40°C (3/24 17:00 現在)	-	指示不良 (3/24 11:00)	49.0°C (3/24 17:00 現在)	28.5°C (3/24 17:00 現在)
電源	外部電源受電中 (P/C2C)			外部電源受電中 (P/CAD)		外部電源受電中
その他情報						

福島第一原子力発電所1号機の状況 (3月24日 18:05現在)



原子力ハンドブック編集委員会, 原子力ハンドブック

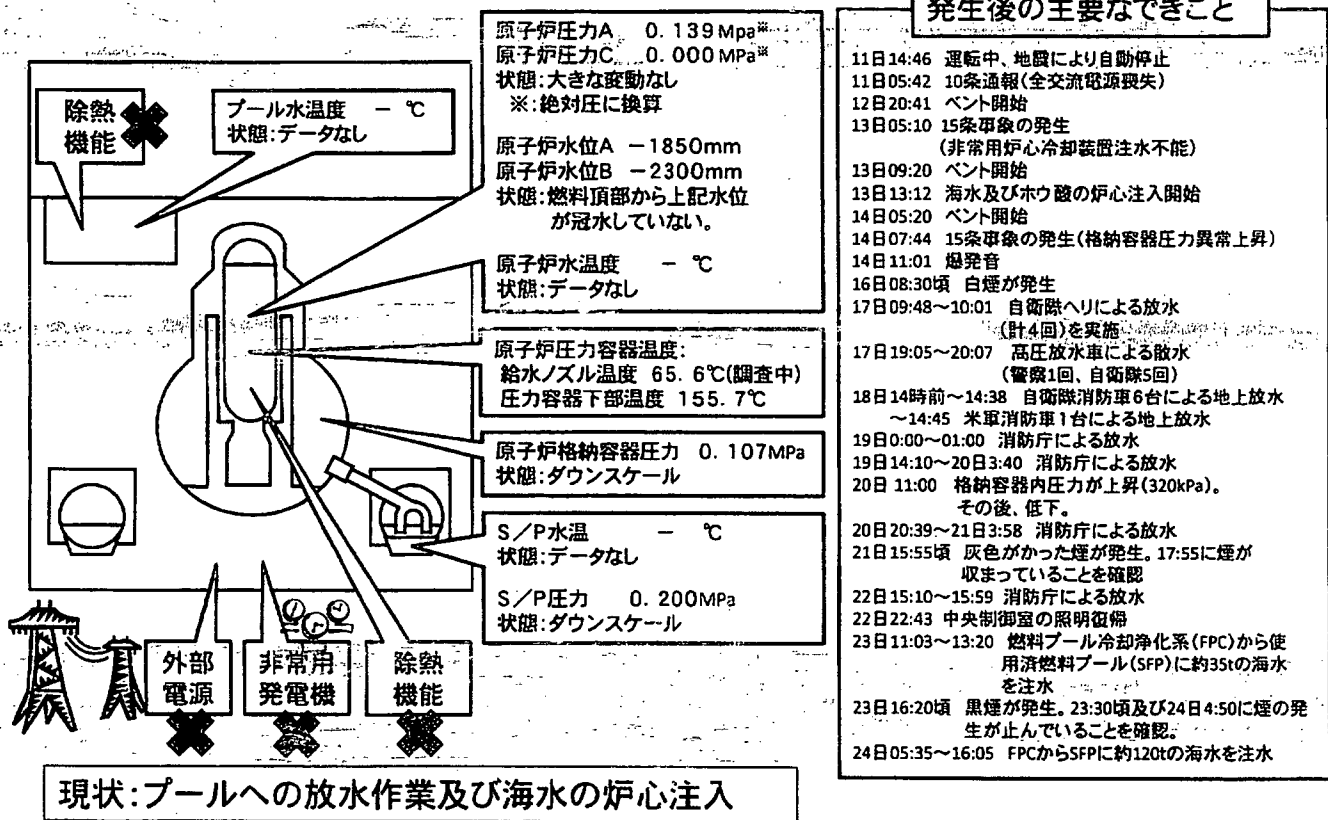
福島第一原子力発電所2号機の状況 (3月24日 18:05現在)



原子力ハンドブック編集委員会, 原子力ハンドブック

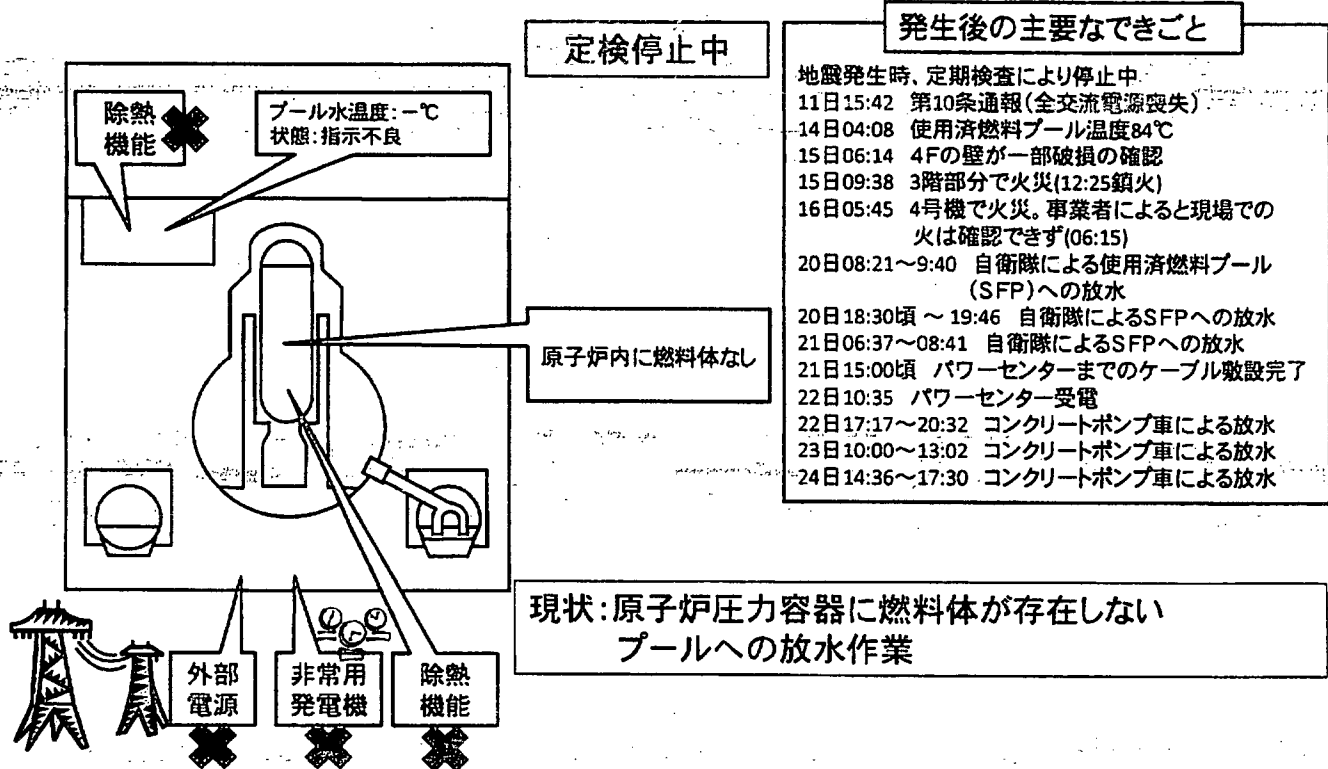
福島第一原子力発電所3号機の状況

(3月24日 18:05現在)



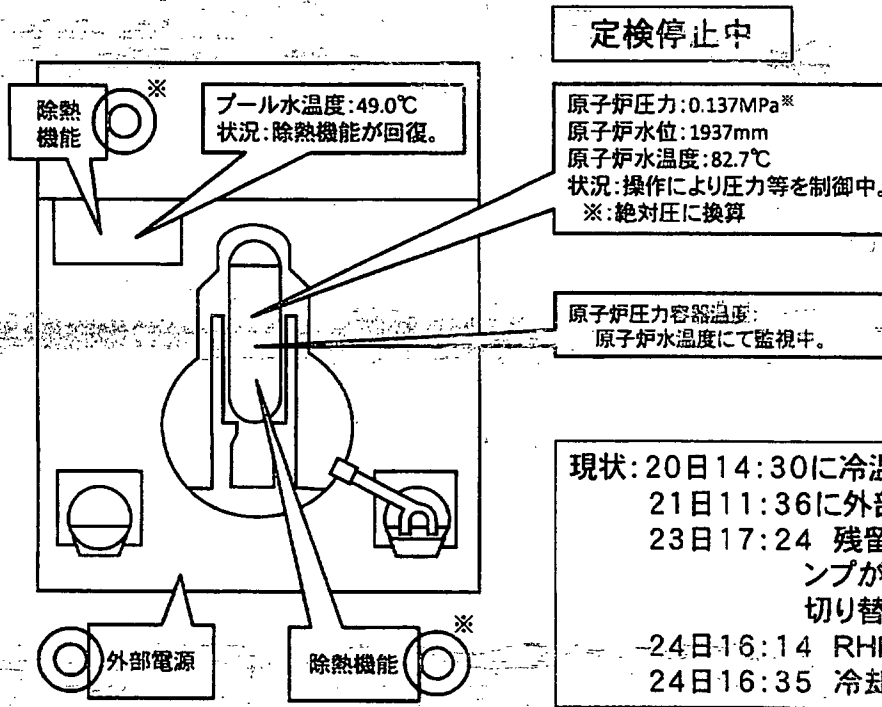
福島第一原子力発電所4号機の状況

(3月24日 18:05現在)



福島第一原子力発電所5号機の状況

(3月24日 18:05現在)

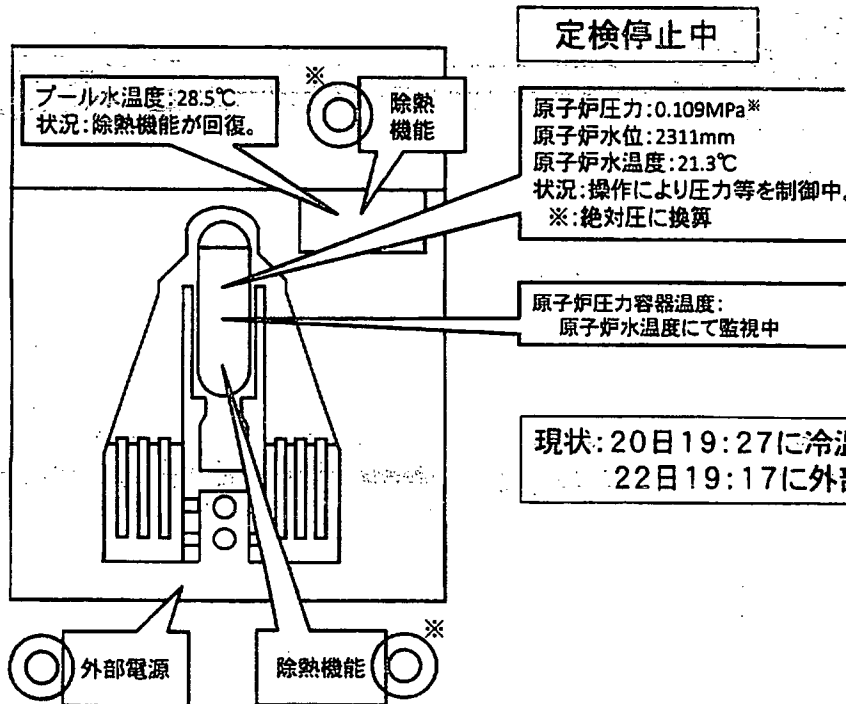


※ 炉水とプール水を切替えて除熱

原子力ハンドブック編集委員会, 原子力ハンドブック

福島第一原子力発電所6号機の状況

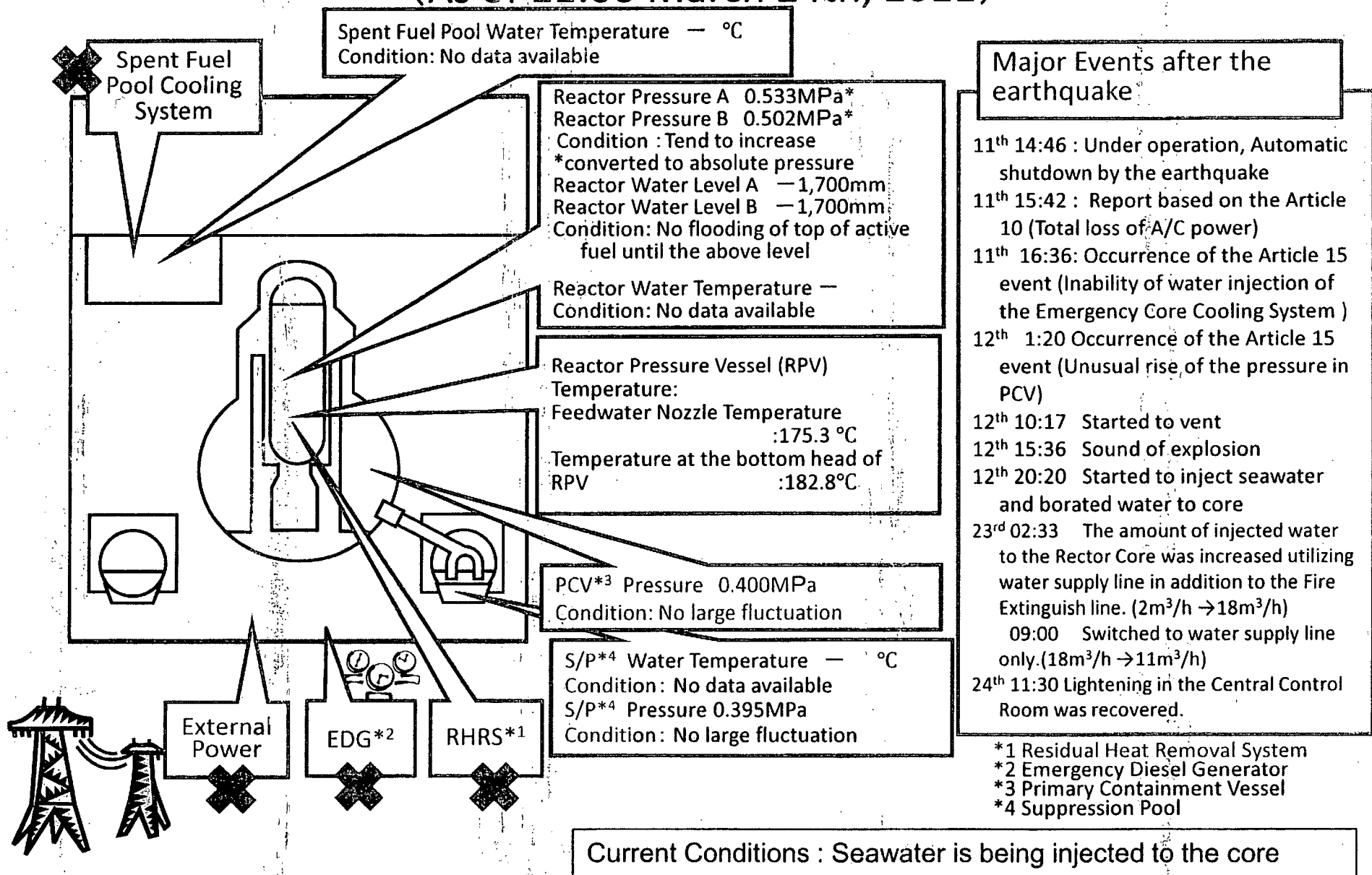
(3月24日 18:05現在)



※ 炉水とプール水を切替えて除熱

原子力ハンドブック編集委員会, 原子力ハンドブック

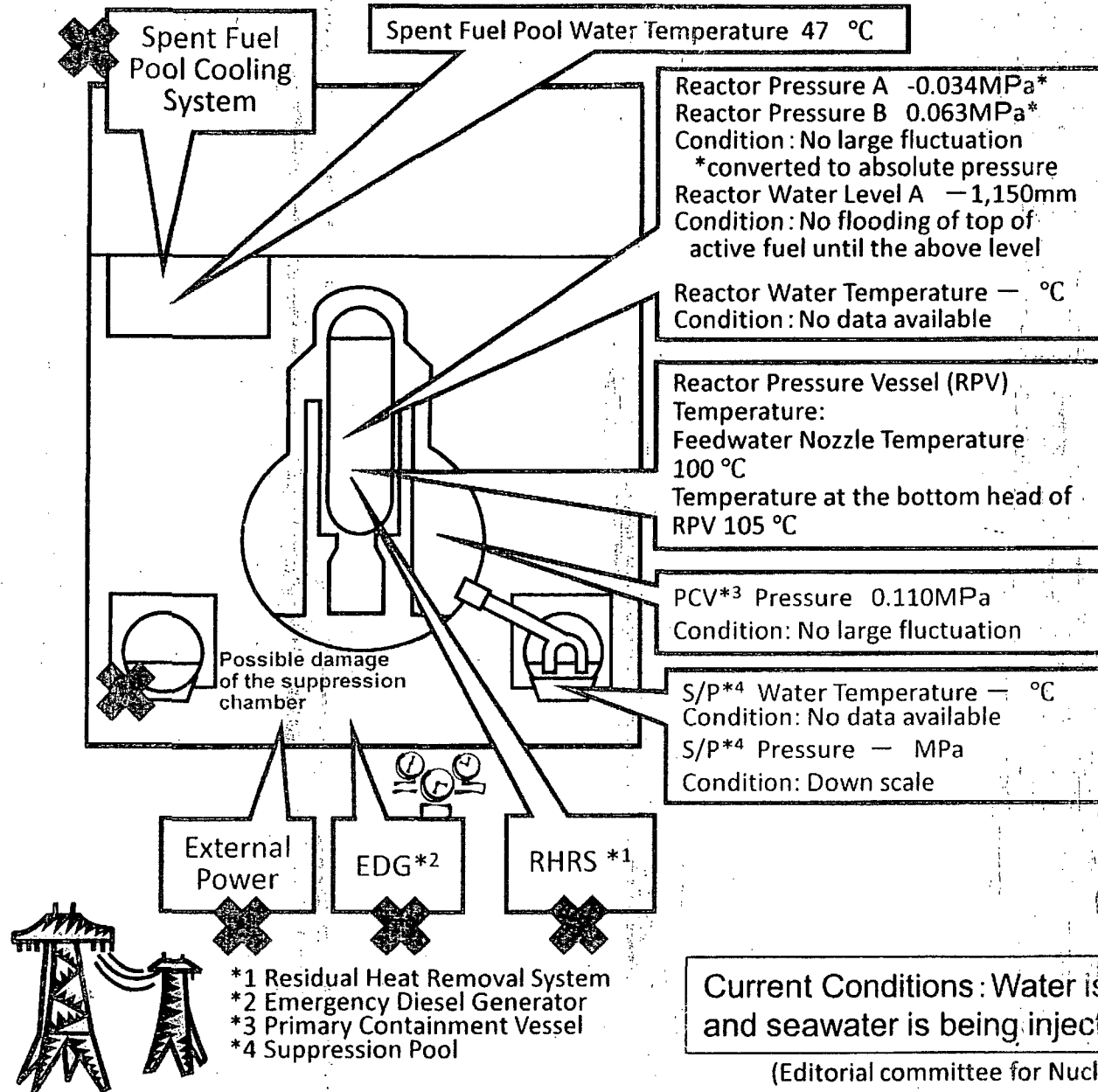
Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 1 (As of 11:00 March 24th, 2011)



Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 2 (As of 11:00 March 24th, 2011)

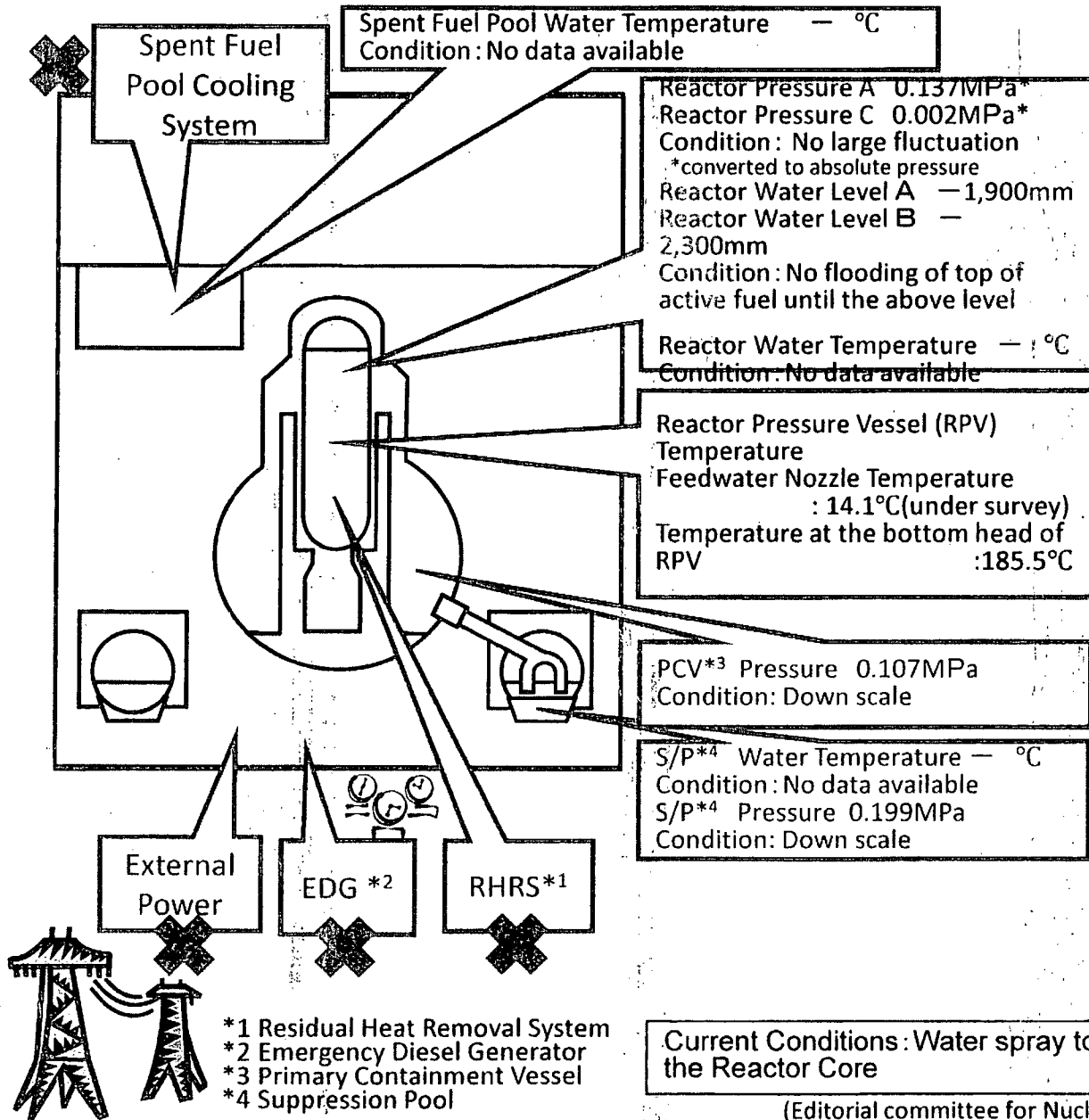
Major Events after the earthquake

- 11th 14:46 Under operation, Automatic shutdown by the earthquake
- 11th 15:42 Report based on the Article 10 (Total loss of A/C power)
- 11th 16:36 Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
- 13th 11:00 Started to vent
- 14th 13:25 Occurrence of the Article 15 event (Loss of reactor cooling functions)
- 14th 16:34 Started to inject water to the Reactor Core
- 14th 22:50 Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
- 15th 0:02 Started to vent
- 15th 6:10 Sound of explosion
- 15th around 6:20 Possible damage of the suppression chamber
- 20th 15:05~17:20 Approximately 40 ton seawater injection to the Spent Fuel Pool (SFP) via Fuel Pool Cooling System (FPC)
- 20th 15:46 Power Center received electricity.
- 21st 18:22 White smoke generated. The smoke died down and almost invisible at 07:11 March 22nd.
- 22nd 16:07 Injection of around 18 tons of seawater to the Spent Fuel Pool



Current Conditions: Water is being injected to Spent Fuel Pool and seawater is being injected to the core

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 3 (As of 11:00 March 24th, 2011)

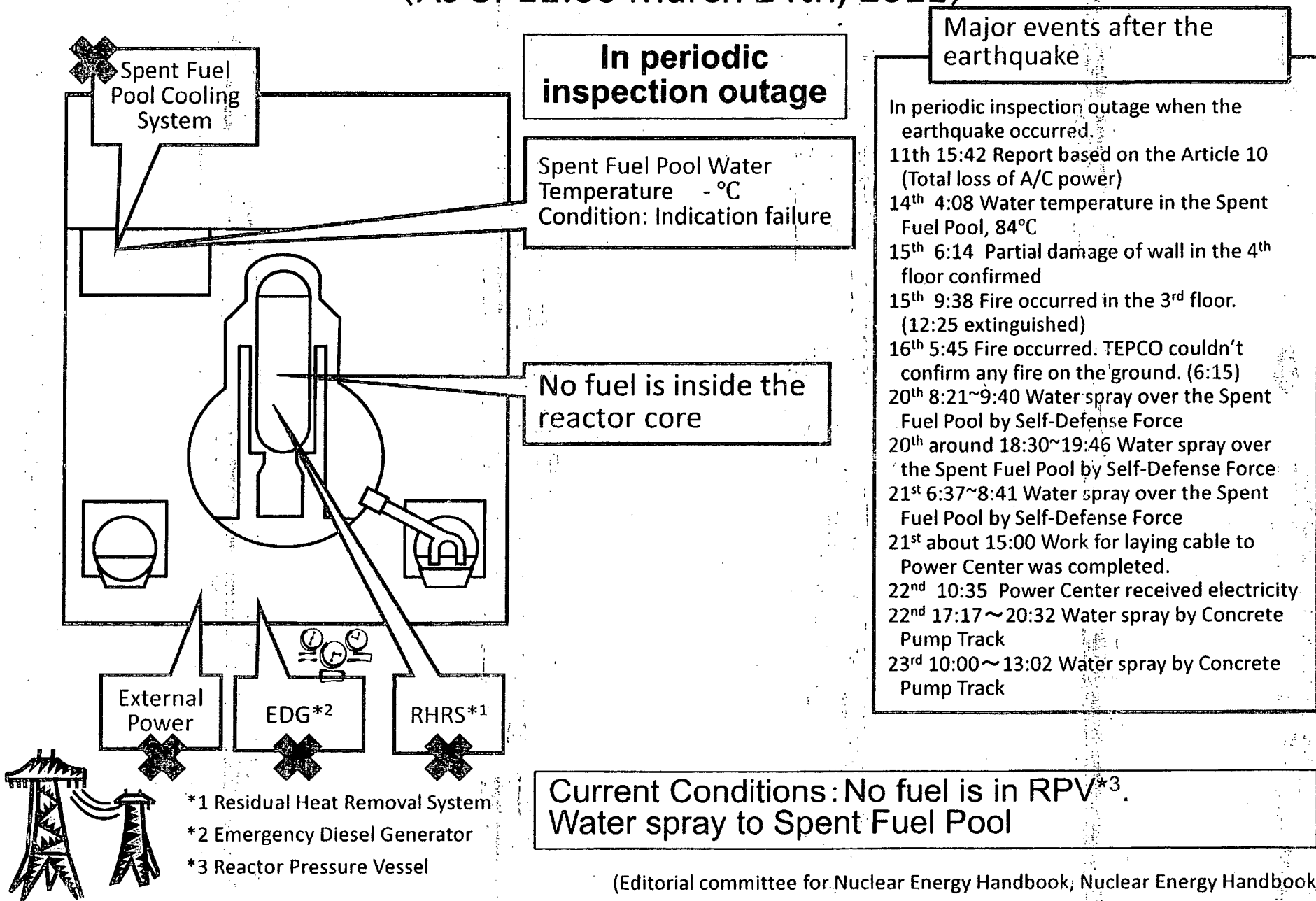


Major Events after the earthquake

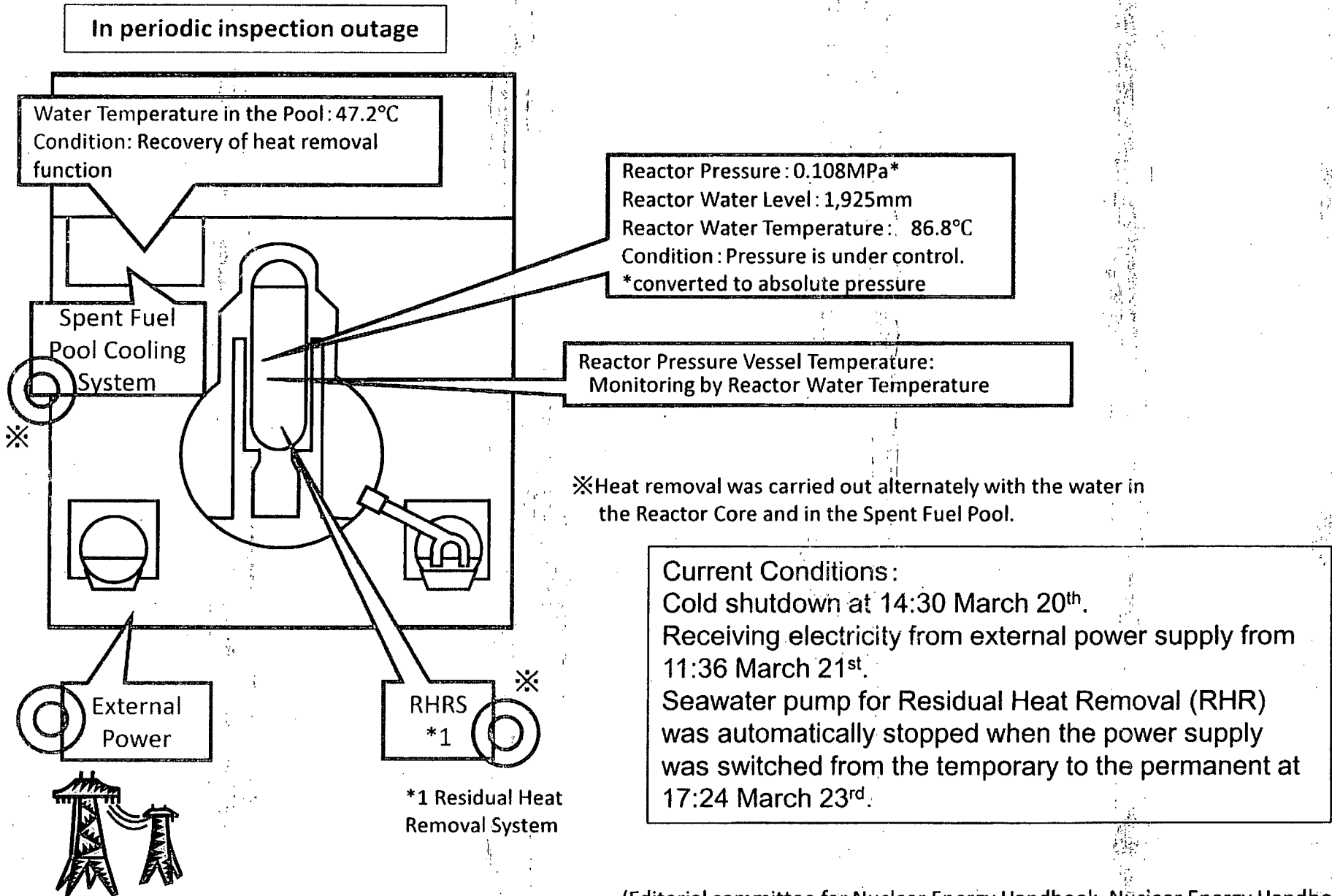
- 11th 14:46 Under operation, Automatic shutdown by the earthquake
- 11th 5:42 Report based on the Article 10 (Total loss of A/C power)
- 12th 20:41 Started to vent
- 13th 5:10 Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
- 13th 9:20 Started to vent
- 13th 13:12 Started to inject seawater and borated water to core
- 14th 5:20 Started to vent
- 14th 7:44 Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
- 14th 11:01 Sound of explosion
- 16th around 8:30 White smoke generated.
- 17th 9:48~10:01 Water discharge by the helicopters of Self-Defense Force (4 times)
19:05~20:07 Water spray from the ground by High pressure water-cannon trucks (Police: once, Self-Defense Force: 5 times)
- 18th before 14:00~14:38 Water spray from the ground by 6 fire engines of Self-Defense Force
~14:45 Water spray from the ground by a fire engine of the US Military
- 19th 0:00 ~01:00 Water spray by Tokyo Fire Department
- 19th 14:10 ~ 20th 3:40 Water spray by Tokyo Fire Department
- 20th 11:00 Pressure of PCV rose(320kPa).Afterward fell.
- 20th 20:39 ~ 21st 3:58 Water spray by Tokyo Fire Department
- 21st about 15:55 Grayish smoke generated and was confirmed to be died down at 17:55.
- 22nd 15:10 ~15:59 Water spray by Tokyo Fire Department
- 22nd 22:43 Lightning in the Central Control Room was recovered.
- 23rd 11:03 ~13:20 Injection of about 35ton of sea water to the Spent Fuel Pool (SFP) via the Cooling and Purification Line (FPC)
- 23rd around 16:20 Black smoke generated and was confirmed to died down at around 23:30 and 24th 4:50.
- 24th 5:35 Injection of sea water to SFP via FPC (12:08 Confirmed the injection of 4~5t/h)

Current Conditions: Water spray to Spent Fuel Pool and sea water injection to the Reactor Core

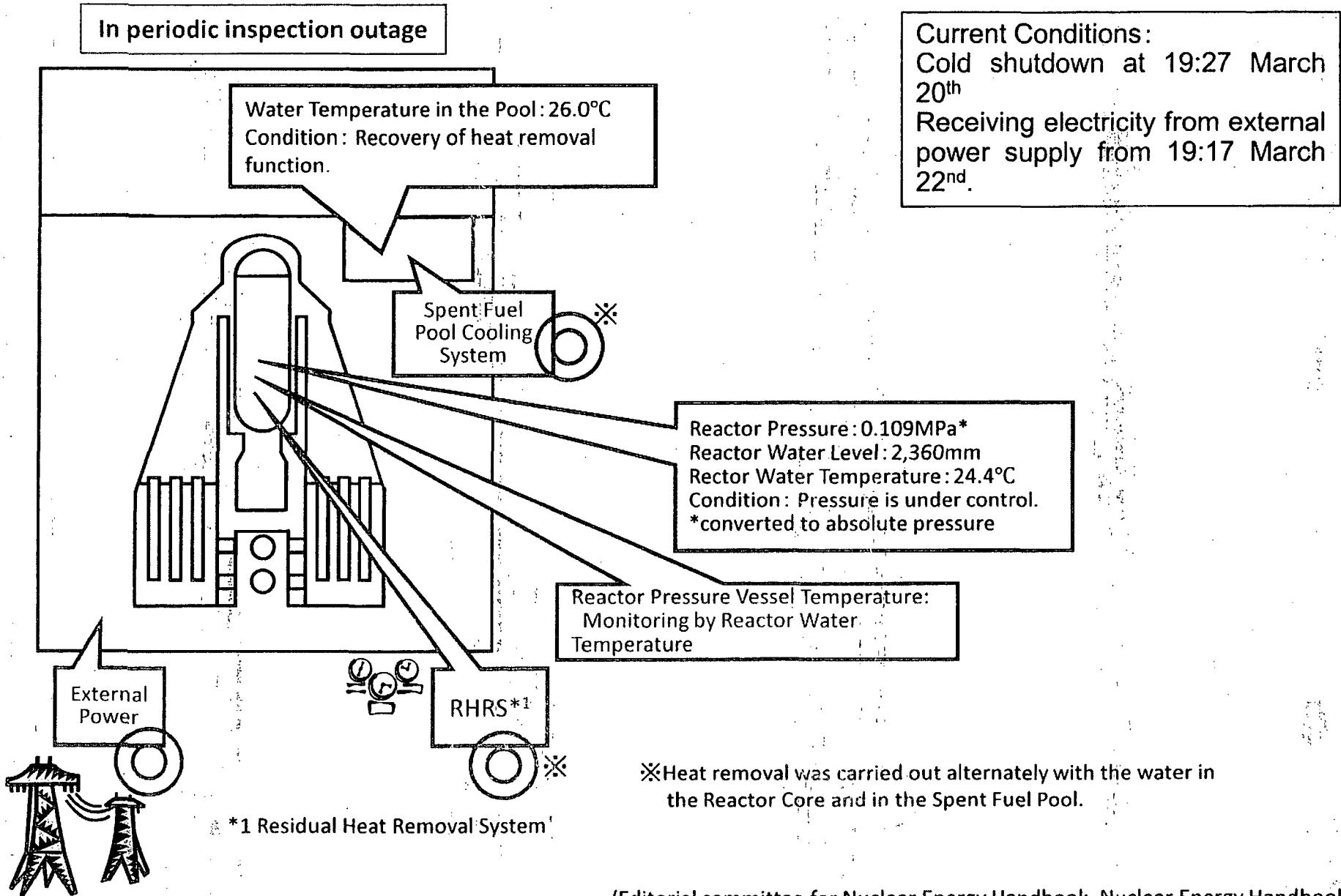
Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 4 (As of 11:00 March 24th, 2011)



Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 5 (As of 11:00 March 24th, 2011)



Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 6 (As of 11:00 March 24th, 2011)



From: LIA08 Hoc
Sent: Monday, March 14, 2011 3:13 PM
To: LIA06 Hoc
Cc: LIA04 Hoc
Subject: RE: Fairfax and LA County Fire Chiefs briefings

Mark,

This looks to me like a request for a briefing on radiological hazards in Ofunato, Japan. It does not look related to the request I made of Mike Dudek, Jeff and Jason for non-rad hazards in TOKYO that **OUR** folks need to be aware of.

Rani

From: LIA04 Hoc
Sent: Monday, March 14, 2011 3:03 PM
To: LIA08 Hoc
Subject: FW: Fairfax and LA County Fire Chiefs briefings

From: LIA07 Hoc
Sent: Monday, March 14, 2011 3:00 PM
To: LIA04 Hoc
Subject: FW: Fairfax and LA County Fire Chiefs briefings

From: RMTFACTSU_ELNRC [mailto:RMTFACTSU_ELNRC@ofda.gov]
Sent: Monday, March 14, 2011 2:41 PM
To: LIA11 Hoc; LIA01 Hoc; LIA07 Hoc
Cc: Gott, William; Marshall, Jane; Grant, Jeffery
Subject: Fairfax and LA County Fire Chiefs briefings

All the USAR teams will be working in Ofunato, Japan and their leadership is hearing negative reports about the plants and are concerned about the teams safety. The Fairfax and Los Angeles County Fire Chiefs are very concerned and the liaisons are setting up a call later today with them to inform them of the potential hazards if the worst were to occur. We would also ask that a HP expert be on the call to provide the briefing and answer any questions their leadership has. They have asked us to provide an internal overview / briefing / info that we can give them over the phone to inform them.

Could we please develop this briefing and identify an individual to participate in this phone call as soon as possible. We don't really need a product to distribute and don't plan on it, but need to have the expert on the phone.

Thanks and let me know soon as we know who and I will let you know when the call is going to happen.

PS My blackberry has bad reception at the moment, call me on (b)(6) Thanks.

Jason

RRR/4

From: Leeds, Eric
To: Milligan, Patricia
Subject: RE: risk comm guidelines
Date: Saturday, March 19, 2011 4:39:00 PM

Thanks, Trish – you're terrific! I hadn't heard about the milk – where did that come from? Heads up – be careful with your emails, we've already received an FOIA for all internal comms on the Japanese event from the AP.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Milligan, Patricia
Sent: Saturday, March 19, 2011 10:20 AM
To: Leeds, Eric
Subject: risk comm guidelines

this is also in adams and on the NRC EP web site under regs and guidance. hope your day is going well. i can't believe there is contaminant in the milk. will this nightmare never stop?

Patricia Milligan, CHP, RPh
Senior Technical Advisor for Preparedness & Response
Office of Nuclear Security and Incident Response
US NRC
MS T B46M
Washington, DC 20555
301-415-2223
Blackberry (b)(6)

RRR/5

From: Mamish, Nader
To: Leeds, Eric
Subject: FW: Partial List
Date: Monday, March 14, 2011 1:43:22 PM

(b)(6) ... For your consideration in case we send more staff in the future ...

From: LIA03 Hoc
Sent: Monday, March 14, 2011 1:37 PM
To: Mamish, Nader
Subject: RE: Partial List

Nader, this is Jen. There is a guy in Region I named James Noggle who has past plant experience at Fukushima Daiichi. He had written to Bill Dean over the weekend indicating his willingness to travel and help. I got CC'd because Jim and I recently made contact on an IAEA issue. I sent the message to the Ops Center at the time but was told we were sending Jim Trapp and Tony Ulses. Now that more people are being sent, it might be worth considering this guy. I will forward you the original email.

From: Mamish, Nader
Sent: Monday, March 14, 2011 1:35 PM
To: Boger, Bruce
Cc: Leeds, Eric; Carter, Mary; Virgilio, Martin; Borchardt, Bill; Meighan, Sean; Tracy, Glenn; Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster, Jack; Devercelly, Richard; LIA03 Hoc; Foggie, Kirk; Smith, Brooke
Subject: RE: Partial List

Thanks to all for your willingness to support. For those of you who may not have provided some needed information, could you please e-mail Mary Carter the following information ASAP?

Your name as it appears on your passport
DOB
Passport number
Passport expiration date

We're looking at a flight tomorrow. Kirk Foggie will brief the team on logistics during the flight (Margie briefed Chuck).

Thanks again!

From: Boger, Bruce
Sent: Monday, March 14, 2011 1:10 PM
To: Mamish, Nader
Cc: Leeds, Eric; Carter, Mary; Virgilio, Martin; Borchardt, Bill; Meighan, Sean; Tracy, Glenn; Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster, Jack; Devercelly, Richard
Subject: Partial List

Nader, Here's the partial list of folks on the Japanese support team (need to hear back from Region 1 for 1 name):

RRR/16

Chuck Casto
John Monninger
Tony Nakanishi
Tim Kolb
Jack Foster
Richard DeVercelly

I've been advised that all have current passports and are available to travel tonight. We're working with them to contact the NRC doctor to discuss medical information. Sean Meighan will work with the HQ folks to coordinate a visit with the doctor and will advise the non-HQ folks to call him.

Thanks in advance for Mary Carter's support on travel logistics.

From: LIA06 Hoc
Sent: Tuesday, March 15, 2011 8:50 AM
To: Hayden, Elizabeth
Subject: FW: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

Fyi.

Mark

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

From: LIA06 Hoc
Sent: Tuesday, March 15, 2011 8:50 AM
To: Burnell, Scott; Brenner, Eliot
Subject: FW: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

FYI-local press may be asking questions about the Japanese event at the Palo Verde drill today.

Mark Lombard, LT Coordinator

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

From: Wright, Lisa (Gibney)
Sent: Tuesday, March 15, 2011 8:22 AM
To: LIA01 Hoc; LIA11 Hoc; Howell, Linda
Subject: Fw: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

Fyi. Perhaps the ET or our OPA (especially Region 4) would want a heads up

The reception is spotty here at (b)(6) but I am trying to keep a periodic eye on my blackberry. We are heading to the Ocean today so maybe things will improve

Sent from my NRC blackberry

Lisa Gibney

To reach me please call

(b)(6)

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

From: Ralston, Michelle <Michelle.Ralston@dhs.gov>
To: Fiore, Craig <craig.fiore@dhs.gov>; Sherwood, Harry <harry.sherwood@dhs.gov>; Quinn, Vanessa <Vanessa.Quinn@dhs.gov>; Greten, Timothy <Timothy.Greten@dhs.gov>; Horwitz, Steve <steve.horwitz@dhs.gov>; Coons, Albert <albert.coons@dhs.gov>
Cc: Hamill, John <John.Hamill@dhs.gov>; Hudson, Kelly <kelly.hudson@dhs.gov>; Lusk, Jeff <jeffrey.lusk@dhs.gov>; O'Boyle, Seamus <Seamus.O'Boyle@dhs.gov>; Kirin, Alexandra <alexandra.kirin@dhs.gov>
Sent: Tue Mar 15 07:33:37 2011
Subject: RE: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

Craig,

RRR/7

As a courtesy, I will forward this information to our HQ OPA folks. I am certain that the RIX OPA staff have done so, however in the interest of information sharing I promised to share what I receive with them as well.

Please let us know if there is any information or support that Outreach may provide. There are TPs, Facts Sheets, etc. that you might like to have in hand, if do not already.

Thanks!

Respectfully,

Michelle Ralston, MS, PMI
Public Affairs, Stakeholder Outreach & Campaign Planning Professional Services & Integration Technological Hazards
Division Protection & National Preparedness DHS/FEMA
1800 South Bell Street, Rm. 828
Arlington, VA 22202
(202) 212-2310 desk
(b)(6) Blackberry
(703) 305-0837 facsimile

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

From: Fiore, Craig
Sent: Tuesday, March 15, 2011 7:27 AM
To: Sherwood, Harry; Quinn, Vanessa; Greten, Timothy; Horwitz, Steve; Coons, Albert; Ralston, Michelle
Cc: Hamill, John; Hudson, Kelly; Lusk, Jeff
Subject: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

THD Senior Leadership:

At yesterday's Contoller/Evauator Briefing, the Lead Coordinator for this week's RCC Drill here at Palo Verde informed us that there is the real potential that several local media outlets (TV and print) will be present for the Drill later today. It was not certain whether or not any of these media sources will be requesting to ask questions or conduct interviews with FEMA but the indication was that because of the recent EQ/Tsunami/NPP emergency in Japan...I should definitely be prepared to field some questions about the state of REP around Palo Verde and even nationwide.

I'm confident I can appropriately respond to any sort of media inquiries that may come my way over the course of today, but per the direction we received on yesterday's Daily Japanese Emergency SitAwareness Call with the Regions and DHS IP...I wanted to be sure THD HQ was aware that there is the potential for media interaction today down here in Arizona.

Please let me know if you need any additional details regarding this matter. Thank you.

-Craig

Sent from the BlackBerry of Craig J. Fiore

From: LIA06 Hoc
Sent: Tuesday, March 15, 2011 8:48 AM
To: LIA01 Hoc
Subject: RE: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

Thanks.

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

From: LIA01 Hoc
Sent: Tuesday, March 15, 2011 8:48 AM
To: LIA06 Hoc
Subject: FW: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

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

From: Wright, Lisa (Gibney)
Sent: Tuesday, March 15, 2011 8:22 AM
To: LIA01 Hoc; LIA11 Hoc; Howell, Linda
Subject: Fw: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

Fyi. Perhaps the ET or our OPA (especially Region 4) would want a heads up

The reception is spotty here at (b)(6) but I am trying to keep a periodic eye on my blackberry. We are heading to the Ocean today so maybe things will improve

Sent from my NRC blackberry

Lisa Gibney

To reach me please call

(b)(6)

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

From: Ralston, Michelle <Michelle.Ralston@dhs.gov>
To: Fiore, Craig <craig.fiore@dhs.gov>; Sherwood, Harry <harry.sherwood@dhs.gov>; Quinn, Vanessa <Vanessa.Quinn@dhs.gov>; Greten, Timothy <Timothy.Greten@dhs.gov>; Horwitz, Steve <steve.horwitz@dhs.gov>; Coons, Albert <albert.coons@dhs.gov>
Cc: Hamill, John <John.Hamill@dhs.gov>; Hudson, Kelly <kelly.hudson@dhs.gov>; Lusk, Jeff <jeffrey.lusk@dhs.gov>; O'Boyle, Seamus <Seamus.O'Boyle@dhs.gov>; Kirin, Alexandra <alexandra.kirin@dhs.gov>
Sent: Tue Mar 15 07:33:37 2011
Subject: RE: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

Craig,

As a courtesy, I will forward this information to our HQ OPA folks. I am certain that the RIX OPA staff have done so, however in the interest of information sharing I promised to share what I receive with them as well.

Please let us know if there is any information or support that Outreach may provide. There are TPs, Facts Sheets, etc. that you might like to have in hand, if do not already.

RRR/8

Thanks!

Respectfully,

Michelle Ralston, MS, PMI
Public Affairs, Stakeholder Outreach & Campaign Planning
Professional Services & Integration
Technological Hazards Division
Protection & National Preparedness
DHS/FEMA
1800 South Bell Street, Rm. 828
Arlington, VA 22202
(202) 212-2310 desk
(b)(6) Blackberry
(703) 305-0837 facsimile

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

From: Fiore, Craig
Sent: Tuesday, March 15, 2011 7:27 AM
To: Sherwood, Harry; Quinn, Vanessa; Greten, Timothy; Horwitz, Steve; Coons, Albert; Ralston, Michelle
Cc: Hamill, John; Hudson, Kelly; Lusk, Jeff
Subject: Media will be at today's Palo Verde Reception and Care Center (RCC) Drill

THD Senior Leadership:

At yesterday's Controller/Evaluator Briefing, the Lead Coordinator for this week's RCC Drill here at Palo Verde informed us that there is the real potential that several local media outlets (TV and print) will be present for the Drill later today. It was not certain whether or not any of these media sources will be requesting to ask questions or conduct interviews with FEMA but the indication was that because of the recent EQ/Tsunami/NPP emergency in Japan...I should definitely be prepared to field some questions about the state of REP around Palo Verde and even nationwide.

I'm confident I can appropriately respond to any sort of media inquiries that may come my way over the course of today, but per the direction we received on yesterday's Daily Japanese Emergency SitAwareness Call with the Regions and DHS IP...I wanted to be sure THD HQ was aware that there is the potential for media interaction today down here in Arizona.

Please let me know if you need any additional details regarding this matter. Thank you.

-Craig

Sent from the BlackBerry of Craig J. Fiore

From: LIA04 Hoc
Sent: Tuesday, March 15, 2011 3:07 AM
To: Virgilio, Rosetta; Rivera, Alison
Cc: Rautzen, William
Subject: RE: Operations Center coverage for State Liaison Function as of 10 pm 3/14

Have we heard from: Bill Rautzen about his availability? He was a trooper on Sunday night; hoping he can assist.

Rich

From: Virgilio, Rosetta
Sent: Monday, March 14, 2011 10:58 PM
To: Rivera, Alison; LIA04 Hoc
Subject: Re: Operations Center coverage for State Liaison Function as of 10 pm 3/14

OK then - I'm fine with Thurs 3/17 7-3

Sent from an NRC Blackberry
Rosetta O. Virgilio

(b)(6)

From: Rivera, Alison
To: Virgilio, Rosetta; Turttil, Richard
Cc: LIA04 Hoc
Sent: Mon Mar 14 22:47:23 2011
Subject: RE: Operations Center coverage for State Liaison Function as of 10 pm 3/14

He did, but I changed his mind for him because we needed coverage on the 3-11 slot. If you can't cover the 7-3 on Thursday, Amanda could probably take it for you or she was willing to take 3-11 slots if Rich wanted it back. I was just trying to avoid having people need to report back in 8 hours after they finished a shift which was complicating the scheduling a little bit when you factored in childcare and other commitment constraints.

FYI - Andy also called me and I'm not sure how much support we'll get from Bill. He doesn't think he should still be on the roster and so we might only get 1-2 shifts.

From: Virgilio, Rosetta
Sent: Monday, March 14, 2011 10:36 PM
To: Rivera, Alison; Turttil, Richard
Cc: LIA04 Hoc
Subject: Re: Operations Center coverage for State Liaison Function as of 10 pm 3/14

Alison - I thought Rich signed up for Thurs 3/17 @ 7-3; unless he changed his mind?

I am good with Tues 3/22 @ 7-3 and you can put me down for Fri 3/25 @ 7-3

Sent from an NRC Blackberry
Rosetta O. Virgilio

(b)(6)

RRR/9

From: Rivera, Alison
To: Turtill, Richard; Rautzen, William; Virgilio, Rosetta; LIA04 Hoc; Noonan, Amanda; Lukes, Kim; Flannery, Cindy; Ryan, Michelle
Cc: Imboden, Andy
Sent: Mon Mar 14 22:05:54 2011
Subject: Operations Center coverage for State Liaison Function as of 10 pm 3/14

Table current as of 10 pm on Monday, March 14

Attached is the latest table, there are still many open slots, particularly evening shift next week. For next week, if someone needs to do the 3-11pm, I may be able to switch my Tuesday/Thursday shifts to the 11-7 timeslot. If everyone is okay with their timeslots on the attached, we are covered through 3 pm on Friday. Please continue to email me availability and cc: Amanda Noonan since I have the 3 pm-11pm shift tomorrow and may not be able to make changes to the table. Thanks!

From: Turtill, Richard
Sent: Monday, March 14, 2011 2:09 PM
To: Rautzen, William; Virgilio, Rosetta; LIA04 Hoc; Noonan, Amanda; Rivera, Alison; Lukes, Kim; Flannery, Cindy; Ryan, Michelle
Cc: Imboden, Andy
Subject: IMMEDIATE ACTION - Operations Center coverage for State Liaison Function
Importance: High

Bill, Rosetta, Amanda, Alison, Kim, Michelle, and Cindy:

As you are aware, the Japanese event has become high priority for NRC. Accordingly, the Ops Center is seeking coverage for all functions, including the State Liaison role, 24 hours per day, and planning out for the next 2 weeks.

Thank you Bill, Rosetta, and Amanda for your work so far.

I'll be blunt – we're looking to fill the attached table with your names. You cannot work a 12 hour shift in the Ops center, then directly report to your desk and work another 8 hours or so.

Please review the attached and **COMMUNICATE WITH ALISON (e-mail or 415-5108) TODAY** as to your availability. (Either complete the attached and/or send her e-mails... she'll figure it out.)

Alison: please contact Rautzen later today to inquire as he may be sleeping since covering the 7:00 pm to 7:00 a.m. shift from yesterday. I have his supervisor, Andy Imboden, on cc.

Thank you for your assistance and support.

I HIGHLY RECOMMEND THAT YOU VISIT WITH WHOEVER IS WORKING THAT POSITION TODAY/TOMORROW AND OBSERVE/WATCH/ASK QUESTIONS. THIS IS AN EXCELLENT OPPTY TO LEARN FROM THIS DIFFICULT AND MOST DISASTROUS EVENT.

ALSO, IF YOU ARE ABLE TO TAKE A PARTIAL SHIFT (say, 7:00 pm to 5:00 am), then yes take the shift and we'll negotiate amongst ourselves.

Rich

From: ET07 Hoc
Sent: Tuesday, March 15, 2011 6:35 PM
To: Marshall, Jane
Subject: RE: Important: Please provide to ET Director

Thanks

From: Marshall, Jane
Sent: Tuesday, March 15, 2011 6:34 PM
To: ET07 Hoc
Subject: Re: Important: Please provide to ET Director

Yep- all done
Sent from my NRC Blackberry

From: ET07 Hoc
To: Marshall, Jane
Sent: Tue Mar 15 18:29:41 2011
Subject: FW: Important: Please provide to ET Director

Jane did you respond to this?

From: HOO Hoc
Sent: Tuesday, March 15, 2011 6:07 PM
To: ET07 Hoc
Subject: FW: Important: Please provide to ET Director

For your action.

From: Coggins, Angela
Sent: Tuesday, March 15, 2011 6:04 PM
To: HOO Hoc
Cc: Warren, Roberta; Batkin, Joshua; Bradford, Anna; Pearson, Laura
Subject: Important: Please provide to ET Director

Can you make sure the ET Director is prepared to participate and has RSVP'd to this? Thanks!

Angela B. Coggins
Policy Director
Office of Chairman Gregory B. Jaczko
U.S. Nuclear Regulatory Commission
301-415-1828/angela.coggins@nrc.gov

From: Landau, Zachary L. [SMTP:ZACHARY L. LANDAU@NSS.EOP.GOV]
Sent: Tuesday, March 15, 2011 5:17:17 PM
To: Bader, Jeffrey A.; Reed, Richard A.
Cc: Avery, Heidi E.; Kern, Dab; Kamoie, Brian E.; Landau, Zachary L.
Subject: Assistant Secretary Level SVTC on Japan Earthquake - March 16, 2011 - 8:00-9:00am
Auto forwarded by a Rule

RRR/10

Good Afternoon,

Richard Reed and AMB Jeff Bader will chair an Interagency Policy Committee SVTC tomorrow, March 16, from 8:00am-9:00am. An invitation list is below and an agenda is attached. **Please RSVP** to me at zlandau@nss.eop.gov with the name of your Assistant Secretary-level participant to me by COB today. If you do not have SVTC capability and need to participate in person, please send me the full name, social security number, and date of birth of your attendee **by 9:00pm tonight**. Due to very limited seating in the Situation Room, we will not be able to accommodate "+1" requests. Please ask your technical staff to reach out to the Situation Room directly for SVTC connections at 202-456-9451.

Invitees:

OVP
State
OSD
Treasury
DOE
HHS
DOT
Commerce
VA
DHS
JCS
EPA
USNORTHCOM
USPACOM
FEMA
USAID
NOAA
OSTP
USGS
NRC
NNSA
OPM
EMB Tokyo
OMB

NSS – Please RSVP

#OVP (Cashin)
#Legislative (Terrell, Stoneman)
#Asia (Bader, Russel)
#Defense (Wormuth, Zerr)
#DevDem (Smith, Lowry)
#MultiLat(Power)
#Intecon (Goodman)
#NonPro (Bentz)
#Press (Nick Shapiro, Bob Jensen)
#Resilience (Reed, Kern, Tribble)
#StratPlan (Chollet)

V/r,
Zach

Zach Landau
Resilience Directorate
National Security Staff
(o) 202-456-2494
(c) 202-579-6363

Japanese Earthquake and Pacific Tsunami Response
IPC-Level SVTC

DATE: March 16, 2011
LOCATION: White House Situation Room
TIME: 8:00 - 9:00 a.m.

AGENDA

- I. Introduction/Update on Due-Outs NSS
- II. Brief Seismic and Weather Update USGS/NOAA
- III. Nuclear Reactor Update NRC/DOE
- IV. Humanitarian Response Update USAID/DOD
- V. Economic Impact Treasury
- VI. Next Steps/Summary..... NSS

From: HOO Hoc
Sent: Wednesday, March 16, 2011 10:34 AM
To: RST01 Hoc; PMT01 Hoc; ET07 Hoc; LIA01 Hoc; LIA02 Hoc; LIA04 Hoc; LIA07 Hoc; LIA11 Hoc; LIA12 Hoc; Gott, William; Marshall, Jane; McDermott, Brian; Morris, Scott; Thorp, John
Subject: FW: 2200 SPEEDI Data (Unzipped)
Attachments: FUKUSHIMA1 air doseüi00-01hüj.gif; FUKUSHIMA1 air doseüi22-23hüj.gif; FUKUSHIMA1 wind(22hüj.gif; FUKUSHIMA1 air concentrationüi23-00hüj.gif; FUKUSHIMA1 air concentrationüi00-01hüj.gif; FUKUSHIMA1 air concentrationüi22-23hüj.gif; FUKUSHIMA1 air doseüi23-00hüj.gif

FYI

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

From: JapanEmbassy, TaskForce [mailto:JapanEmbassyTaskForce@state.gov]
Sent: Wednesday, March 16, 2011 10:30 AM

To: (b)(6)

(b)(6)

Subject: 2200 SPEEDI Data (Unzipped)

2200 SPEEDI Data.

SBU

This email is UNCLASSIFIED

Jerome Ryan
Political Officer
U.S. Embassy Tokyo
1-10-5, Akasaka 1-Chome, Minato-Ku, Tokyo 107
tel:(81)(03)3224-5343
fax:(81)(03)3224-5322
<http://japan.usembassy.gov/>

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

From: nustec [mailto:spd01@nustec.or.jp]
Sent: Wednesday, March 16, 2011 10:34 PM

To: (b)(6)

(b)(6)

Subject: 22時SPEEDI単位量放出図形イメージの送付

RRPH

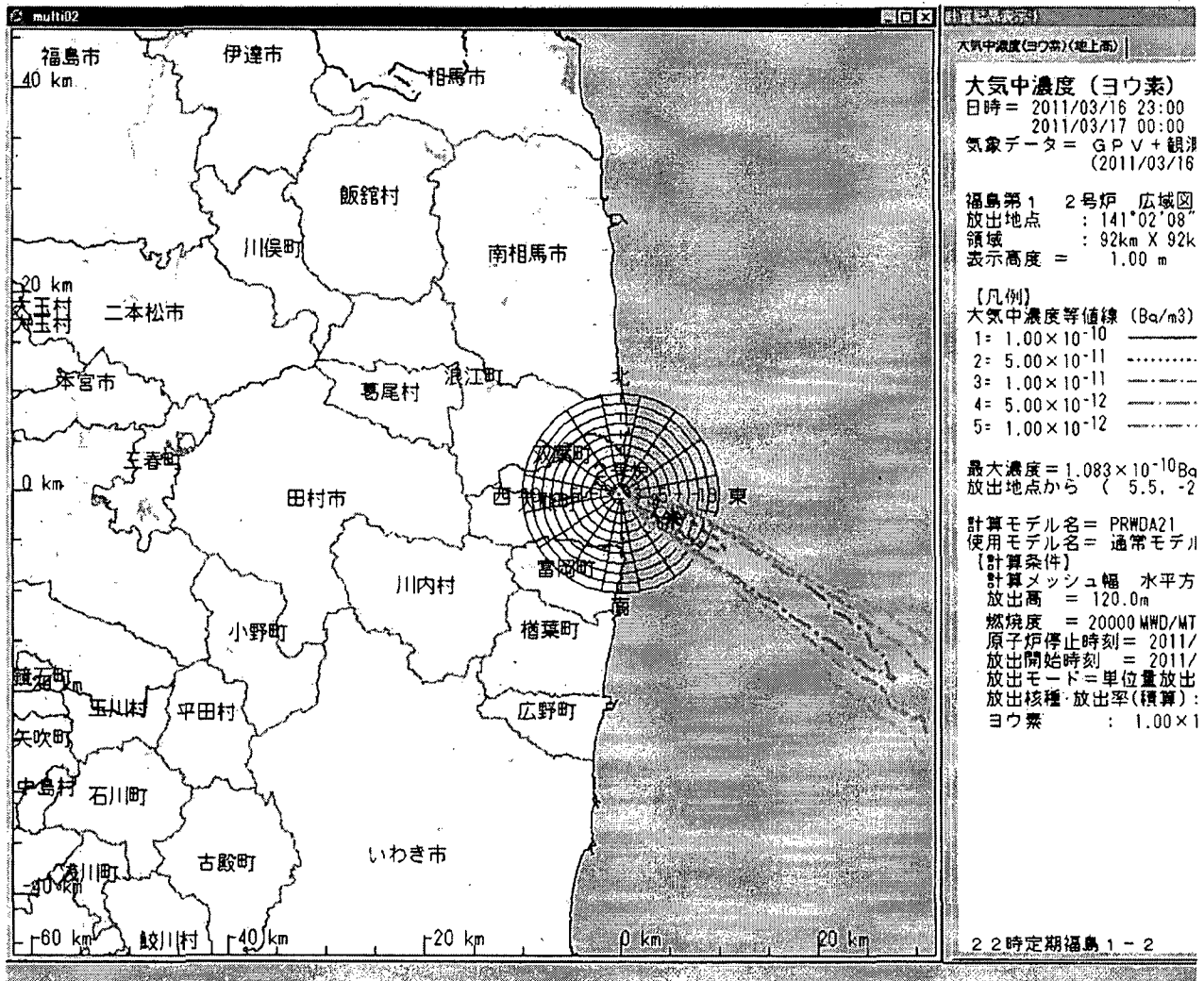
関係者各位

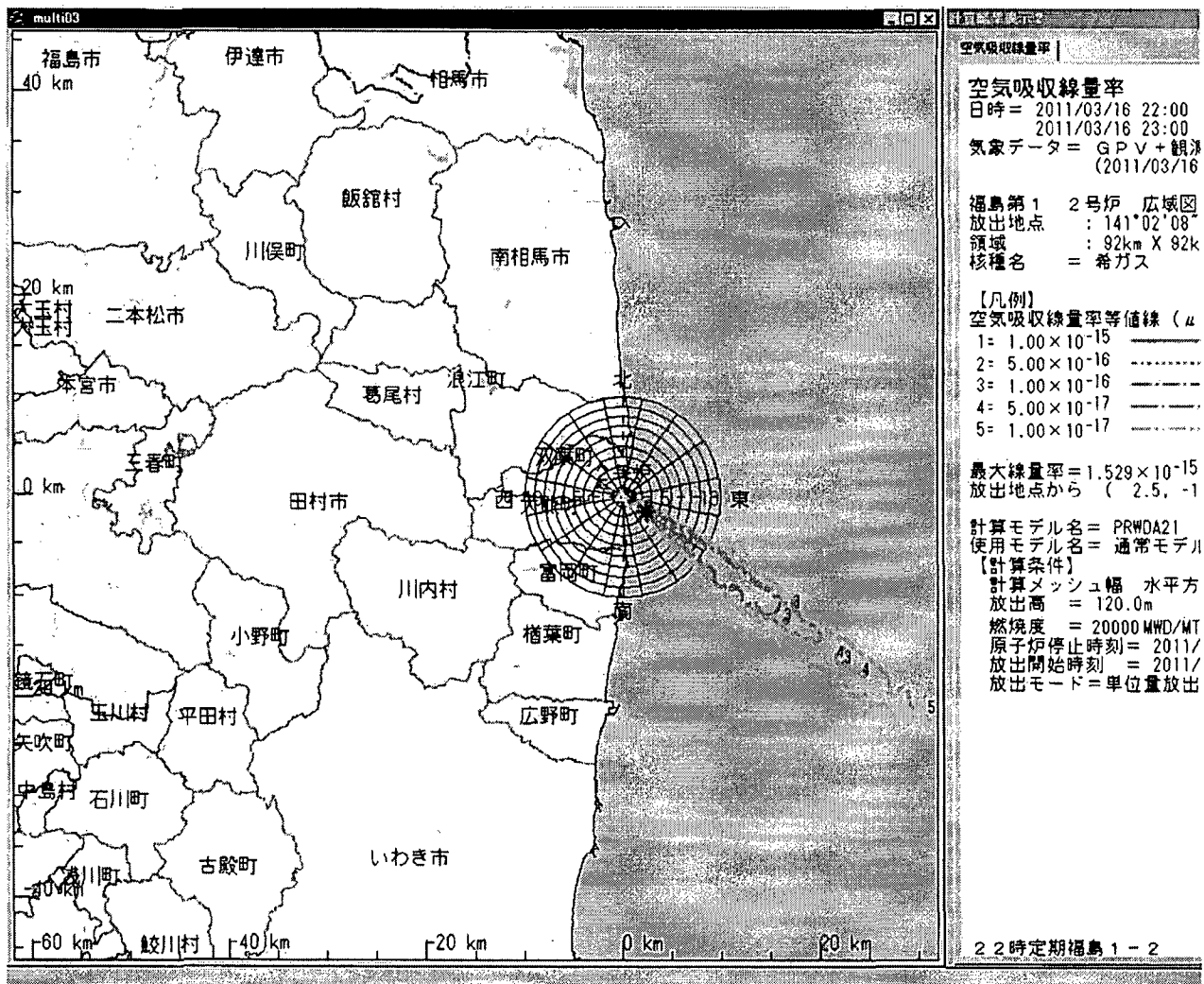
お世話になっております。

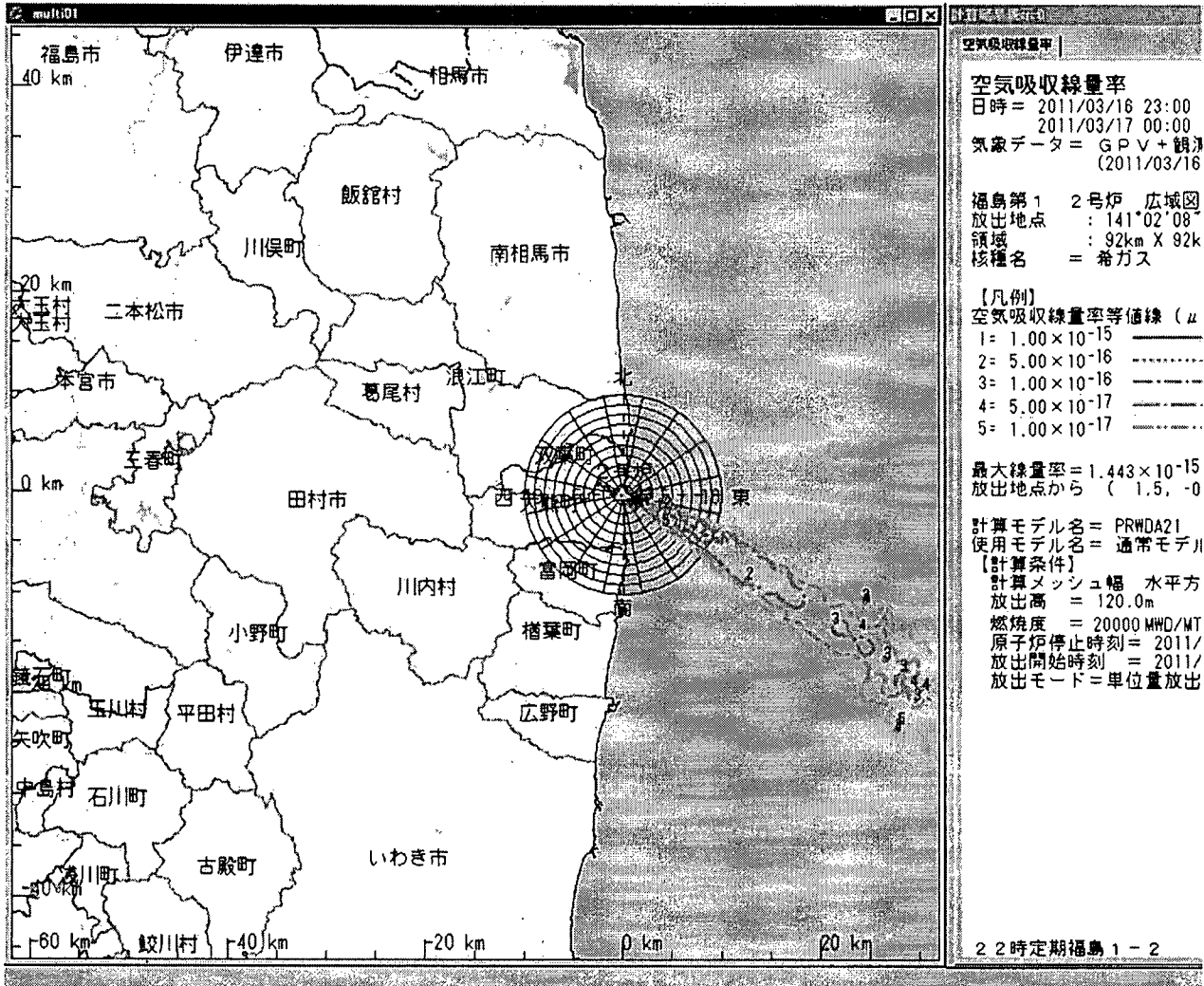
原子力安全技術センター 水野です。

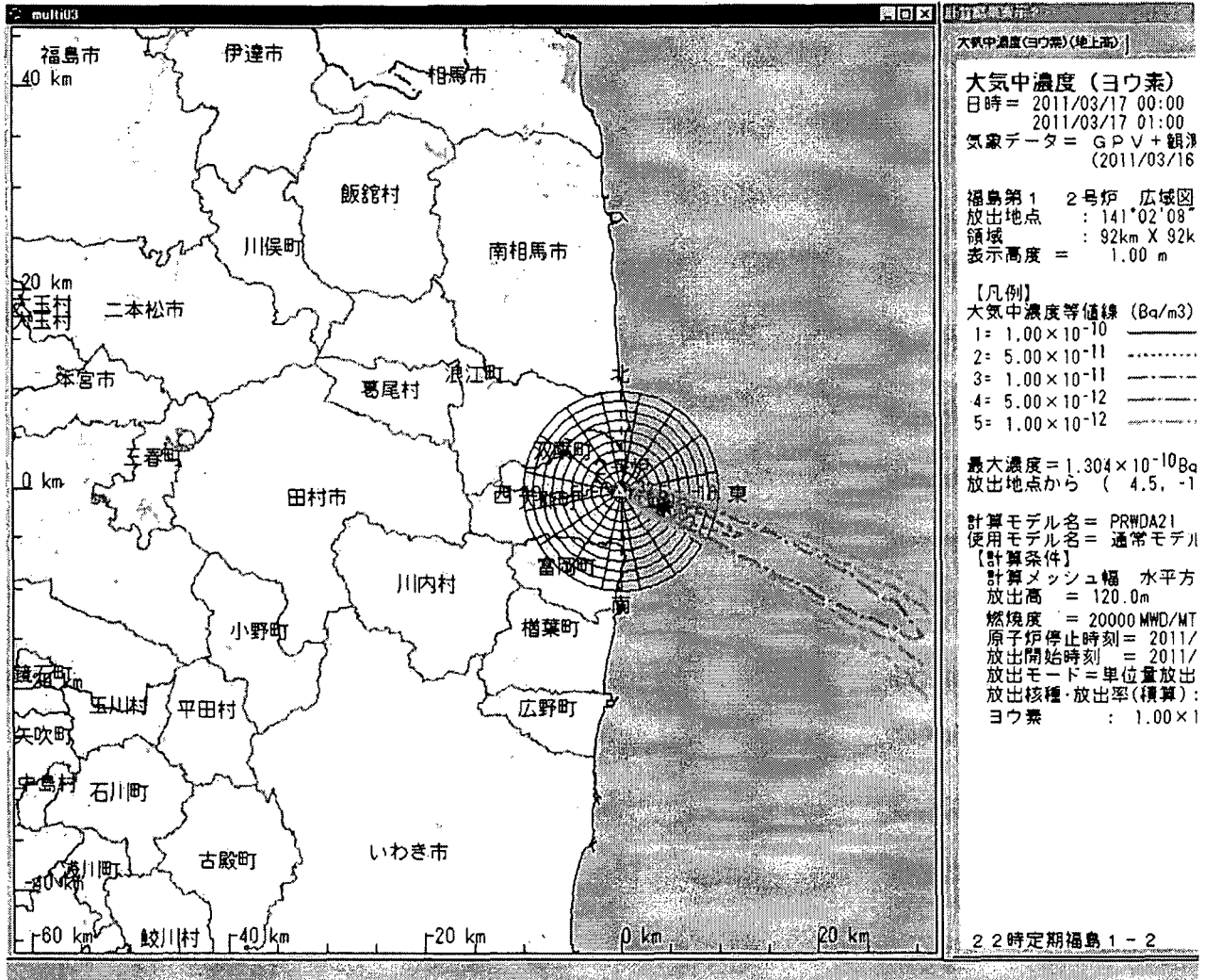
3/16 22時のSPEEDI単位量放出図形のイメージデータを送付致します。

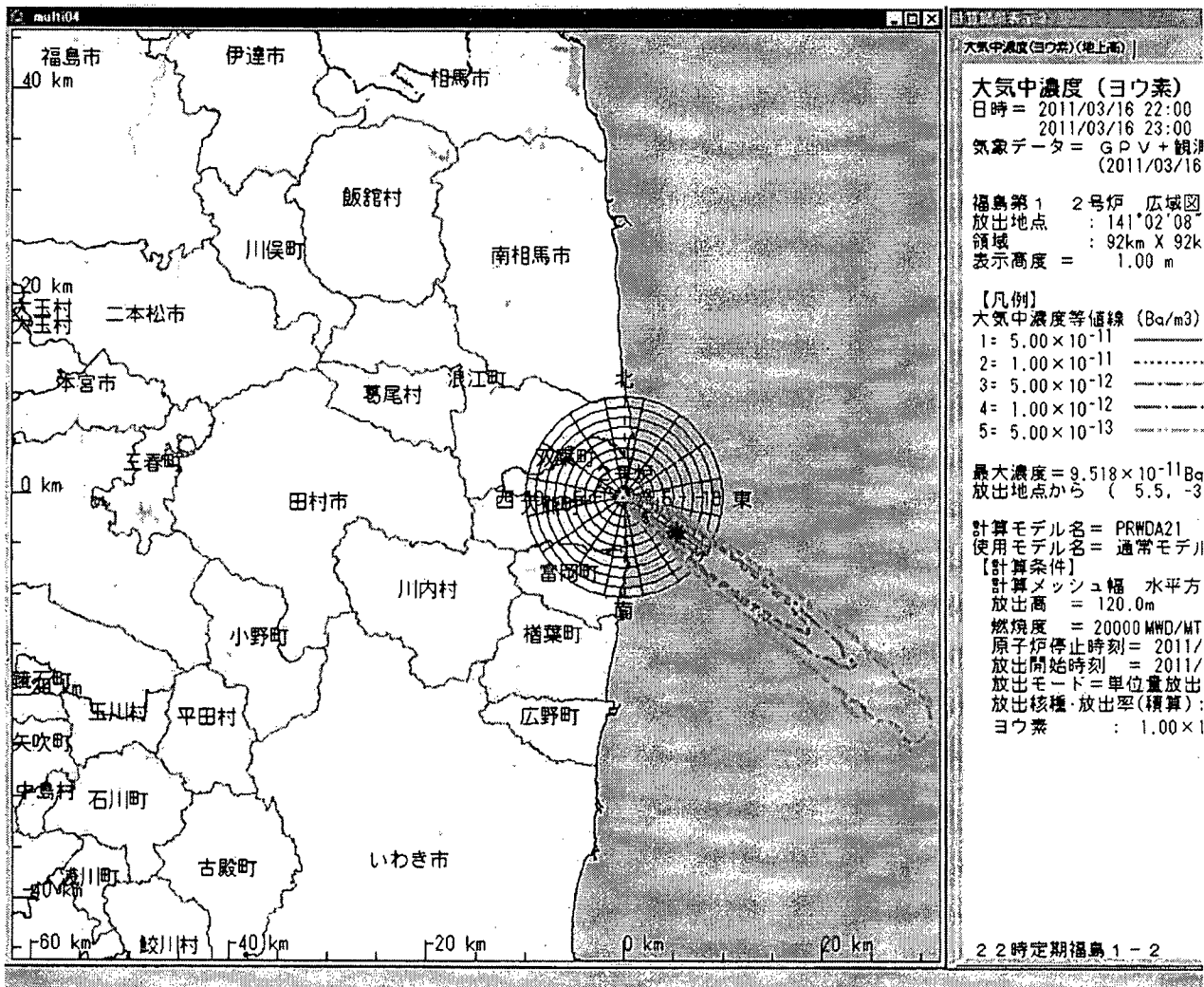
ご確認のほど、よろしくお願い致します。

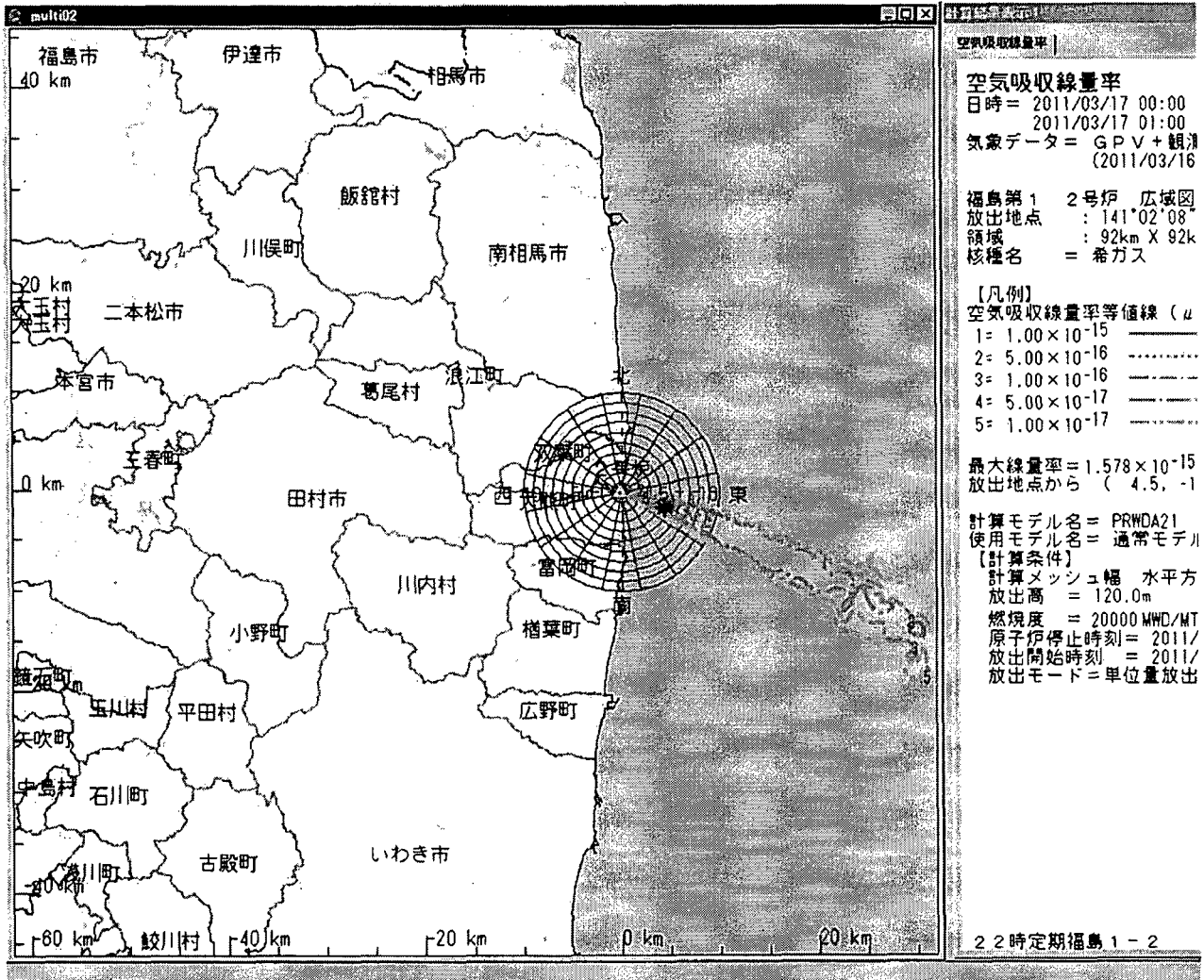












From: HOO Hoc
Sent: Wednesday, March 16, 2011 8:49 AM
To: PMT01 Hoc; RST01 Hoc; LIA01 Hoc; LIA02 Hoc; LIA04 Hoc; LIA07 Hoc; LIA11 Hoc; LIA12 Hoc; Gott, William; Marshall, Jane; McDermott, Brian; Morris, Scott; Thorp, John
Subject: FW: 21:00 SPEEDI Data
Attachments: FUKUSHIMA1 21h.zip

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.gov *Red*

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

From: JapanEmbassy, TaskForce [mailto:JapanEmbassyTaskForce@state.gov]
Sent: Wednesday, March 16, 2011 8:47 AM

To: (b)(6)

(b)(6)

Subject: 21:00 SPEEDI Data

Attached please find 21:00 SPEEDI Data.

SBU

This email is UNCLASSIFIED

Naomi Walcott
Emergency Action Officer
Japan Emergency Command Center
U.S. Embassy Tokyo

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

From: nustec [mailto:spd01@nustec.or.jp]
Sent: Wednesday, March 16, 2011 9:27 PM

To: (b)(6)

(b)(6)

RRR/12

(b)(6)

Subject: 21時SPEEDI単位量放出図形イメージの送付

関係者各位

お世話になっております。

原子力安全技術センター 水野です。

3/16 21時のSPEEDI単位量放出図形のイメージデータを送付致します。

ご確認のほど、よろしくお願い致します。

Attachment FUKUSHIMA1 21h.zip(454090 bytes) cannot be converted to PDF format.

Attachment FUKUSHIMA1 21h.zip(454090 bytes) cannot be converted to PDF format.

C

From: OST02 HOC
Sent: Wednesday, April 06, 2011 8:40 AM
To: RST01 Hoc; PMT01 Hoc; PMT02 Hoc; PMT11 Hoc
Subject: FW: Radiation data by MEXT
Attachments: (Japanese)20110406_20.pdf; (Japanese) 20110406_21.pdf; (Japanese)20110406_22.pdf;
(Japanese) 20110406_23.pdf; (Japanese) 20110406_24.pdf; (unofficial)
(Japanese)20110406_20with lat_long.pdf

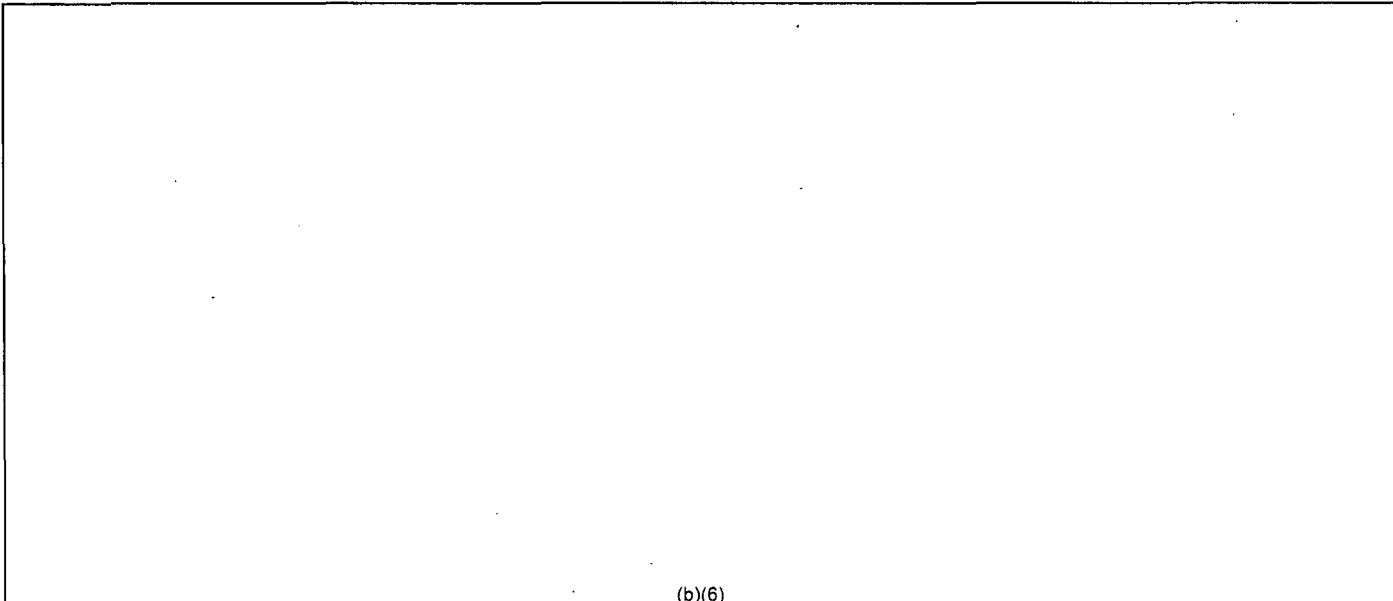
-----Original Message-----

From: HOO Hoc
Sent: Wednesday, April 06, 2011 8:34 AM
To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC
Subject: FW: Radiation data by MEXT

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

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

From: eda@mext.go.jp [mailto:eda@mext.go.jp]
Sent: Wednesday, April 06, 2011 8:25 AM



(b)(6)

ERR/13

(b)(6)

Subject: Radiation data by MEXT

Dear Sir,

Please see attached the document.

Sincerely yours,

Kei EDA

EOC, Ministry of Education, Culture, Sports, Science & Technology (MEXT), Japan

福島第一原子力発電所の20km以遠のモニタリング結果について

平成23年4月6日 19時00分現在
文 部 科 学 省

○文部科学省が集計した結果 注)太下線データが今回追加分

- *1 GM(ガイガーミュラー計測管)における値
- *2 電離箱における値
- *3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- *4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置			測定位置 の備考	天候	実施者
			N	E	値			
測定エリア【1】(約60km北西)	4月6日14時58分	1.5 ^{*2}	37°	44'	12.6''	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【1】(約60km北西)	4月6日8時45分	1.4 ^{*2}	37°	44'	12.6''	20110330 確認	降雨なし	文部科学省
測定エリア【2】(約55km北西)	4月6日9時12分	2.5 ^{*2}	37°	41'	12.7''	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【3】(約45km北西)	4月6日10時51分	3.9 ^{*2}	37°	45'	40.5''	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【4】(約50km北西)	4月6日9時34分	1.2 ^{*2}	37°	39'	30.0''	20110330 確認	降雨なし	文部科学省
測定エリア【5】(約45km北)	4月6日11時36分	0.8 ^{*2}	37°	47'	17.4''	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【6】(約35km北)	4月6日11時54分	1.0 ^{*2}	37°	42'	09.5''	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【7】(約35km北)	4月6日12時03分	0.8 ^{*2}	37°	41'	49.0''	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【10】(約40km北西)	4月6日9時48分	1.1 ^{*2}	37°	36'	02.9''	20110403 確認	降雨なし	文部科学省
測定エリア【11】(約40km北西)	4月6日9時56分	1.5 ^{*2}	37°	34'	00.0''	20110330 確認	降雨なし	文部科学省
測定エリア【12】(約40km西)	4月6日11時23分	0.3 ^{*2}	37°	25'	53.6''	20110330 確認	降雨なし	文部科学省
測定エリア【13】(約40km西)	4月6日12時25分	0.5 ^{*2}	37°	26'	21.5''	20110330 確認	降雨なし	文部科学省
測定エリア【14】(約35km西)	4月6日12時32分	0.2 ^{*2}	37°	26'	09.4''	20110330 確認	降雨なし	文部科学省
測定エリア【15】(約35km西)	4月6日12時41分	1.0 ^{*2}	37°	26'	54.0''	20110330 確認	降雨なし	文部科学省
測定エリア【20】(約45km北西)	4月6日10時25分	0.7 ^{*2}	37°	29'	24.2''	20110330 確認	降雨なし	文部科学省
測定エリア【21】(約30km西北西)	4月6日10時52分	3.0 ^{*2}	37°	30'	28.7''	20110330 確認	降雨なし	文部科学省

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置	測定位置 の備考	天候	実施者
測定エリア【22】(約35km西北西)	4月6日10時41分	0.5 ^{*2}	N: 37° 30' 41.3" E: 140° 39' 28.8"	20110330 確認	降雨なし	文部科学省
測定エリア【23】(約35km西北西)	4月6日10時33分	0.9 ^{*2}	N: 37° 30' 18.9" E: 140° 34' 40.6"	20110330 確認	降雨なし	文部科学省
測定エリア【31】(約30km西北西)	4月6日11時37分	10.9 ^{*2}	N: 37° 33' 45.0" E: 140° 44' 49.9"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【32】(約30km北西)	4月6日11時58分	25.8 ^{*2}	N: 37° 35' 42.0" E: 140° 45' 14.5"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【33】(約30km北西)	4月6日12時17分	13.2 ^{*2}	N: 37° 36' 34.6" E: 140° 45' 09.1"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【34】(約30km北西)	4月6日14時00分	6.8 ^{*2}	N: 37° 33' 03.2" E: 140° 44' 25.0"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【36】(約40km北西)	4月6日11時03分	4.1 ^{*2}	N: 37° 36' 20.6" E: 140° 37' 58.9"	20110331 確認	降雨なし	日本原子力研究開発機構
測定エリア【37】(約50km北西)	4月6日10時38分	3.7 ^{*2}	N: 37° 45' 06.7" E: 140° 41' 29.2"	20110402 確認	降雨なし	日本原子力研究開発機構
測定エリア【38】(約35km南)	4月6日14時22分	0.7 ^{*2}	N: 37° 07' 18.4" E: 140° 57' 03.8"	20110401 確認	降雨なし	文部科学省
測定エリア【39】(約45km北)	4月6日11時15分	0.3 ^{*2}	N: 37° 45' 52.7" E: 140° 51' 47.1"	20110402 確認	降雨なし	日本原子力研究開発機構
測定エリア【71】(約25km南)	4月6日15時14分	1.4 ^{*2}	N: 37° 12' 32.4" E: 140° 57' 08.2"	20110323 確認	降雨なし	文部科学省
測定エリア【71】(約25km南)	4月6日8時15分	1.1 ^{*2}	N: 37° 12' 32.4" E: 140° 57' 08.2"	20110323 確認	降雨なし	警察(NBC対策部隊)
測定エリア【72】(約30km南)	4月6日14時55分	1.5 ^{*2}			降雨なし	文部科学省
測定エリア【72】(約30km南)	4月6日8時50分	0.9 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【73】(約35km南)	4月6日14時36分	1.4 ^{*2}			降雨なし	文部科学省
測定エリア【73】(約35km南)	4月6日9時10分	0.4 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【74】(約35km南)	4月6日14時03分	0.4 ^{*2}			降雨なし	文部科学省
測定エリア【74】(約35km南)	4月6日7時21分	0.3 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【75】(約45km南)	4月6日13時40分	0.6 ^{*2}			降雨なし	文部科学省
測定エリア【75】(約45km南)	4月6日6時58分	0.4 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【76】(約20km南西)	4月6日13時39分	0.7 ^{*2}	N: 37° 20' 25.3" E: 140° 48' 25.7"	20110402 確認	降雨なし	文部科学省

- *1 GM(ガイガーミュラー計測管)における値
- *2 電離箱における値
- *3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- *4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置	測定位置 の備考	天候	実施者
測定エリア【76】(約20km南西)	4月6日12時22分	0.3 ^{*2}	N: 37° 20' 25.3" E: 140° 48' 25.7"	20110402 確認	降雨なし	警察(NBC対策部隊)
測定エリア【77】(約25km南西)	4月6日12時01分	1.2 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【78】(約45km北西)	4月6日7時48分	1.1 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【79】(約30km北西)	4月6日13時21分	15.5 ^{*2}			降雨なし	日本原子力研究開発機構
測定エリア【79】(約30km北西)	4月6日9時59分	13.6 ^{*2}	N: 37° 33' 22.2" E: 140° 45' 46.9"	20110323 確認	降雨なし	警察(NBC対策部隊)
測定エリア【80】(約25km北)	4月6日13時08分	0.9 ^{*2}	N: 37° 33' 22.2" E: 140° 45' 46.9"	20110323 確認	降雨なし	日本原子力研究開発機構
測定エリア【80】(約25km北)	4月6日11時40分	0.2 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【81】(約30km北西)	4月6日8時39分	28.3 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【83】(約20km北西)	4月6日13時42分	58.8 ^{*2}			降雨なし	日本原子力研究開発機構
測定エリア【83】(約20km北西)	4月6日10時22分	52.5 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【84】(約40km南西)	4月6日13時06分	0.5 ^{*2}	N: 37° 10' 20.0" E: 140° 43' 30.7"	20110330 確認	降雨なし	文部科学省
測定エリア【85】(約60km北西)	4月6日14時00分	0.6 ^{*2}	N: 37° 42' 45.0" E: 140° 22' 59.0"	20110330 確認	降雨なし	防衛省
測定エリア【85】(約60km北西)	4月6日 6時00分	0.6 ^{*2}	N: 37° 42' 45.0" E: 140° 22' 59.0"	20110330 確認	降雨なし	防衛省
測定エリア【86】(約55km西)	4月6日 14時00分	1.1 ^{*2}	N: 37° 23' 57.0" E: 140° 19' 35.0"	20110330 確認	降雨なし	防衛省
測定エリア【86】(約55km西)	4月6日 6時00分	1.0 ^{*2}	N: 37° 23' 57.0" E: 140° 19' 35.0"	20110330 確認	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月6日 14時00分	1.3 ^{*2}	N: 37° 21' 42.0" E: 140° 42' 54.0"	20110330 確認	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月6日 6時00分	1.0 ^{*2}	N: 37° 21' 42.0" E: 140° 42' 54.0"	20110330 確認	降雨なし	防衛省

福島第一原子力発電所の20km以遠のモニタリング結果について

平成23年4月6日 19時00分現在
文 部 科 学 省

○文部科学省が集計した結果 注)太下線データが今回追加分

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【1】 (約60km北西)	4月6日14時58分	1.5 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【1】 (約60km北西)	4月6日8時45分	1.4 ^{*2}	降雨なし	文部科学省
測定エリア【2】 (約55km北西)	4月6日9時12分	2.5 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【3】 (約45km北西)	4月6日10時51分	3.9 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【4】 (約50km北西)	4月6日9時34分	1.2 ^{*2}	降雨なし	文部科学省
測定エリア【5】 (約45km北)	4月6日11時36分	0.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【6】 (約35km北)	4月6日11時54分	1.0 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【7】 (約35km北)	4月6日12時03分	0.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【10】 (約40km北西)	4月6日9時48分	1.1 ^{*2}	降雨なし	文部科学省
測定エリア【11】 (約40km北西)	4月6日9時56分	1.5 ^{*2}	降雨なし	文部科学省
測定エリア【12】 (約40km西)	4月6日11時23分	0.3 ^{*2}	降雨なし	文部科学省
測定エリア【13】 (約40km西)	4月6日12時25分	0.5 ^{*2}	降雨なし	文部科学省
測定エリア【14】 (約35km西)	4月6日12時32分	0.2 ^{*2}	降雨なし	文部科学省
測定エリア【15】 (約35km西)	4月6日12時41分	1.0 ^{*2}	降雨なし	文部科学省
測定エリア【20】 (約45km北西)	4月6日10時25分	0.7 ^{*2}	降雨なし	文部科学省
測定エリア【21】 (約30km西北西)	4月6日10時52分	3.0 ^{*2}	降雨なし	文部科学省

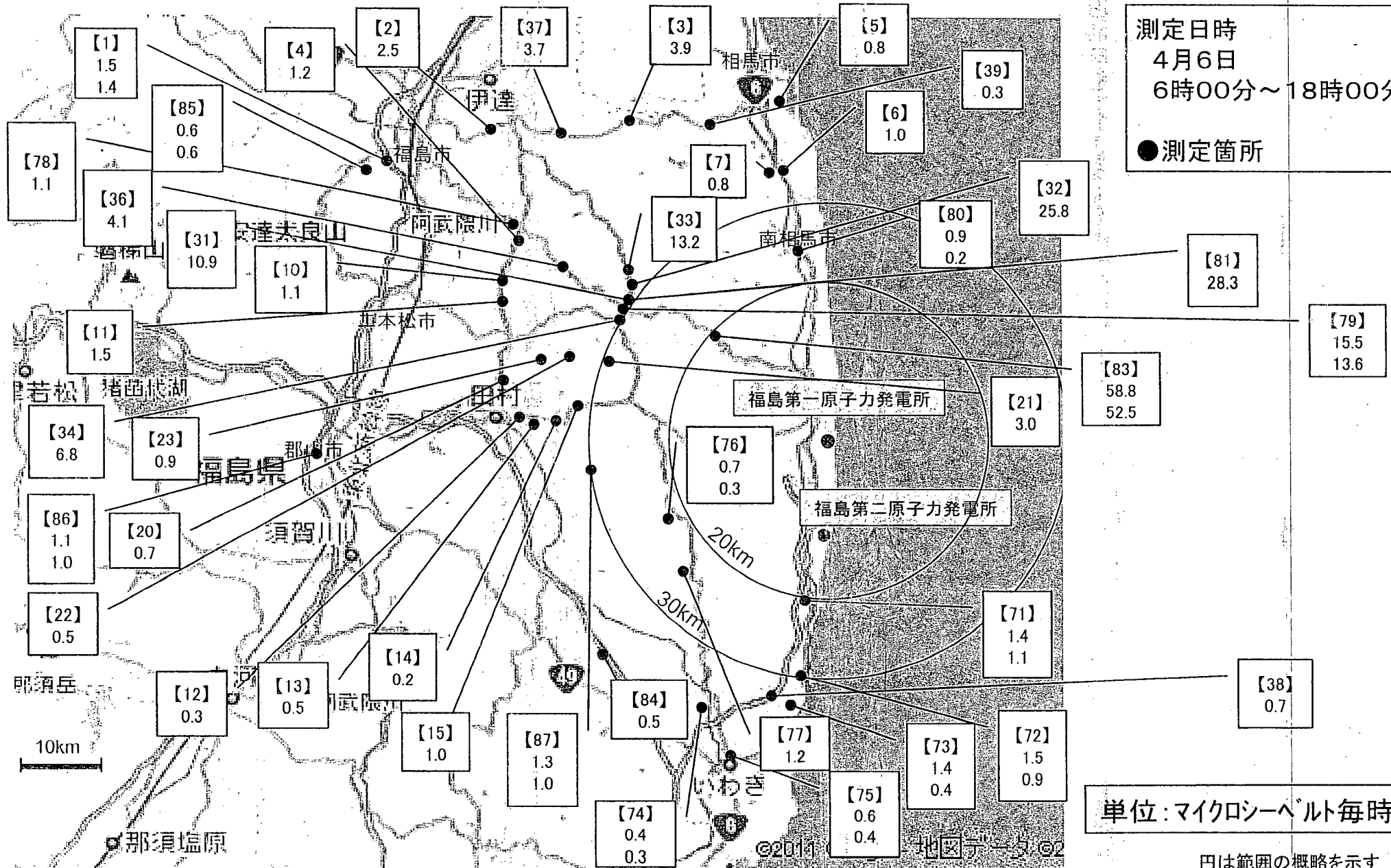
- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【22】(約35km西北西)	4月6日10時41分	0.5 ^{*2}	降雨なし	文部科学省
測定エリア【23】(約35km西北西)	4月6日10時33分	0.9 ^{*2}	降雨なし	文部科学省
測定エリア【31】(約30km西北西)	4月6日11時37分	10.9 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【32】(約30km北西)	4月6日11時58分	25.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【33】(約30km北西)	4月6日12時17分	13.2 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【34】(約30km北西)	4月6日14時00分	6.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【36】(約40km北西)	4月6日11時03分	4.1 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【37】(約50km北西)	4月6日10時38分	3.7 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【38】(約35km南)	4月6日14時22分	0.7 ^{*2}	降雨なし	文部科学省
測定エリア【39】(約45km北)	4月6日11時15分	0.3 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【71】(約25km南)	4月6日15時14分	1.4 ^{*2}	降雨なし	文部科学省
測定エリア【71】(約25km南)	4月6日8時15分	1.1 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【72】(約30km南)	4月6日14時55分	1.5 ^{*2}	降雨なし	文部科学省
測定エリア【72】(約30km南)	4月6日8時50分	0.9 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【73】(約35km南)	4月6日14時36分	1.4 ^{*2}	降雨なし	文部科学省
測定エリア【73】(約35km南)	4月6日9時10分	0.4 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【74】(約35km南)	4月6日14時03分	0.4 ^{*2}	降雨なし	文部科学省
測定エリア【74】(約35km南)	4月6日7時21分	0.3 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【75】(約45km南)	4月6日13時40分	0.6 ^{*2}	降雨なし	文部科学省
測定エリア【75】(約45km南)	4月6日6時58分	0.4 ^{*2}	降雨なし	警察(NBC対策部隊)

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
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- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【76】(約20km南西)	4月6日13時39分	0.7 ^{*2}	降雨なし	文部科学省
測定エリア【76】(約20km南西)	4月6日12時22分	0.3 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【77】(約25km南西)	4月6日12時01分	1.2 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【78】(約45km北西)	4月6日7時48分	1.1 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【79】(約30km北西)	4月6日13時21分	15.5 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【79】(約30km北西)	4月6日9時59分	13.6 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【80】(約25km北)	4月6日13時08分	0.9 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【80】(約25km北)	4月6日11時40分	0.2 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【81】(約30km北西)	4月6日8時39分	28.3 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【83】(約20km北西)	4月6日13時42分	58.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【83】(約20km北西)	4月6日10時22分	52.5 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【84】(約40km南西)	4月6日13時06分	0.5 ^{*2}	降雨なし	文部科学省
測定エリア【85】(約60km北西)	4月6日14時00分	0.6 ^{*2}	降雨なし	防衛省
測定エリア【85】(約60km北西)	4月6日 6時00分	0.6 ^{*2}	降雨なし	防衛省
測定エリア【86】(約55km西)	4月6日 14時00分	1.1 ^{*2}	降雨なし	防衛省
測定エリア【86】(約55km西)	4月6日 6時00分	1.0 ^{*2}	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月6日 14時00分	1.3 ^{*2}	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月6日 6時00分	1.0 ^{*2}	降雨なし	防衛省

福島第一原子力発電所周辺のモニタリング結果



	都道府県名	定時降下物		
		I-131	Cs-137	備考
1	北海道(札幌市)	不検出	不検出	
2	青森県(青森市)	不検出	不検出	
3	岩手県(盛岡市)	不検出	不検出	
4	宮城県	-	-	震災被害によって計測不能
5	秋田県(秋田市)	不検出	不検出	
6	山形県(山形市)	不検出	19	
7	福島県(福島市)	-	-	現在測定中
8	茨城県(ひたちなか市)	10	不検出	
9	栃木県(宇都宮市)	-	-	現在測定中
10	群馬県(前橋市)	3.4	5.6	
11	埼玉県(さいたま市)	5.3	11	
12	千葉県(市原市)	不検出	10	
13	東京都(新宿区)	8.2	5.6	
14	神奈川県(茅ヶ崎市)	不検出	不検出	
15	新潟県(新潟市)	不検出	不検出	
16	富山県(射水市)	不検出	不検出	
17	石川県(金沢市)	不検出	不検出	
18	福井県(福井市)	不検出	不検出	
19	山梨県(甲府市)	不検出	4.9	
20	長野県(長野市)	不検出	不検出	
21	岐阜県(各務原市)	不検出	不検出	
22	静岡県(御前崎市)	不検出	不検出	
23	愛知県(名古屋市)	不検出	不検出	
24	三重県(四日市市)	不検出	不検出	
25	滋賀県(大津市)	不検出	不検出	
26	京都府(京都市)	不検出	不検出	
27	大阪府(大阪市)	不検出	不検出	
28	兵庫県(神戸市)	不検出	不検出	
29	奈良県(奈良市)	不検出	不検出	
30	和歌山県(和歌山市)	不検出	不検出	
31	鳥取県(東伯郡)	不検出	不検出	
32	島根県(松江市)	不検出	不検出	
33	岡山県(岡山市)	不検出	不検出	
34	広島県(広島市)	不検出	不検出	
35	山口県(山口市)	不検出	不検出	
36	徳島県(徳島市)	不検出	不検出	
37	香川県(高松市)	不検出	不検出	
38	愛媛県(八幡浜市)	不検出	不検出	
39	高知県(高知市)	不検出	不検出	
40	福岡県(太宰府市)	不検出	不検出	
41	佐賀県(佐賀市)	不検出	不検出	
42	長崎県(大村市)	不検出	不検出	
43	熊本県(宇土市)	不検出	不検出	
44	大分県(大分市)	不検出	不検出	
45	宮崎県(宮崎市)	2.5	不検出	
46	鹿児島県(鹿児島市)	不検出	不検出	
47	沖縄県(南城市)	-	-	機器トラブル 調整中

*文部科学省が各都道府県等からの報告に基づき作成

環境放射能水準調査結果

H23.4.6 19:00

($\mu\text{Sv/h}$ (マイクロシーベルト毎時))

	都道府県名	4月5日							4月6日							過去の平常値の範囲
		17-18	18-19	19-20	20-21	21-22	22-23	23-24	0-1	1-2	2-3	3-4	4-5	5-6	6-7	
1	北海道(札幌市)	0.029	0.028	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.02~0.105
2	青森県(青森市)	0.026	0.026	0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.017~0.102
3	岩手県(盛岡市)	0.024	0.025	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.014~0.084
4	宮城県(仙台市)	0.080	0.079	0.078	0.077	0.077	0.076	0.076	0.071	0.071	0.071	0.071	0.070	0.071	0.071	0.0176~0.0513
5	秋田県(秋田市)	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.037	0.022~0.086
6	山形県(山形市)	0.060	0.060	0.061	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.061	0.025~0.082
7	福島県(福島市)	2.500	2.500	2.400	2.400	2.400	2.500	2.400	2.400	2.400	2.400	2.400	2.500	2.400	2.400	0.037~0.046
8	茨城県(水戸市)	0.164	0.163	0.163	0.163	0.163	0.163	0.163	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.036~0.056
9	栃木県(宇都宮市)	0.080	0.080	0.080	0.080	0.080	0.079	0.080	0.081	0.081	0.081	0.081	0.081	0.082	0.082	0.030~0.067
10	群馬県(前橋市)	0.045	0.046	0.045	0.046	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.047	0.017~0.045
11	埼玉県(さいたま市)	0.070	0.069	0.069	0.069	0.069	0.070	0.069	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.031~0.060
12	千葉県(市原市)	0.061	0.062	0.061	0.061	0.061	0.061	0.062	0.063	0.063	0.063	0.062	0.063	0.063	0.063	0.022~0.044
13	東京都(新宿区)	0.088	0.087	0.087	0.087	0.087	0.087	0.087	0.089	0.089	0.089	0.089	0.088	0.089	0.089	0.028~0.079
14	神奈川県(茅ヶ崎市)	0.061	0.061	0.062	0.062	0.062	0.062	0.062	0.063	0.063	0.063	0.063	0.062	0.063	0.063	0.035~0.069
15	新潟県(新潟市)	0.046	0.046	0.046	0.046	0.046	0.047	0.047	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.031~0.153
16	富山県(射水市)	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.029~0.147
17	石川県(金沢市)	0.047	0.047	0.047	0.046	0.047	0.047	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.0291~0.1275
18	福井県(福井市)	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.032~0.097
19	山梨県(甲府市)	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.043	0.043	0.043	0.044	0.043	0.044	0.044	0.040~0.064
20	長野県(長野市)	0.043	0.044	0.043	0.043	0.043	0.044	0.044	0.045	0.045	0.046	0.045	0.046	0.045	0.046	0.0299~0.0974
21	岐阜県(各務原市)	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.061	0.061	0.061	0.061	0.057~0.110
22	静岡県(静岡市)	0.037	0.036	0.037	0.037	0.037	0.038	0.038	0.037	0.038	0.039	0.038	0.039	0.039	0.040	0.0281~0.0765
23	愛知県(名古屋市)	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.035~0.074
24	三重県(四日市市)	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.0416~0.0789
25	滋賀県(大津市)	0.032	0.032	0.033	0.032	0.032	0.033	0.033	0.033	0.034	0.033	0.034	0.034	0.034	0.034	0.031~0.061
26	京都府(京都市)	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.039	0.040	0.039	0.040	0.033~0.087
27	大阪府(大阪市)	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.043	0.043	0.043	0.043	0.042~0.061
28	兵庫県(神戸市)	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035~0.076
29	奈良県(奈良市)	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.049	0.049	0.049	0.046~0.08
30	和歌山県(和歌山市)	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.031	0.032	0.032	0.032	0.033	0.033	0.033	0.031~0.056
31	鳥取県(東伯郡)	0.062	0.063	0.063	0.063	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.036~0.11
32	島根県(松江市)	0.046	0.046	0.046	0.047	0.046	0.047	0.047	0.046	0.047	0.047	0.047	0.047	0.048	0.048	0.037~0.131
33	岡山県(岡山市)	0.048	0.048	0.048	0.048	0.049	0.050	0.050	0.048	0.049	0.050	0.050	0.050	0.051	0.051	0.043~0.104
34	広島県(広島市)	0.046	0.046	0.046	0.046	0.047	0.048	0.048	0.047	0.047	0.046	0.047	0.047	0.047	0.047	0.035~0.069
35	山口県(山口市)	0.093	0.093	0.093	0.094	0.094	0.095	0.095	0.094	0.095	0.095	0.095	0.096	0.096	0.097	0.084~0.128
36	徳島県(徳島市)	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.037	0.037~0.067
37	香川県(高松市)	0.059	0.060	0.061	0.063	0.064	0.065	0.066	0.066	0.067	0.067	0.071	0.068	0.068	0.066	0.051~0.077
38	愛媛県(松山市)	0.047	0.047	0.047	0.048	0.049	0.049	0.049	0.047	0.047	0.047	0.047	0.048	0.049	0.049	0.045~0.074
39	高知県(高知市)	0.024	0.024	0.024	0.025	0.025	0.025	0.025	0.024	0.024	0.025	0.025	0.026	0.026	0.026	0.023~0.076
40	福岡県(太宰府市)	0.036	0.036	0.036	0.036	0.036	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.036	0.034~0.079
41	佐賀県(佐賀市)	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.037~0.086
42	長崎県(大村市)	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.027~0.069
43	熊本県(宇土市)	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.028	0.028	0.021~0.067
44	大分県(大分市)	0.049	0.049	0.049	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.049	0.050	0.048~0.085
45	宮崎県(宮崎市)	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.0243~0.0664
46	鹿児島県(鹿児島市)	0.034	0.034	0.035	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.0306~0.0943
47	沖縄県(うるま市)	0.021	0.021	0.021	0.021	0.021	0.020	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.0133~0.0575

*宮城県では、可搬型モニタリングポストによる測定。

*福島県では、双葉郡のモニタリングポストが避難区域に入っており、測定が困難であるため、代替地として福島市紅葉山局モニタリングポストで測定。

*島根県では、機器点検のため、4月4日17時から代替機器により測定。

*空欄は機器点検等のための欠測等

*木データは、 $1\mu\text{Gy/h}$ (マイクログレイ毎時) $=1\mu\text{Sv/h}$ (マイクロシーベルト毎時)と換算して算出

*文部科学省が各都道府県等からの報告に基づき作成

環境放射能水準調査結果

H23.4.6 19:00

($\mu\text{Sv/h}$ (マイクロシーベルト毎時))

	都道府県名	4月6日										過去の平常値の範囲
		7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	
1	北海道(札幌市)	0.028	0.028	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.028	0.02~0.105
2	青森県(青森市)	0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.017~0.102
3	岩手県(盛岡市)	0.026	0.025	0.025	0.024	0.024	0.024	0.024	0.025	0.024	0.024	0.014~0.084
4	宮城県(仙台市)	0.073	0.078	0.082	0.084	0.083	0.083	0.083	0.082	0.081	0.081	0.0176~0.0513
5	秋田県(秋田市)	0.036	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.022~0.086
6	山形県(山形市)	0.060	0.060	0.060	0.060	0.060	0.059	0.060	0.060	0.060	0.060	0.025~0.082
7	福島県(福島市)	2.500	2.400	2.400	2.400	2.400	2.400	2.400				0.037~0.046
8	茨城県(水戸市)	0.166	0.166	0.161	0.162	0.162	0.162	0.162	0.162	0.161	0.161	0.036~0.056
9	栃木県(宇都宮市)	0.082	0.081	0.079	0.079	0.078	0.079	0.078	0.078	0.078	0.078	0.030~0.067
10	群馬県(前橋市)	0.046	0.046	0.046	0.045	0.045	0.044	0.044	0.044	0.044	0.044	0.017~0.045
11	埼玉県(さいたま市)	0.071	0.071	0.070	0.069	0.069	0.069	0.069	0.069	0.068	0.068	0.031~0.060
12	千葉県(市原市)	0.062	0.062	0.061	0.061	0.061	0.060	0.060	0.060	0.060	0.060	0.022~0.044
13	東京都(新宿区)	0.089	0.089	0.089	0.088	0.088	0.088	0.088	0.087	0.087	0.087	0.028~0.075
14	神奈川県(茅ヶ崎市)	0.061	0.062	0.061	0.061	0.061	0.061	0.060	0.061	0.061	0.061	0.035~0.069
15	新潟県(新潟市)	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.031~0.153
16	富山県(射水市)	0.049	0.049	0.049	0.049	0.048	0.048	0.048	0.048	0.048	0.048	0.029~0.147
17	石川県(金沢市)	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.047	0.046	0.047	0.0291~0.1275
18	福井県(福井市)	0.047	0.047	0.046	0.045	0.045	0.044	0.044	0.044	0.044	0.044	0.032~0.097
19	山梨県(甲府市)	0.044	0.044	0.044	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.040~0.064
20	長野県(長野市)	0.046	0.045	0.045	0.044	0.044	0.043	0.043	0.043	0.043	0.044	0.0299~0.0974
21	岐阜県(各務原市)	0.061	0.061	0.061	0.061	0.060	0.060	0.060	0.060	0.060	0.060	0.057~0.110
22	静岡県(静岡市)	0.038	0.037	0.037	0.040	0.042	0.041	0.039	0.038	0.038	0.038	0.0281~0.0765
23	愛知県(名古屋市)	0.041	0.041	0.041	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.035~0.074
24	三重県(四日市市)	0.047	0.046	0.046	0.047	0.046	0.046	0.046	0.047	0.046	0.046	0.0416~0.0789
25	滋賀県(大津市)	0.034	0.034	0.035	0.034	0.034	0.033	0.032	0.032	0.032	0.032	0.031~0.061
26	京都府(京都市)	0.040	0.039	0.038	0.038	0.038	0.037	0.037	0.038	0.037	0.038	0.033~0.087
27	大阪府(大阪市)	0.043	0.043	0.043	0.043	0.042	0.042	0.042	0.042	0.042	0.042	0.042~0.061
28	兵庫県(神戸市)	0.036	0.036	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.035~0.076
29	奈良県(奈良市)	0.049	0.048	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.046~0.08
30	和歌山県(和歌山市)	0.033	0.032	0.033	0.032	0.031	0.031	0.031	0.031	0.031	0.031	0.031~0.056
31	鳥取県(東伯郡)	0.064	0.063	0.064	0.064	0.064	0.063	0.063	0.063	0.063	0.063	0.036~0.11
32	島根県(松江市)	0.047	0.047	0.048	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.037~0.131
33	岡山県(岡山市)	0.051	0.050	0.050	0.049	0.049	0.048	0.048	0.048	0.048	0.048	0.043~0.104
34	広島県(広島市)	0.047	0.047	0.048	0.047	0.047	0.046	0.046	0.046	0.046	0.046	0.035~0.069
35	山口県(山口市)	0.098	0.097	0.094	0.093	0.093	0.093	0.093	0.093	0.093	0.092	0.084~0.128
36	徳島県(徳島市)	0.037	0.037	0.038	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037~0.067
37	香川県(高松市)	0.062	0.056	0.063	0.062	0.058	0.054	0.054	0.054	0.054	0.055	0.051~0.077
38	愛媛県(松山市)	0.048	0.047	0.048	0.048	0.048	0.047	0.047	0.047	0.046	0.047	0.045~0.074
39	高知県(高知市)	0.026	0.026	0.025	0.025	0.024	0.024	0.024	0.024	0.024	0.024	0.023~0.076
40	福岡県(太宰府市)	0.036	0.036	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.034~0.079
41	佐賀県(佐賀市)	0.040	0.040	0.041	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.037~0.086
42	長崎県(大村市)	0.029	0.029	0.030	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.027~0.069
43	熊本県(宇土市)	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.021~0.067
44	大分県(大分市)	0.050	0.050	0.051	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.048~0.085
45	宮崎県(宮崎市)	0.027	0.028	0.026	0.026	0.025	0.026	0.026	0.026	0.026	0.026	0.0243~0.0664
46	鹿児島県(鹿児島市)	0.035	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.0306~0.0943
47	沖縄県(うるま市)	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.0133~0.0575

*宮城県では、可搬型モニタリングポストによる測定。

*福島県では、双葉郡のモニタリングポストが避難区域に入っており、測定が困難であるため、代替地として福島市紅葉山局モニタリングポストで測定。

*島根県では、機器点検のため、4月4日17時から代替機器により測定。

*空欄は機器点検等のための欠測等

*本データは、 $1\mu\text{Gy/h}$ (マイクログレイ毎時) $=1\mu\text{Sv/h}$ (マイクロシーベルト毎時)と換算して算出

*文部科学省が各都道府県等からの報告に基づき作成

茨城県におけるモニタリング状況(1/1)

文部科学省

H23.4.6 19:00

 $\mu\text{Sv/h}$ (マイクロシーベルト毎時)

日時	日本原子力研究開発機構 原子力科学研究所 (茨城県東海村)	日本原子力研究開発機構 核燃料サイクル工学研究所 (茨城県東海村)	東京大学弥生 (茨城県東海村)
4月6日			
0:00	1.22	0.69	0.96
1:00	1.22	0.69	1.08
2:00	1.23	0.69	1.02
3:00	1.23	0.69	0.98
4:00	1.22	0.69	0.96
5:00	1.22	0.69	1.01
6:00	1.22	0.69	0.90
7:00	1.22	0.69	0.93
8:00	1.21	0.69	1.04
9:00	1.21	0.68	0.88
10:00	1.21	0.68	0.92
11:00	1.20	0.68	0.93
12:00	1.20	0.68	0.97
13:00	1.20	0.68	0.98
14:00	1.20	0.68	0.91
15:00	1.20	0.68	0.95
16:00	1.20	0.68	0.93
17:00	1.20	0.68	0.87
18:00	1.20	0.67	

※このデータは、表記の3カ所における空間線量率を1時間毎に計測したもの。日本原子力研究開発機構原子力科学研究所及び日本原子力研究開発機構核燃料サイクル工学研究所のデータは、それぞれ以下のホームページでも掲載されている。

日本原子力研究開発機構原子力科学研究所

<http://erms.jaea.go.jp/Chart.htm>

日本原子力研究開発機構核燃料サイクル工学研究所

http://www.jaea.go.jp/04/ztokai/kankyo/realtime/tbl_10mStPo01.html

From: McNamara, Nancy
Sent: Wednesday, March 16, 2011 3:16 PM
To: OST05 Hoc
Subject: RE: Governor's office in NY

Rosetta, can you please call me asap?

From: OST05 Hoc
Sent: Wednesday, March 16, 2011 2:34 PM
To: Landau, Mindy; Royer, Deanna
Cc: Tift, Doug; Screnci, Diane; McNamara, Nancy
Subject: RE: Governor's office in NY

Message below is a bit cryptic – Doug Tift, NRC Region I State Liaison Officer and I tried to reach Deanna and left a message

Doug Tift, Region I is following up with the NY Governor appointed State Liaison Officer

Rosetta Virgilio
State Liaison Team
NRC Operations Center
301-816-5193
OST05.HOC@nrc.gov

From: Tift, Doug
Sent: Wednesday, March 16, 2011 2:20 PM
To: OST05 Hoc
Subject: FW: Governor's office in NY

From: McNamara, Nancy
Sent: Wednesday, March 16, 2011 2:08 PM
To: Tift, Doug
Subject: FW: Governor's office in NY

From: Screnci, Diane
Sent: Wednesday, March 16, 2011 2:05 PM
To: McNamara, Nancy
Subject: FW: Governor's office in NY

This is a message that was taken at HQ. It's the Governor's office. I'm passing this along to you.

Diane Screnci
Sr. Public Affairs Officer
USNRC, RI

RRR/14

610/337-5330

From: Landau, Mindy
Sent: Wednesday, March 16, 2011 1:47 PM
To: Screnci, Diane
Subject: FW: Governor's office in NY

From: Royer, Deanna
Sent: Wednesday, March 16, 2011 1:46 PM
To: Landau, Mindy
Subject: Governor's office in NY

Rich

(b)(6)

Re: Information on our website that Indian Point is # 1 concern wants to verify

Deanna Royer
Contract Secretary
Division of New Reactor Licensing
(301) 415-7158
Deanna.Royer@nrc.gov

From: Landau, Mindy
Sent: Wednesday, March 16, 2011 2:40 PM
To: OST05 Hoc; Royer, Deanna
Cc: Tift, Doug; Screnci, Diane; McNamara, Nancy
Subject: RE: Governor's office in NY

Thanks

From: OST05 Hoc
Sent: Wednesday, March 16, 2011 2:34 PM
To: Landau, Mindy; Royer, Deanna
Cc: Tift, Doug; Screnci, Diane; McNamara, Nancy
Subject: RE: Governor's office in NY

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Doug Tift, Region I is following up with the NY Governor appointed State Liaison Officer

Rosetta Virgilio
State Liaison Team
NRC Operations Center
301-816-5193
OST05.HQC@nrc.gov

From: Tift, Doug
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Subject: FW: Governor's office in NY

From: McNamara, Nancy
Sent: Wednesday, March 16, 2011 2:08 PM
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Subject: FW: Governor's office in NY

From: Screnci, Diane
Sent: Wednesday, March 16, 2011 2:05 PM
To: McNamara, Nancy
Subject: FW: Governor's office in NY

This is a message that was taken at HQ. It's the Governor's office. I'm passing this along to you.

Diane Screnci
Sr. Public Affairs Officer

RRR/IS

USNRC, RI
610/337-5330

From: Landau, Mindy
Sent: Wednesday, March 16, 2011 1:47 PM
To: Screnci, Diane
Subject: FW: Governor's office in NY

From: Royer, Deanna
Sent: Wednesday, March 16, 2011 1:46 PM
To: Landau, Mindy
Subject: Governor's office in NY

Rich

(b)(6)

Re: Information on our website that Indian Point is # 1 concern wants to verify

Deanna Royer
Contract Secretary
Division of New Reactor Licensing
(301) 415-7158
Deanna.Royer@nrc.gov

From: OST05 Hoc
Sent: Wednesday, March 16, 2011 2:07 PM
To: LIA12 Hoc
Subject: RE: Chambersburg Public Opinion: Retired engineer in Greencastle says Japan's nuclear plant poses little threat to Franklin County

Categories: Red Category

NOTE ATTACHED (NRC seal in background?!)

From: Kenneth.wierman@dhs.gov [mailto:Kenneth.wierman@dhs.gov]
Sent: Wednesday, March 16, 2011 2:03 PM
To: OST05 Hoc
Subject: Chambersburg Public Opinion: Retired engineer in Greencastle says Japan's nuclear plant poses little threat to Franklin County

This article link was mailed to you by: Kenneth.wierman@dhs.gov *

I thought you might find this article of interest.

[Retired engineer in Greencastle says Japan's nuclear plant poses little threat to Franklin County - Public Opinion Online](#)

By ROSCOE BARNES III Staff writer GREENCASTLE -- In light of the nuclear power plant crisis in Japan, it wouldn't be a bad idea to have the milk in this area tested for radiation, according to a retired engineer who served on the Nuclear Regulatory Commission. [View Full Story](#)

Most E-Mailed

(From the last 12 hours)

1. [Volvo to add 220 jobs to Shippensburg plant](#)
2. [PO GUEST ESSAY: Lawmakers consider gas infrastructure, markets](#)
3. [Retired engineer in Greencastle says Japan's nuclear plant poses...](#)
4. [Chambersburg's Elm Street program, Franklin County tourism face deep...](#)
5. [Student missing from school found asleep at home](#)

http://www.publicopiniononline.com/ci_17615599
<http://www.publicopiniononline.com>

This e-mail was delivered by machines from the following IP addresses (b)(6)

RRR/KC

* Please note, the sender's email address has not been verified.

From: LIA05 Hoc
Sent: Wednesday, March 16, 2011 2:04 PM
To: Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: FW: Chambersburg Public Opinion: Retired engineer in Greencastle says Japan's nuclear plant poses little threat to Franklin County

This was in my local paper yesterday.

FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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From: Kenneth.wierman@dhs.gov [mailto:Kenneth.wierman@dhs.gov]
Sent: Wednesday, March 16, 2011 2:07 PM
To: LIA05 Hoc
Subject: Chambersburg Public Opinion: Retired engineer in Greencastle says Japan's nuclear plant poses little threat to Franklin County

This article link was mailed to you by: Kenneth.wierman@dhs.gov *

I thought you might find this article of interest.

[Retired engineer in Greencastle says Japan's nuclear plant poses little threat to Franklin County - Public Opinion Online](#)

By ROSCOE BARNES III Staff writer GREENCASTLE -- In light of the nuclear power plant crisis in Japan, it wouldn't be a bad idea to have the milk in this area tested for radiation, according to a retired engineer who served on the Nuclear Regulatory Commission. [View Full Story](#)

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4. [Chambersburg's Elm Street program, Franklin County tourism face deep...](#)
5. [Student missing from school found asleep at home](#)

RRR/17

http://www.publicopiniononline.com/ci_17615599

<http://www.publicopiniononline.com>

This e-mail was delivered by machines from the following IP addresses [(b)(6)]

* Please note, the sender's email address has not been verified.

From: OST05 Hoc
Sent: Wednesday, March 16, 2011 2:06 PM
To: LIA12 Hoc
Subject: RE: Chambersburg Public Opinion: Retired engineer in Greencastle says Japan's nuclear plant poses little threat to Franklin County

FYI

From: Kenneth.wierman@dhs.gov [mailto:Kenneth.wierman@dhs.gov]
Sent: Wednesday, March 16, 2011 2:03 PM
To: OST05 Hoc
Subject: Chambersburg Public Opinion: Retired engineer in Greencastle says Japan's nuclear plant poses little threat to Franklin County

This article link was mailed to you by: Kenneth.wierman@dhs.gov *

I thought you might find this article of interest.

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This e-mail was delivered by machines from the following IP addresses (b)(6)

* Please note, the sender's email address has not been verified.

RRR/18

From: Kate Fuller (b)(6)
Sent: Wednesday, March 16, 2011 9:05 PM
To: LIA04 Hoc
Cc: Kate Fuller; Turtil, Richard
Subject: RE: U.S. Nuclear Regulatory Commission Communication to Northern Mariana Islands

Glad to hear it. I'd appreciate it if you could keep me in loop with updates.

Thanks again.

Kate B. Fuller
CNMI Assistant Attorney General/Legal Counsel to
the Division of Environmental Quality/Acting Air Branch Manager, CNMI DEQ
(P) 670-664-8503
(F) 670-664-8540

From: LIA04.Hoc@nrc.gov
To: (b)(6)
CC: katefuller@deq.gov.mp; Bill.Maier@nrc.gov; Elmo.Collins@nrc.gov; OST05.Hoc@nrc.gov; Cindy.Flannery@nrc.gov; Kim.Lukes@nrc.gov; Amanda.Noonan@nrc.gov; William.Rautzen@nrc.gov; Alison.Rivera@nrc.gov; Michelle.Ryan@nrc.gov; Richard.Turtil@nrc.gov; Rosetta.Virgilio@nrc.gov
Date: Wed, 16 Mar 2011 20:56:57 -0400
Subject: RE: U.S. Nuclear Regulatory Commission Communication to Northern Mariana Islands

Thank you Ms. Fuller (Northern Mariana Islands). We are on a call this moment that is organized by HHS. NMI (Mr. Seman), Guam, American Samoa, HI, FEMA, CDC, EPA, NRC, and others are all on. It is a good gathering of interested and concerned territories and Fed and State agencies. Again, thank you for contacting me. We shall reach out to Mr. Seaman and/or Mr. Mease.

I'm finding that Jerold Fenner of HHS will also be a good resource for contacting Pacific Island Countries (PICs). Thank you.

Richard Turtil
State Liaison – Liaison Team
Incident Response Center

From: Kate Fuller [mailto:(b)(6)]
Sent: Wednesday, March 16, 2011 8:42 PM
To: LIA04 Hoc
Cc: Kate Fuller
Subject: RE: U.S. Nuclear Regulatory Commission Communication to Northern Mariana Islands

RRR/19

Dear Mr. Turtill:

I am glad to know that the NRC is thinking of the CNMI and was happy to be of assistance.

I haven't spoken to Nathan in some time, but I believe he is still the legal counsel for the ASEPA. His contact information is

Nathan Mease
AS-EPA Legal Counsel
PO Box PPA
Pago Pago, Am. Samoa 96799
Ph:684-633-2304
Fx:684-633-5801

Let me know if you cannot reach him and I'll try to find another contact for you.

Kate B. Fuller
CNMI Assistant Attorney General/Legal Counsel to
the Division of Environmental Quality/Acting Air Branch Manager, CNMI DEQ
(P) 670-664-8503
(F) 670-664-8540

From: LIA04.Hoc@nrc.gov
To: katefuller@deq.gov.mp
CC: OST05.Hoc@nrc.gov; Bill.Maier@nrc.gov; Jared.Heck@nrc.gov; Mark.Satorius@nrc.gov; Cindy.Flannery@nrc.gov;
Kim.Lukes@nrc.gov; Amanda.Noonan@nrc.gov; William.Rautzen@nrc.gov; Alison.Rivera@nrc.gov;
Michelle.Ryan@nrc.gov; Richard.Turtill@nrc.gov; Rosetta.Virgilio@nrc.gov
Date: Wed, 16 Mar 2011 19:50:24 -0400
Subject: U.S. Nuclear Regulatory Commission Communication to Northern Mariana Islands

Thank you Ms. Fuller (Northern Mariana Islands) for your assistance in developing appropriate contacts within your government and with Guam and American Samoa. In response to the events in Japan, the attached U.S. Nuclear Regulatory Commission (NRC) press releases have been released by the NRC and can also be found at www.nrc.gov.

These press releases reflect the following: In response to nuclear emergencies, the NRC works with other U.S. agencies to monitor radioactive releases and predict their path. All the available information continues to indicate Hawaii, Alaska, the U.S. Territories and the U.S. West Coast are not expected to experience any harmful levels of radioactivity.

The NRC's web site will continue to be updated with press releases that address ongoing events in Japan.

Again, thank you for your assistance.

Richard Turtill
State Liaison – Liaison Team
Incident Response Center
301-816-5100, State Liaison

From: LIA06 Hoc
Sent: Wednesday, March 16, 2011 6:41 PM
To: (b)(6)
Subject: RE: Call with DOE

Ok - thanks

From: (b)(6)
Sent: Wednesday, March 16, 2011 6:42 PM
To: LIA06 Hoc
Subject: Re: Call with DOE

Alan the DOE guy had to run back to the hotel. He should be back soon. I will tell you when I see him.

Sent from my Verizon Wireless BlackBerry

From: LIA06 Hoc <LIA06.Hoc@nrc.gov>
Date: Wed, 16 Mar 2011 18:34:44 -0400
To: (b)(6)
Subject: Call with DOE

Can you support a call in about 10 minutes? If so, let me know, and I will arrange a bridge line for you and the DOE person that is there with you.

Mark Thaggard, LT Director

RRR/20

From: LIA06 Hoc
Sent: Wednesday, March 16, 2011 6:43 PM
To: (b)(6)
Subject: RE: Call with DOE

Please call into the HOO, we will do it without the DOE guy?

From: (b)(6)
Sent: Wednesday, March 16, 2011 6:42 PM
To: LIA06 Hoc
Subject: Re: Call with DOE

Alan the DOE guy had to run back to the hotel. He should be back soon. I will tell you when I see him.

Sent from my Verizon Wireless BlackBerry

From: LIA06 Hoc <LIA06.Hoc@nrc.gov>
Date: Wed, 16 Mar 2011 18:34:44 -0400
To: (b)(6)
Subject: Call with DOE

Can you support a call in about 10 minutes? If so, let me know, and I will arrange a bridge line for you and the DOE person that is there with you.

Mark Thaggard, LT Director

RRR/21

From: Maier, Bill
Sent: Wednesday, March 16, 2011 8:13 PM
To: LIA04 Hoc; OST05 Hoc
Subject: FW: Pacific Public Health Messaging: Radiation Release in Japan

Rich,

Here is Jerry Fenner's contact information including his e-mail address

Bill

From: Fenner, Jerold (HHS/ASPR/OPEO) [mailto:Jerold.Fenner@hhs.gov]
Sent: Wednesday, March 16, 2011 6:03 PM
To: Fenner, Jerold (HHS/ASPR/OPEO); Maier, Bill
Subject: RE: Pacific Public Health Messaging: Radiation Release in Japan

Sorry Bill,

I think that I called you Dan when we ended our call. I hope that all else is well.

Thanks,

Jerry

Jerold Fenner, MPH, MEP
Regional Emergency Coordinator, Region IX
US Dept. of Health & Human Services
Office of the Assistant Secretary for Preparedness & Response
90 7th Street, Suite 3-350
San Francisco, CA 94103
Office: (415) 633-5501
Cell: (b)(6)
Jerold.Fenner@hhs.gov

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From: Fenner, Jerold (HHS/ASPR/OPEO)
Sent: Wednesday, March 16, 2011 1:52 PM
To: Bill.Maier@nrc.gov
Subject: FW: Pacific Public Health Messaging: Radiation Release in Japan

FYI

Jerold Fenner, MPH, MEP
Regional Emergency Coordinator, Region IX
US Dept. of Health & Human Services
Office of the Assistant Secretary for Preparedness & Response

RRR/aa

90 7th Street, Suite 3-350
San Francisco, CA 94103
Office: (415) 633-5501
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From: Fenner, Jerold (HHS/ASPR/OPEO)
Sent: Tuesday, March 15, 2011 8:12 PM
To: Gaynor, Mary Kathleen M.D. (Kate); Arthy G. Nena; O'Mallan, Josie (CDC dphss.guam.gov); Peter Judicpa; William Kando; michael poblete; siitia@doh.as; Ben Sili; Jacqueline Solaita; Melinda Lawrence - Palau; (b)(6)
(b)(6) Joanes Sarofalpiy; Lisa Barrow; Bryce, Michael (HHS/ASPR/OPEO); Toby L. Clairmont; Gallo, Bill (CDC/OSTLTS/DPHCD); Owolabi, Mojisola; Arcibal, Laura K.; Rayle, Vicky (CDC/OSTLTS/DPHCD); Walmsley, John (HHS/OASH); Cathy Wasem; Michael, Gretchen (HHS/ASPR/COO); Sanders, Melissa (HHS/ASPR/OPEO); Sheehan, Kevin (HHS/ASPR/OPEO); Joseph Kevin Villagomez; Pavlin, Dr Boris (FSM); Yano, Victor (CDC palau-health.net); Seiuli Elisapeta Ponsusua, American Samoa DPCP (CDC gmail.com); michael.epp@pihoa.org; Gaynor, Mary Kathleen M.D. (Kate); Langidrik, Justina <Marshall Is> (b)(6) McMichael, Janice R. (CDC/OPHPR/DSLRL); Simons, Nadine M (HHS/OASH)
Cc: Lusk, Jeff; Clark, Kevin; Walz, Kim; Matz, Shawn; Zuiderhoek, Terrie; Dombrowski, Justin; Shigetani, Marilyn; Todd.L.Smith@aphis.usda.gov; Buell, Rick (HHS/ASPR/OPEO); Yee, James C (FDA/ORA); Kreis, Jane M (FDA/ORA); Corson, Corinne (ACF); Francesca.Austin@va.gov; Voirin, Anthony J LTCOL MIL USAF; Schultz, Herb (HHS/IGA/ORD)
Subject: Pacific Public Health Messaging: Radiation Release in Japan

Friends,

The US Department of Health and Human Services would like to facilitate a call to coordinate public health messaging and information sharing among Federal, State and Pacific Jurisdictional partners related to radiological events in Japan.

On the call we will ask Hawaii, the Pacific Jurisdictions, Federal and other Pacific Partners to discuss their actions and challenges related to public health messaging. If you have any questions or need more information, please let me know.

Time: 5 PM Pacific Time (5 PM Pacific is now 2 PM in HI; 1 PM in AS; 12 Noon in RMI; 11 AM in Pohnpei; 10 AM in CNMI, Guam, Chuuk and Yap; 9 AM in Palau).
Call in Information: 888-455-7847, Passcode -- (b)(6)

Thank you,

Jerry

Jerold Fenner, MPH, MEP
Regional Emergency Coordinator, Region IX
US Dept. of Health & Human Services
Office of the Assistant Secretary for Preparedness & Response
90 7th Street, Suite 3-350
San Francisco, CA 94103
Office: (415) 633-5501

Cell: [redacted] (g)(q)
Jerold.Fenner@hhs.Gov

From: Maier, Bill
Sent: Wednesday, March 16, 2011 6:33 PM
To: LIA04 Hoc; OST05 Hoc; Howell, Linda
Cc: Howell, Art; Collins, Elmo
Subject: FW: Pacific Public Health Messaging: Radiation Release in Japan

I have also been invited to this call (below) as the Regional NRC representative. I intend to participate and since there are all the other Regional Federal agencies represented, I don't expect there will be too many questions directed to me. I have the talking points. If there are questions about the status of the plants, I will refer to the Chairman's testimony this afternoon.

Bill Maier

From: Fenner, Jerold (HHS/ASPR/OPEO) [mailto:Jerold.Fenner@hhs.gov]
Sent: Wednesday, March 16, 2011 3:52 PM
To: Maier, Bill
Subject: FW: Pacific Public Health Messaging: Radiation Release in Japan

FYI

Jerold Fenner, MPH, MEP
Regional Emergency Coordinator, Region IX
US Dept. of Health & Human Services
Office of the Assistant Secretary for Preparedness & Response
90 7th Street, Suite 3-350
San Francisco, CA 94103
Office: (415) 633-5501
Cell: (b)(6)
Jerold.Fenner@hhs.Gov

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Sent: Tuesday, March 15, 2011 8:12 PM
To: Gaynor, Mary Kathleen M.D. (Kate); Arthy G. Nena; O'Mallan, Josie (CDC dphss.guam.gov); Peter Judicpa; William Kando; michael.poblete; siitia@doh.as; Ben Sili; Jacqueline Solaita; Melinda Lawrence - Palau; (b)(6)
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Cc: Lusk, Jeff; Clark, Kevin; Walz, Kim; Matz, Shawn; Zuiderhoek, Terrie; Dombrowski, Justin; Shigetani, Marilyn; Todd.L.Smith@aphis.usda.gov; Buell, Rick (HHS/ASPR/OPEO); Yee, James C (FDA/ORA); Kreis, Jane M (FDA/ORA); Corson, Corinne (ACF); Francesca.Austin@va.gov; Voirin, Anthony J LTCOL MIL USAF; Schuitz, Herb (HHS/IGA/ORD)
Subject: Pacific Public Health Messaging: Radiation Release in Japan

Friends,

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Time: 5 PM Pacific Time (5 PM Pacific is now 2 PM in HI; 1 PM in AS; 12 Noon in RMI; 11 AM in Pohnpei; 10 AM in CNMI, Guam, Chuuk and Yap; 9 AM in Palau).

Call in Information: 888-455-7847, Passcode - (b)(6)

Thank you.

Jerry

Jerold Fenner, MPH, MEP
Regional Emergency Coordinator, Region IX
US Dept. of Health & Human Services
Office of the Assistant Secretary for Preparedness & Response
90 7th Street, Suite 3-350
San Francisco, CA 94103
Office: (415) 633-5501
Cell: (b)(6)
Jerold.Fenner@hhs.Gov

From: Tschiltz, Michael
Sent: Wednesday, March 16, 2011 6:41 AM
To: Temple, Jeffrey; LIA06 Hoc; LIA08 Hoc; Thaggard, Mark; Blount, Tom; McGinty, Tim
Cc: Lombard, Mark
Subject: Re: Long term LT staffing, i.e., beyond 3/18/11

How does OIP fit in. Up until now they have played an important role in interactions? Thanks. Mike

Sent from my NRC blackberry.

Michael Tschiltz

(b)(6)

From: Temple, Jeffrey
To: LIA06 Hoc; LIA08 Hoc; Thaggard, Mark; Blount, Tom; McGinty, Tim; Tschiltz, Michael
Cc: Lombard, Mark
Sent: Tue Mar 15 22:01:34 2011
Subject: RE: Long term LT staffing, i.e., beyond 3/18/11

Thanks Mark. I agree with your logic. I have already started cutting down on Congressional liaison and State liaison (down to daytime only from 24/7 coverage). Other changes will be in order as we ramp some functions down and others up. Jeff

From: LIA06 Hoc
Sent: Tuesday, March 15, 2011 1:23 PM
To: LIA08 Hoc; Temple, Jeffrey; Thaggard, Mark; Blount, Tom; McGinty, Tim; Tschiltz, Michael
Cc: Lombard, Mark
Subject: Long term LT staffing, i.e., beyond 3/18/11

Milt and I have been discussing long term staffing of the LT. While the status of Fukushima Daiichi is stabilizing at this point, we will probably have NRC personnel in Japan at least through 3/25/11, based on discussions with Mike Weber, and most likely longer than that with a change out of personnel at a point where each individual would not spend more than two weeks in Japan. With consideration that certain positions on the LT are primarily needed during normal weekday working hours (e.g., State Liaison), we want to provide sufficient support to our folks in Japan that are working in a different time zone, and support the ET, perhaps standing down to a small crew beginning this Saturday, 3/19/11, would be in order. Note that things have been much more quiet today than the last four days. With these considerations in mind, what do you all think of, starting at 2300 (11:00 pm) Friday night, going to two to four LT members (maybe Director, Coordinator and Federal and International Liaisons) per shift on the weekend and then adding one each State and Congressional Liaisons Monday through Friday (0700 to 1900 for State to cover US time zones and 0700 to 1700 for Congressional).

Mark Lombard, Acting Director LT

RRR/04

From: LIA05 Hoc
Sent: Thursday, March 17, 2011 12:55 PM
To: james.purvis@dhs.gov
Cc: Vanessa E. Quinn; Tim Greten; Harry Sherwood; Steve Horwitz; Ralston, Michelle
Subject: FW: FYI - Seismic Q&As 3-16-11 3am version
Attachments: Seismic Questions for Incident Response 3-16-11 3am.pdf

This was sent this morning to Tim, Harry Vanessa ,etc .

FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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From: LIA05 Hoc
Sent: Thursday, March 17, 2011 6:57 AM
To: 'Vanessa E. Quinn'; 'Andrew Seward'; 'Harry Sherwood'; 'Michelle Ralston'; 'Steve Horwitz'; 'Tim Greten'
Subject: FW: FYI - Seismic Q&As 3-16-11 3am version

FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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From: Weber, Michael
Sent: Wednesday, March 16, 2011 6:39 PM
To: RST01 Hoc; LIA05 Hoc
Cc: Burnell, Scott; McIntyre, David
Subject: FYI - Seismic Q&As 3-16-11 3am version

From: Kammerer, Annie
Sent: Wednesday, March 16, 2011 4:14 AM
To: Kammerer, Annie; Hiland, Patrick; Skeen, David
Cc: Howe, Allen; Nelson, Robert; Stutzke, Martin; Glitter, Joseph; Rihm, Roger; McDermott, Brian; Hasselberg, Rick; Chokshi, Niles; Munson, Clifford; Cook, Christopher; Flanders, Scott; Ross-Lee, MaryJane; Brown, Frederick; Glitter, Joseph; Howe, Allen; Case, Michael; Ruland, William; Dudes, Laura; Karas, Rebecca; Ake, Jon; Munson, Clifford; Hogan, Rosemary; Uhle, Jennifer; Marshall, Michael; Uselding, Lara; Randall, John; Allen, Don; Burnell, Scott; Hayden, Elizabeth; Pires, Jose; Graves, Herman; Candra, Hernando; Murphy, Andrew; Murphy, Andrew; Pires, Jose; Hogan, Rosemary; Sheron, Brian; Dricks, Victor; Warnick, Greg; Reynoso, John; Lantz, Ryan; Markley, Michael; Devlin, Stephanie; Nguyen, Quynh; Meighan, Sean; Vegal, Anton; Lantz, Ryan; Jones, Henry; Bagchi, Goutam; McIntyre, David; Thomas, Eric;

ARR/05

Mahoney, Michael; Polickoski, James
Subject: Seismic Q&As 3-16-11 3am version

All,

Here's the latest version of the seismic Q&As. It is (I believe) a big improvement from yesterday. We had quite a few new questions today, which were included here (not all with answers yet).

A sharepoint site is being set up for the Q&As. The link will be provided as soon as we have it so that anyone can get the latest version.

We are continuing to compile the questions that come in and update the seismic Q&A document. If you have suggested changes, or want to provide missing answers, please forward them to me (annie) for compilation. Please also CC Cliff Munson and Jon Ake.

This is a living document and will be updated daily in the foreseeable future.

Cheers,
Annie

PS: the following people have questions assigned in this document or volunteered to help. Please look for your name or for the gaps in your area of expertise. Also, please review the questions in your area of expertise: Goutam Bagchi, Nilesh Chokshi, Henry Jones, Rich Raione, Mike Markley (if you can get me help on some), Jose Pires, Lara Uselding (help me get the RIV questions to the right people), Jon and Cliff. Thanks for the help!

From: Kammerer, Annie
Sent: Tuesday, March 15, 2011 3:41 AM
To: Hiland, Patrick; Skeen, David
Cc: Howe, Allen; Nelson, Robert; Stutzke, Martin; Giitter, Joseph; Rihm, Roger; McDermott, Brian; Hasselberg, Rick; Kammerer, Annie; Chokshi, Nilesh; Munson, Clifford; Cook, Christopher; Flanders, Scott; Ross-Lee, MaryJane; Brown, Frederick; Giitter, Joseph; Howe, Allen; Case, Michael; Ruland, William; Dudes, Laura; Karas, Rebecca; Ake, Jon; Munson, Clifford; Hogan, Rosemary; Uhle, Jennifer; Marshall, Michael; Uselding, Lara; Randall, John; Allen, Don; Burnell, Scott; Hayden, Elizabeth; Pires, Jose; Graves, Herman; Candra, Hernando; Murphy, Andrew; Murphy, Andrew; Pires, Jose; Hogan, Rosemary; Sheron, Brian; Dricks, Victor; Warnick, Greg; Reynoso, John; Lantz, Ryan; Markley, Michael
Subject: latest version of Q&As

All,

This is the first draft of the seismic-specific Q&As. It is pretty rough and there are many answers still missing, but people have contributed a lot and we thought it may be useful for many people trying to answer questions coming in.

We are continuing to compile the questions that come in and update the seismic Q&A document. If you have suggested changes, or want to provide missing answers, please forward them to me for compilation.

This is a living document and will be updated daily in the foreseeable future.

Annie

Dr. Annie Kammerer, PE
Senior Seismologist and Earthquake Engineer
US Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Washington DC 20555

(g)(q) mobile
(g)(q) BB

From: LIA06 Hoc
Sent: Thursday, March 17, 2011 3:22 PM
To: LIA08 Hoc
Subject: FW: Outreach tasking

Liaison Team Director
U.S. Nuclear Regulatory Commission
Operations Center

From: McDermott, Brian
Sent: Thursday, March 17, 2011 1:41 PM
To: LIA06 Hoc
Subject: Outreach tasking

Chris Earls (b)(6)

Plz have the Liaison Team ldr contact Chris Earls to set up the info exchange regarding assumptions for NRC recommendations.

BRB/26

From: LIA04 Hoc
Sent: Thursday, March 17, 2011 12:40 PM
To: Nguyen, Quynh; Meighan, Sean
Cc: McNamara, Nancy; Tifft, Doug; OST05 Hoc
Subject: RE: Seismic Q&As March 17th 2am update

It does not appear that the latest 3/17 2 am version has been posted to the SharePoint site ... ?

From: Tifft, Doug
Sent: Thursday, March 17, 2011 11:50 AM
To: OST05 Hoc; LIA04 Hoc
Cc: Nguyen, Quynh; McNamara, Nancy
Subject: FW: Seismic Q&As March 17th 2am update

More talking points I've received through non-official channels. I don't see this on sharepoint yet. OK to use?
-Doug

From: Barkley, Richard
Sent: Thursday, March 17, 2011 11:42 AM
To: Screnci, Diane; McNamara, Nancy; Tifft, Doug
Subject: FW: Seismic Q&As March 17th 2am update

Have you three seen these?

From: Kammerer, Annie
Sent: Thursday, March 17, 2011 2:36 AM
To: Kammerer, Annie; Hiland, Patrick; Skeen, David; Case, Michael; RST01 Hoc
Cc: Howe, Allen; Nelson, Robert; Stutzke, Martin; Giitter, Joseph; Rihm, Roger; McDermott, Brian; Hasselberg, Rick; Chokshi, Nilesh; Munson, Clifford; Cook, Christopher; Flanders, Scott; Ross-Lee, MaryJane; Brown, Frederick; Giitter, Joseph; Howe, Allen; Ruland, William; Dudes, Laura; Karas, Rebecca; Ake, Jon; Munson, Clifford; Hogan, Rosemary; Uhle, Jennifer; Marshall, Michael; Uselding, Lara; Randall, John; Allen, Don; Burnell, Scott; Hayden, Elizabeth; Pires, Jose; Graves, Herman; Candra, Hernando; Murphy, Andrew; Murphy, Andrew; Pires, Jose; Hogan, Rosemary; Sheron, Brian; Dricks, Victor; Warnick, Greg; Reynoso, John; Lantz, Ryan; Markley, Michael; Orders, William; Santiago, Patricia; Snodderly, Michael; Baggett, Steven; Sosa, Belkys; Davis, Roger; Franovich, Mike; Castleman, Patrick; Sharkey, Jeffrey; Boska, John; Ma, John; Tegeler, Bret; Patel, Pravin; Shams, Mohamed; Morris, Scott; Brenner, Eliot; Harrington, Holly; Seber, Dogan; Ledford, Joey; Johnson, Michael; Virgilio, Martin; Holahan, Vincent; Bergman, Thomas
Subject: Seismic Q&As March 17th 2am update

All,

As promised, a sharepoint site has been set up where our friends in NRR will be posting the latest version of the Seismic Q&A document on an ongoing basis. If someone would prefer to use the sharepoint site, instead of being on this distribution list, please let me know...

<http://portal.nrc.gov/edo/nrr/NRR%20TA/FAQ%20Related%20to%20Events%20Occuring%20in%20Japan/Forms/AllItems.aspx>

This latest update has a number of new questions (not many with answers today, but we are working hard). A high priority question we are working on is "how many plants are near a mapped active fault". We're focusing

NRR/05

on anything within 50 miles. We're also pulling relevant questions from the congressional inquiries we just received; and will also give these high priority to support any needs by NRR.

Many new figures and some draft fact sheets have added to the "additional information" section. These include the NRO half of a tsunami fact sheet...a description of the tsunami research is still to come from RES.

Some good news: Yesterday's version seems to have been widely forwarded around the agency. So, we are also starting to get some excellent questions from staff looking forward. This is allowing us to feel that we are finally getting out in front of things to a small degree. Also, our team has grown and we now have someone acting as source of seismic expertise for the 11pm to 7 am shift. This means that we now have seismic experts available to the RST and OPA at the Op Center 24 hours, with 2 people during the day. That extra support is allowing us to get this out at least an hour earlier today ☺

We are continuing to compile the questions that come in and update the seismic Q&A document. If you have suggested changes, or want to provide missing answers, please forward them to me for compilation.

This is a living document and will be updated daily in the foreseeable future.

Happy St. Paddy's Day. May the world (especially our friends in Japan) have the luck of the Irish today.

Cheers,
Annie

Dr. Annie Kammerer, PE
Senior Seismologist and Earthquake Engineer
US Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Washington DC 20555

(b)(6) mobile

(b)(6) BB

From: Kammerer, Annie

Sent: Tuesday, March 15, 2011 3:41 AM

To: Hiland, Patrick; Skeen, David

Cc: Howe, Allen; Nelson, Robert; Stutzke, Martin; Giitter, Joseph; Rihm, Roger; McDermott, Brian; Hasselberg, Rick; Kammerer, Annie; Chokshi, Nilesh; Munson, Clifford; Cook, Christopher; Flanders, Scott; Ross-Lee, MaryJane; Brown, Frederick; Giitter, Joseph; Howe, Allen; Case, Michael; Ruland, William; Dudes, Laura; Karas, Rebecca; Ake, Jon; Munson, Clifford; Hogan, Rosemary; Uhle, Jennifer; Marshall, Michael; Uselding, Lara; Randall, John; Allen, Don; Burnell, Scott; Hayden, Elizabeth; Pires, Jose; Graves, Herman; Candra, Hernando; Murphy, Andrew; Murphy, Andrew; Pires, Jose; Hogan, Rosemary; Sheron, Brian; Dricks, Victor; Warrnick, Greg; Reynoso, John; Lantz, Ryan; Markley, Michael

Subject: latest version of Q&As

All,

This is the first draft of the seismic-specific Q&As. It is pretty rough and there are many answers still missing, but people have contributed a lot and we thought it may be useful for many people trying to answer questions coming in.

We are continuing to compile the questions that come in and update the seismic Q&A document. If you have suggested changes, or want to provide missing answers, please forward them to me for compilation.

This is a living document and will be updated daily in the foreseeable future.

Annie

Dr. Annie Kammerer, PE
Senior Seismologist and Earthquake Engineer
US Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Washington DC 20555

(b)(6)	mobile
(b)(6)	BB

From: Dorman, Dan
Sent: Thursday, March 17, 2011 8:31 PM
To: ET07 Hoc
Subject: FW: Information Sheet Regarding Fukushima Nuclear Power Station
Attachments: FEPC Update to Information Sheet 11.03.17.doc

Bill,

Please get this over to the RST and PMT

Thanks

Dan

From: Hiltz, Thomas
Sent: Thursday, March 17, 2011 11:41 AM
To: Tschiltz, Michael; Bailey, Marissa; Kinneman, John; Haney, Catherine; Dorman, Dan; HOO Hoc
Subject: FW: Information Sheet Regarding Fukushima Nuclear Power Station

FYI

From: Kazuhiko Hiruta [mailto:Hiruta@denjiren.com]
Sent: Thursday, March 17, 2011 10:28 AM
To: Kazuhiko Hiruta
Subject: Information Sheet Regarding Fukushima Nuclear Power Station

Dear friends,

Please find information about the incidents at Fukushima Nuclear Power Station. If you have questions, please feel free to contact me.

Best regards,
Kazu

=====
Kazuhiko HIRUTA
FEPC Washington Office
"The Federation of Electric Power Companies of Japan"
1901 L Street NW Suite 600 Washington, DC 20036
tel: 202-466-3507
cell: (b)(6)
fax: 202-466-6758
=====

RRR/28

Update to Information Sheet Regarding the Tohoku Earthquake

The Federation of Electric Power Companies of Japan (FEPC) Washington DC Office

As of 10:15AM (EST), March 17, 2011

- Radiation Levels
 - At 9:20AM (JST) on March 17, radiation level at elevation of 1,000ft above Fukushima Daiichi Nuclear Power Station: 4,130 micro sievert.
 - At 9:20AM on March 17, radiation level at elevation of 300ft above Fukushima Daiichi Nuclear Power Station: 87,700 micro sievert.
 - At 11:10AM on March 17, radiation level at main gate (approximately 3,281 feet from Unit 2 reactor building) of Fukushima Daiichi Nuclear Power Station: 646.2 micro sievert.
 - At 7:50PM on March 17, radiation level outside main office building (approximately 1,640 feet from Unit 2 reactor building) of Fukushima Daiichi Nuclear Power Station: 3,599 micro sievert.
 - For comparison, a human receives 2,400 micro sievert per year from natural radiation in the form of sunlight, radon, and other sources. One chest CT scan generates 6,900 micro sievert per scan.
- Fukushima Daiichi Unit 1 reactor
 - Since 10:30AM on March 14, the pressure within the primary containment vessel cannot be measured.
 - At 12:50PM on March 17, pressure inside the reactor core: 0.185MPa.
 - At 12:50PM on March 17, water level inside the reactor core: 1.7 meters below the top of the fuel rods.
- Fukushima Daiichi Unit 2 reactor
 - At 12:25PM on March 16, pressure inside the primary containment vessel: 0.40MPaabs.
 - At 12:50PM on March 17, pressure inside the reactor core: -0.027MPa.
 - At 12:50PM on March 17, water level inside the reactor core: 1.8 meters below the top of the fuel rods.
- Fukushima Daiichi Unit 3 reactor
 - At 12:40PM on March 16, pressure inside the primary containment vessel: 0.23MPaabs.
 - At 6:15AM on March 17, pressure inside the suppression chamber was observed to fluctuate.
 - At 7:00AM on March 17, pressure inside the suppression chamber: 0.22MPa.
 - At 7:05AM on March 17, pressure inside the suppression chamber: 0.44MPa.
 - At 7:10AM on March 17, pressure inside the suppression chamber: 0.26MPa.
 - At 7:15AM on March 17, pressure inside the suppression chamber: 0.52MPa.
 - At 7:20AM on March 17, pressure inside the suppression chamber: 0.13MPa.
 - At 7:25AM on March 17, pressure inside the suppression chamber: 0.57MPa.
 - At 9:48AM on March 17, a Self Defense Forces helicopter made four water drops aimed for the spent fuel pool.
 - At 4:35PM on March 17, pressure inside the reactor core: 0.005MPa.

- At 4:35PM on March 17, water level inside the reactor core: 1.95 meters below the top of the fuel rods.
- At 7:05PM on March 17, a police water cannon began to shoot water aimed at the spent fuel pool until 7:22PM.
- At 7:35PM on March 17, five Self Defense Forces emergency fire vehicles shot water aimed at the spent fuel pool, until 8:09PM.
- Fukushima Daiichi Unit 5 reactor
 - At 2:00PM on March 16, the temperature of the spent fuel pool was measured at 145 degrees Fahrenheit.
- Fukushima Daiichi Unit 6 reactor
 - At 2:00PM on March 16, the temperature of the spent fuel pool was measured at 140 degrees Fahrenheit.

From: Khan, Omar
Sent: Thursday, March 17, 2011 3:06 PM
To: ET02 Hoc; ET07 Hoc
Subject: FW: High priority - Japan support - issue with the air card

From: Robbins, William
Sent: Thursday, March 17, 2011 10:10 AM
To: Khan, Omar; Veraart, Paul
Cc: Reyes, Debra; Osband, Tracy; Wisongo, Serge; Clark, Maurice; Tatwadhia, Amit; Erskine, Pamela; Bissett, Ryan; Jackson, Karen; Thompson, Matt; Walls, Craig
Subject: Re: High priority - Japan support - issue with the air card

Mr Khan,

Your Verizon Air Card with phone number (b)(6) has been set up for International dialing. Please see if it works for you now, you may need to re boot your laptop once.

Are the other Verizon Air Cards working for your team?

Thanks,

Bill Robbins
Asset Manager, L3
(b)(6)

From: Khan, Omar
To: Veraart, Paul; Robbins, William
Cc: Reyes, Debra; Osband, Tracy; Wisongo, Serge; Clark, Maurice; Tatwadhia, Amit; Erskine, Pamela; Bissett, Ryan; Jackson, Karen; Thompson, Matt; Walls, Craig
Sent: Thu Mar 17 06:11:37 2011
Subject: RE: High priority - Japan support - issue with the air card

The asset tag for the air card is (b)(6). I believe someone picked it up from the Operations Center

Thank You
Office 301-415-6995
Cell (b)(6)
e-mail Omar.Khan@nrc.gov

From: Veraart, Paul
Sent: Wednesday, March 16, 2011 10:10 AM
To: Robbins, William
Cc: Reyes, Debra; Osband, Tracy; Wisongo, Serge; Khan, Omar; Clark, Maurice; Tatwadhia, Amit; Erskine, Pamela; Bissett, Ryan
Subject: High priority - Japan support - issue with the air card

RRR/09

Bill,

Can you give a ring to Verizon on this issue? It sounds like the card has incurred such high overages that they are restricting access. But that is sheer speculation.

OMAR - We really need the asset tag or Telephone number of the Verizon Air Card, because without it, Verizon has nothing to look at or remove restrictions from.

Paul V

From: CSC
Sent: Wednesday, March 16, 2011 10:02 AM
To: Veraart, Paul
Subject: FW: high priority - Japan support - issue with the air card

From: Reyes, Debra
Sent: Wednesday, March 16, 2011 9:40 AM
To: CSC
Cc: Osband, Tracy
Subject: high priority - Japan support - issue with the air card

Good morning,

It was reported that there is an issue with an air card with one of the laptops assigned to Omar Khan located in the Op Center. It is not one of the laptops that was issued on Monday. They are getting popup - "over the limit". The laptop was in use and I could not get an asset number. Can someone please followup.

Thanks!

From: LIA04 Hoc
Sent: Thursday, March 17, 2011 10:46 AM
To: LIA07 Hoc
Subject: FW: NEED SENIOR AGENCY REVIEW OF THIS ANSWER TO AN IMPORTANT QUESTION

Jim – See below; as we discussed, Region I and IV State Liaison Officers are interested in receiving a more robust technical answer to this Q, if possible. Thanks much.

From: Maier, Bill
Sent: Thursday, March 17, 2011 9:43 AM
To: LIA04 Hoc; OST05 Hoc
Subject: NEED SENIOR AGENCY REVIEW OF THIS ANSWER TO AN IMPORTANT QUESTION

This is the question and answer that I would suggest needs to be polished. I think it needs senior agency blessing. We are likely to get many similar questions from many different sources.

Bill Maier

From: McIntyre, David
Sent: Wednesday, March 16, 2011 4:22 PM
To: Bonaccorso, Amy
Cc: Deavers, Ron; Turtill, Richard; Screnci, Diane; Uselding, Lara; Hannah, Roger; Harrington, Holly; Brenner, Eliot; McNamara, Nancy; Mitlyng, Viktoria
Subject: RE: Questions NRC RI Is Receiving - RESPONSE NEEDED ASAP

Suggest this:

The 10-mile EPZ reflects the area expected to be affected by design basis accidents at nuclear power plants, and we are confident that it would be adequate even for severe accidents. However, the 10-mile zone was always considered a base for emergency response that could be expanded if the situation warranted. The situation in Japan, with four reactors experiencing exceptional difficulties simultaneously, creates the need to expand the EPZ beyond the normal 10-mile radius.

We have said from the beginning of this crisis that the NRC would analyze this situation for any lessons that can be derived to improve our oversight of U.S. nuclear power plants. Emergency protection planning will be part of that review.

Dave Mc, OPA

From: McNamara, Nancy
Sent: Wednesday, March 16, 2011 3:24 PM
To: LIA04 Hoc; OST05 Hoc
Subject: Questions NRC RI Is Receiving - RESPONSE NEEDED ASAP
Importance: High

RRR/30

From: LIA05 Hoc
Sent: Wednesday, March 30, 2011 4:18 PM
To: FOIA Response.hoc Resource
Subject: FW: NEED SENIOR AGENCY REVIEW OF THIS ANSWER TO AN IMPORTANT QUESTION

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

~~*****FOR OFFICIAL USE ONLY*****
DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

From: Greten, Timothy [mailto:Timothy.Greten@dhs.gov]
Sent: Thursday, March 17, 2011 1:47 PM
To: LIA05 Hoc; Purvis, James
Cc: Vanessa E. Quinn; Tim Greten; Ralston, Michelle; Harry Sherwood; Andrew Seward; Steve Horwitz; Hamilton, Lisa
Subject: RE: NEED SENIOR AGENCY REVIEW OF THIS ANSWER TO AN IMPORTANT QUESTION

Harry Sherwood & team—please review this as soon as you are done talking at FRPCC –you will be first on deck.

Tim

Timothy A. Greten, PMP
Technological Hazards Division Deputy Director/
Federal Radiological Preparedness Coordination Committee Executive Secretariat
FEMA National Preparedness Directorate
Department of Homeland Security
1800 South Bell St.
Arlington, VA, 22202
timothy.greten@dhs.gov
office: (202) 646-3907
cell: (b)(6)

From: prvs=0505f6d80=LIA05.Hoc@nrc.gov [mailto:prvs=0505f6d80=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Thursday, March 17, 2011 1:35 PM
To: james.purvis@dhs.gov
Cc: Vanessa E. Quinn; Tim Greten; Ralston, Michelle; Harry Sherwood; Andrew Seward; Steve Horwitz
Subject: FW: NEED SENIOR AGENCY REVIEW OF THIS ANSWER TO AN IMPORTANT QUESTION

If this response is good with you, then let me know, we will go with this.
FEMA REP Liaison

NRC Operations Center
(301) 816-5187

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From: OST05 Hoc
Sent: Thursday, March 17, 2011 11:10 AM
To: LIA05 Hoc
Subject: FW: NEED SENIOR AGENCY REVIEW OF THIS ANSWER TO AN IMPORTANT QUESTION

At the bottom of the string of emails are the initial questions that were asked to generate the original OPA suggested response.

From: Maier, Bill
Sent: Thursday, March 17, 2011 9:43 AM
To: LIA04 Hoc; OST05 Hoc
Subject: NEED SENIOR AGENCY REVIEW OF THIS ANSWER TO AN IMPORTANT QUESTION

This is the question and answer that I would suggest needs to be polished. I think it needs senior agency blessing. We are likely to get many similar questions from many different sources.

Bill Maier

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We have said from the beginning of this crisis that the NRC would analyze this situation for any lessons that can be derived to improve our oversight of U.S. nuclear power plants. Emergency protection planning will be part of that review.

Dave Mc, OPA

From: McNamara, Nancy
Sent: Wednesday, March 16, 2011 3:24 PM
To: LIA04 Hoc; OST05 Hoc

Subject: Questions NRC RI Is Receiving - RESPONSE NEEDED ASAP

Importance: High

1. How is it that the NRC has always defined the emergency planning zone to be out to 10 miles based on worse case scenarios, yet they just recommended a 50 mile evacuation?
2. What does a PAR out to 50 miles say about the current 10 mile EPZ used here in the United States?

From: McNamara, Nancy

Sent: Wednesday, March 16, 2011 3:24 PM

To: LIA04 Hoc; OST05 Hoc

Subject: Questions NRC RI Is Receiving - RESPONSE NEEDED ASAP

Importance: High

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From: [NRC Announcement](#)
To: [NRC Announcement](#)
Subject: Employee Resources: When Times Get Tough, Remember Your EAP
Date: Thursday, March 17, 2011 10:13:40 AM

NRC Daily Announcements

Highlighted Information and Messages

Thursday March 17, 2011 -- Headquarters Edition

Employee Resources: When Times Get Tough, Remember Your EAP

Employee Resources: When Times Get Tough, Remember Your EAP

NRC's Employee Assistance Program (EAP) supports employees and family members during these difficult times when NRC is responding to the tragic events in Japan. Free and confidential services are available include counseling, critical incident stress management (CISM), and more. CISM helps individuals and work groups return more readily to full productivity after traumatic events such as the recent catastrophe in Japan.

An EAP consultant is available to you 24/7 at 1-800-869-0276. You may also visit our contractor's [Website](#) to learn more about the services provided by your EAP; go to member access and click on EAP Employee Orientation: Your passcode is



(2011-03-17 00:00:00.0)

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[Frequently Asked Questions About the NRC Daily Announcements Email](#)

BRB/31

From: [NRC Announcement](#)
To: [NRC Announcement](#)
Subject: Event: Supplemental Information on Today's All-Employees Meeting
Date: Friday, March 18, 2011 10:36:07 AM

NRC Daily Announcements

Highlighted Information and Messages

Friday March 18, 2011 -- Headquarters Edition

Event: Supplemental Information on Today's All-Employees Meeting

Event: Supplemental Information on Today's All-Employees Meeting

As mentioned in a previous Network Announcement, there will be an All-Employees meeting today at 2:00 p.m. in the TWFN auditorium, led by EDO Bill Borchardt, to discuss events in Japan. VTC will be available to the regions, TTC, and headquarters satellite offices. Please note the following additional information:

- The bridgeline (call-in number: 888-820-8960; passcode: (b)(6)) is intended for employees who are teleworking today. If you are not working at home, please attend the meeting in person or via VTC to avoid overloading the bridgelines.
- There will be a sign-language interpreter in the auditorium for the hearing-impaired.
- The event will videotaped for later viewing.
- The slides that will be used during the presentation are available on the OEDO Sharepoint site.



(2011-03-18 00:00:00.0)

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The latest Announcements are always on the [NRC@WORK Home Page](#).

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[Frequently Asked Questions About the NRC Daily Announcements Email](#)

Subject: FW: 2011 Pacific Basin Earthquake/Tsunami ESF-8 Conference Call
Location: Phone: 877-700-1237 and Pass code: (b)(6) [Mute PH *6]
Start: Thu 3/17/2011 11:00 AM
End: Thu 3/17/2011 12:00 PM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Organizer: OS Secretarys Operations Center

-----Original Appointment-----

From: OS Secretarys Operations Center [mailto:hhs.soc@hhs.gov]

Sent: Wednesday, March 16, 2011 2:12 PM

To: (b)(6)

(b)(6)

(b)(6)

RRR/32

(b)(6)

(b)(6)

Please mute your phone by pressing *6 when not speaking

2011 Pacific Basin Earthquake/Tsunami ESF-8 Conference Call

AGENDA:

Phone: 877-700-1237 and Pass code: (b)(6)

Objective: Discussion of current response operations and future actions.

HHS – Opening Comment

- Quick summary on any HHS issues/concerns

EMG Updates:

EMG OPS/FIELD OPS/OFRD OPS

EMG Logs

EMG Plans

EMG A/F

Public Affairs

Other OPDIVs/STAFF DIVs:

FDA update

CDC update

Supporting Agencies:

DOS update

NRC update

USDA update

EPA update

FAA update

Other supporting Agencies update

Questions:

Adjournment & Closing Comments:

Time for the next conference call: TBD

Please mute your phone by pressing *6 when not speaking

From: LIA07 Hoc
Sent: Thursday, March 17, 2011 2:03 PM
To: OST04 Hoc
Subject: FW: Information Sheet Regarding Fukushima Nuclear Power Station
Attachments: FEPC Update to Information Sheet 11.03.17.doc; image001.jpg

For the m drive, books, etc.

Thanks,

Jim

From: HOO Hoc
Sent: Thursday, March 17, 2011 11:42 AM
To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC
Subject: FW: Information Sheet Regarding Fukushima Nuclear Power Station

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo@nrc.sgov.gov



From: Hiltz, Thomas
Sent: Thursday, March 17, 2011 11:41 AM
To: Tschiltz, Michael; Bailey, Marissa; Kinneman, John; Haney, Catherine; Dorman, Dan; HOO Hoc
Subject: FW: Information Sheet Regarding Fukushima Nuclear Power Station

FYI

From: Kazuhiko Hiruta [mailto:Hiruta@denjiren.com]
Sent: Thursday, March 17, 2011 10:28 AM
To: Kazuhiko Hiruta
Subject: Information Sheet Regarding Fukushima Nuclear Power Station

Dear friends,

Please find information about the incidents at Fukushima Nuclear Power Station. If you have questions, please feel free to contact me.

Best regards,
Kazu

=====

RRR/33

Kazuhiko HIRUTA

FEPC Washington Office

"The Federation of Electric Power Companies of Japan"

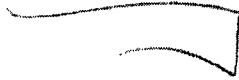
1901 L Street NW Suite 600 Washington, DC 20036

tel: 202-466-3507

cell: (b)(6)

fax: 202-466-6758

=====



Update to Information Sheet Regarding the Tohoku Earthquake

The Federation of Electric Power Companies of Japan (FEPC) Washington DC Office

As of 10:15AM (EST), March 17, 2011

- Radiation Levels
 - At 9:20AM (JST) on March 17, radiation level at elevation of 1,000ft above Fukushima Daiichi Nuclear Power Station: 4,130 micro sievert.
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 - At 12:25PM on March 16, pressure inside the primary containment vessel: 0.40MPaabs.
 - At 12:50PM on March 17, pressure inside the reactor core: -0.027MPa.
 - At 12:50PM on March 17, water level inside the reactor core: 1.8 meters below the top of the fuel rods.
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 - At 4:35PM on March 17, pressure inside the reactor core: 0.005MPa.

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 - At 2:00PM on March 16, the temperature of the spent fuel pool was measured at 145 degrees Fahrenheit.
- Fukushima Daiichi Unit 6 reactor
 - At 2:00PM on March 16, the temperature of the spent fuel pool was measured at 140 degrees Fahrenheit.

From: Nelson, Robert
Sent: Friday, March 18, 2011 12:25 PM
To: LIA06 Hoc
Subject: RE: Action: Please forward to head of the Liaison Team
Attachments: image001.png

OK. Thanks!

NELSON

From: LIA06 Hoc
Sent: Friday, March 18, 2011 11:59 AM
To: Nelson, Robert
Cc: LIA07 Hoc; LIA08 Hoc
Subject: RE: Action: Please forward to head of the Liaison Team

Bob,

We initially were going to institute regular telecons with NEI but that was turned off last night. I don't know why but it was after Chairman Jaczko talked to the NEI Chief Exec.

Mark Lombard
Liaison Team Director
U.S. Nuclear Regulatory Commission
Operations Center

From: LIA07 Hoc
Sent: Friday, March 18, 2011 10:17 AM
To: LIA06 Hoc; LIA08 Hoc
Cc: Nelson, Robert
Subject: FW: Action: Please forward to head of the Liaison Team

FYI

From: Nelson, Robert
Sent: Friday, March 18, 2011 9:56 AM
To: LIA07 Hoc
Cc: Chernoff, Harold
Subject: Action: Please forward to head of the Liaison Team

NEI is staffing 24/7. They are pursuing many of the same Qs as NRC. Have we coordinated information needs or sharing of info with NEI? If not, I suggest that we do so.

R.A. Nelson

Robert A. Nelson
Deputy Director
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

RRR/34



E-mail: robert.nelson@nrc.gov | Office: (301) 415-1453 | Cell: (b)(6) | Fax: (301) 415-2102

From: [NRC Announcement](#)
To: [NRC Announcement](#)
Subject: Employee News: NRC Viewing of the NRC All-Hands Meeting to Address the Nuclear Crisis In Japan
Date: Friday, March 18, 2011 8:51:38 AM

NRC Daily Announcements

Highlighted Information and Messages



Friday March 18, 2011 -- Headquarters Edition

[Employee News: NRC Viewing of the NRC All-Hands Meeting to Address the Nuclear Crisis in Japan](#)

Employee News: NRC Viewing of the NRC All-Hands Meeting to Address the Nuclear Crisis in Japan

On Friday, March 18, 2011, at 2:00 p.m., there will be an All-Hands Meeting in the Two White Flint North (TWFN) Auditorium to address the ongoing nuclear crisis at the Fukushima Nuclear Reactor site in Japan. Staff is encouraged to view the proceedings at one of the following video teleconferencing (VTC) locations:

- One White Flint Commission Hearing Room
- TWFN Exhibit Area
- TWFN Building 2B5
- One White Flint North Building 3B4
- Executive Boulevard Building 1B15
- Twinbrook Building 5E01
- Church Street Building 2C19
- Gateway Building 4B02
- Region I*
- Region II*
- Region III*
- Region IV*
- Technical Training Center*

*Regional and TTC staff will be notified of the VTC viewing location by their VTC coordinator.

The meeting will also be broadcast throughout the White Flint Complex on cable channels 46 and 47. Staff without access to VTC facilities may access the audio portion of the proceedings by utilizing the NRC telephone bridge line by calling 888-820-8960; pass code:

For more information about event viewing locations, contact [Jason Wright](#) at 415-5446 or [Christine Kundrat](#) at 415-6130.



(2011-03-18 00:00:00.0)

[View item in a new window](#)

The latest Announcements are always on the [NRC@WORK Home Page](#).

RRR/05

[Announcements by Date](#) | [Announcements by Category](#)

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[Frequently Asked Questions About the NRC Daily Announcements Email](#)

From: LIA05 Hoc
Sent: Friday, March 18, 2011 4:04 PM
To: Greten, Timothy
Subject: RE: FEMA EPZ Fact Sheet

Understand.

Bonnie Sheffield 0700-1500
Ken Wierman 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

*****FOR OFFICIAL USE ONLY*****
DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

From: Greten, Timothy [mailto:Timothy.Greten@dhs.gov]
Sent: Friday, March 18, 2011 4:01 PM
To: LIA05 Hoc; Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Cc: Purvis, James
Subject: RE: FEMA EPZ Fact Sheet

Its being worked on. lot going on here.

Timothy A. Greten, PMP
Technological Hazards Division Deputy Director/
Federal Radiological Preparedness Coordination Committee Executive Secretariat
FEMA National Preparedness Directorate
Department of Homeland Security
1800 South Bell St.
Arlington, VA, 22202
timothy.greten@dhs.gov
office: (202) 646-3907
cell: (b)(6)

From: prvs=0514256dd=LIA05.Hoc@nrc.gov [mailto:prvs=0514256dd=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Friday, March 18, 2011 3:58 PM
To: Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Cc: Purvis, James
Subject: FW: FEMA EPZ Fact Sheet
Importance: High

Can someone at HQ or Mr. Purvis respond to this request?

Bonnie Sheffield 0700-1500
Ken Wierman 1500-2300
FEMA REP Liaison
NRC Operations Center

BRR/3e

(301) 816-5187

*****FOR OFFICIAL USE ONLY*****

DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

From: OST05 Hoc
Sent: Friday, March 18, 2011 3:56 PM
To: LIA05 Hoc
Subject: FW: FEMA EPZ Fact Sheet

From: Logaras, Harral
Sent: Friday, March 18, 2011 3:26 PM
To: OST05 Hoc
Subject: RE: FEMA EPZ Fact Sheet

Kim,

At the risk of being a pest, the information is indeed helpful, but I do not feel comfortable sharing it because the document doesn't have any source/authority identification. Please ask FEMA if they would consider branding the document.

Sincerely,

Harral Logaras
U. S. NRC Region III
Regional Government Liaison
630-829-9659

Link to the *Award Winning NRC Information Digest* <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/v22/sr1350v22.pdf>

Link to NRC Fact Sheets and Brochures <http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/>

From: OST05 Hoc
Sent: Friday, March 18, 2011 9:48 AM
To: Logaras, Harral
Subject: RE: FEMA EPZ Fact Sheet

Harral,

Our FEMA coordinator has indicated that their regulations and procedures (44 CFR 350 and NUREG 0654) provided some of the context for the fact sheet.

From: Logaras, Harral
Sent: Friday, March 18, 2011 10:32 AM
To: OST05 Hoc
Subject: RE: FEMA EPZ Fact Sheet

Kim,

Thank you, your timing is absolutely perfect. Anticipating a questions from our State counterparts, I wonder if we know the context or document this information is taken from?

Sincerely,

Harral Logaras
U. S. NRC Region III
Regional Government Liaison
630-829-9659

Link to the *Award Winning* NRC Information Digest <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/v22/sr1350v22.pdf>

Link to NRC Fact Sheets and Brochures <http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/>

From: OST05 Hoc

Sent: Friday, March 18, 2011 9:20 AM

To: McIntyre, David; Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tiff, Doug; Trojanowski, Robert; Woodruff, Gena; Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark; Easson, Stuart; Flannery, Cindy; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard; Virgilio, Rosetta

Subject: FEMA EPZ Fact Sheet

FYI –

Attached is a FEMA-generated fact sheet on EPZs that can be used for immediate use.

Kim Lukes
State Liaison – Liaison Team
Incident Response Center

From: LIA04 Hoc
Sent: Friday, March 18, 2011 4:59 PM
To: Maier, Bill
Subject: RE: Pacific Public Health Messaging: Radiation Release in Japan

Thanks!

From: Maier, Bill
Sent: Friday, March 18, 2011 4:54 PM
To: LIA04 Hoc
Subject: FW: Pacific Public Health Messaging: Radiation Release in Japan

Rich,

NO HHS REGIONAL CALL TONIGHT AT 8PM YOUR TIME.

(You get a breather.)

From: Fenner, Jerold (HHS/ASPR/OPEO) [mailto:Jerold.Fenner@hhs.gov]
Sent: Friday, March 18, 2011 3:53 PM
To: Maier, Bill
Subject: Re: Pacific Public Health Messaging: Radiation Release in Japan

We are holding the next week, 23rd we will send an invite

Thanks

Jerold Fenner, MPH
Regional Emergency Coordinator, Region IX
U.S. Department of Health and Human Services
Office of the Assistant Secretary for Preparedness & Response
90 7th Street
San Francisco, CA 94103
Office: (415) 633-5501
Cell: (b)(6)
Jerold.Fenner@HHS.Gov

From: Maier, Bill [mailto:Bill.Maier@nrc.gov]
Sent: Friday, March 18, 2011 04:39 PM
To: Fenner, Jerold (HHS/ASPR/OPEO)
Cc: LIA04 Hoc <LIA04.Hoc@nrc.gov>
Subject: RE: Pacific Public Health Messaging: Radiation Release in Japan

Jerry,

Can you confirm that there is a Pacific Regional HHS call scheduled for 5pm PDT (which for NRC HQs' benefit would be **2000 EDT**)? If so, is the dial-in procedure the same as is shown below?

RRR/37

Please **respond to all** so NRC HQs will be informed.

Thanks,

Bill Maier
USNRC Region 4

From: Fenner, Jerold (HHS/ASPR/OPEO)

Sent: Tuesday, March 15, 2011 8:12 PM

To: Gaynor, Mary Kathleen M.D. (Kate); Arthy G. Nena; O'Mallan, Josie (CDC dphss.guam.gov); Peter Judicpa; William Kando; michael.poblete; siitia@doh.as; Ben Sili; Jacqueline Solaita; Melinda Lawrence - Palau; (b)(6); (b)(6); Joanes Sarofalpiy; Lisa Barrow; Bryce, Michael (HHS/ASPR/OPEO); Toby L. Clairmont; Gallo, Bill (CDC/OSTLTS/DPHCD); Owolabi, Mojisola; Arcibal, Laura K.; Rayle, Vicky (CDC/OSTLTS/DPHCD); Walmsley, John (HHS/OASH); Cathy Wasem; Michael, Gretchen (HHS/ASPR/COO); Sanders, Melissa (HHS/ASPR/OPEO); Sheehan, Kevin (HHS/ASPR/OPEO); Joseph Kevin Villagomez; Pavlin, Dr Boris (FSM); Yano, Victor (CDC palau-health.net); Seiuli Elisapeta Ponsusua, American Samoa DPCP; (b)(6); michael.epp@pihoa.org; Gaynor, Mary Kathleen M.D. (Kate); Langidrik, Justina <Marshall Is> (b)(6); McMichael, Janice R. (CDC/OPHPR/DSLR); Simons, Nadine M (HHS/OASH)

Cc: Lusk, Jeff; Clark, Kevin; Walz, Kim; Matz, Shawn; Zuiderhoek, Terrie; Dombrowski, Justin; Shigetani, Marilyn; Todd.L.Smith@aphis.usda.gov; Buell, Rick (HHS/ASPR/OPEO); Yee, James C (FDA/ORA); Kreis, Jane M (FDA/ORA); Corson, Corinne (ACF); Francesca.Austin@va.gov; Voirin, Anthony J LTCOL MIL USAF; Schultz, Herb (HHS/IGA/ORD)

Subject: Pacific Public Health Messaging: Radiation Release in Japan

Friends,

The US Department of Health and Human Services would like to facilitate a call to coordinate public health messaging and information sharing among Federal, State and Pacific Jurisdictional partners related to radiological events in Japan.

On the call we will ask Hawaii, the Pacific Jurisdictions, Federal and other Pacific Partners to discuss their actions and challenges related to public health messaging. If you have any questions or need more information, please let me know.

Time: 5 PM Pacific Time (5 PM Pacific is now 2 PM in HI; 1 PM in AS; 12 Noon in RMI; 11 AM in Pohnpei; 10 AM in CNMI, Guam, Chuuk and Yap; 9 AM in Palau).

Call in Information: 888-455-7847, Passcode - (b)(6)

Thank you,

Jerry

Jerold Fenner, MPH, MEP
Regional Emergency Coordinator, Region IX
US Dept. of Health & Human Services
Office of the Assistant Secretary for Preparedness & Response
90 7th Street, Suite 3-350
San Francisco, CA 94103

Office: (415) 633-5501
Cell: (b)(6)
Jerold.Fenner@hhs.Gov

From: LIA04 Hoc
Sent: Friday, March 18, 2011 5:01 PM
To: Maier, Bill
Subject: RE: Pacific Public Health Messaging: Radiation Release in Japan

Title of the "right now" call is: State Health Officials Conference Call

From: Maier, Bill
Sent: Friday, March 18, 2011 4:54 PM
To: LIA04 Hoc
Subject: FW: Pacific Public Health Messaging: Radiation Release in Japan

Rich,

NO HHS REGIONAL CALL TONIGHT AT 8PM YOUR TIME.

(You get a breather.)

From: Fenner, Jerold (HHS/ASPR/OPEO) [mailto:Jerold.Fenner@hhs.gov]
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We are holding the next week, 23rd we will send an invite

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USNRC Region 4

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Cc: Lusk, Jeff; Clark, Kevin; Walz, Kim; Matz, Shawn; Zuiderhoek, Terrie; Dombrowski, Justin; Shigetani, Marilyn; Todd.L.Smith@aphis.usda.gov; Buell, Rick (HHS/ASPR/OPEO); Yee, James C (FDA/ORA); Kreis, Jane M (FDA/ORA); Corson, Corinne (ACF); Francesca.Austin@va.gov; Voirin, Anthony J LTCOL MIL USAF; Schultz, Herb (HHS/IGA/ORD)

Subject: Pacific Public Health Messaging: Radiation Release in Japan

Friends,

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Thank you,

Jerry

Jerold Fenner, MPH, MEP
Regional Emergency Coordinator, Region IX
US Dept. of Health & Human Services
Office of the Assistant Secretary for Preparedness & Response
90 7th Street, Suite 3-350
San Francisco, CA 94103

Office: (415) 633-5501
Cell: (b)(6)
Jerold.Fenner@hhs.Gov

From: Piccone, Josephine
Sent: Friday, March 18, 2011 8:58 AM
To: McGrady-Finneran, Patricia; Turtill, Richard; Luehman, James; OST05 Hoc; LIA04 Hoc; Virgilio, Rosetta; Jackson, Deborah
Subject: RE: Governors call from DOE

a separate message that we can send out with high priority

From: McGrady-Finneran, Patricia
Sent: Friday, March 18, 2011 8:54 AM
To: Turtill, Richard; Piccone, Josephine; Luehman, James; OST05 Hoc; LIA04 Hoc; Virgilio, Rosetta; Jackson, Deborah
Subject: RE: Governors call from DOE

I am working on the "Notes" from yesterday afternoon's OAS\CRCPD Teleconference. These "Notes" will get emailed/distributed to all of the RCPDs later today. Is there any way we "sink" this information into the "Notes" or do you want to keep this a separate message. Just thinking we might want to incorporate.



Patricia McGrady-Finneran
Program Manager, USNRC
Division of Intergovernmental Liaison and Rulemaking (DILR)
Intergovernmental Liaison Branch (ILB)
Patricia.McGrady-Finneran@nrc.gov
Phone: (301) 415-2326
Fax: (301) 415-3502

From: Turtill, Richard
Sent: Friday, March 18, 2011 8:51 AM
To: Piccone, Josephine; McGrady-Finneran, Patricia; Luehman, James; OST05 Hoc; LIA04 Hoc; Virgilio, Rosetta; Jackson, Deborah
Subject: Re: Governors call from DOE

Ok

Richard Turtill
Sent from NRC Blackberry
(b)(6)

From: Piccone, Josephine
To: Turtill, Richard; McGrady-Finneran, Patricia; Luehman, James; OST05 Hoc; LIA04 Hoc; Virgilio, Rosetta; Jackson, Deborah
Sent: Fri Mar 18 08:42:40 2011
Subject: RE: Governors call from DOE

Rich, please develop a script that is approved by ops (early info not complete, etc) and staff can work with Jim Luehman on getting e-mail to RCPDs with cc to RSAOs and RSLOs

RRR/39

From: Turtill, Richard
Sent: Friday, March 18, 2011 8:37 AM
To: McGrady-Finneran, Patricia; Piccone, Josephine; Luehman, James; OST05 Hoc; LIA04 Hoc; Virgilio, Rosetta; Jackson, Deborah
Subject: Re: Governors call from DOE

Josie/Deborah, State L Team: will probably need strategy to communicate with the oas/crcpd to tell them that last night's call was only with west coast and pac isle countries since many were anticipating involvement. RSLs are all aware of the final nature of call, so they may be best to handle. (Lee Cox of NC already knows) Rich

Richard Turtill
Sent from NRC Blackberry
(b)(6)

From: McGrady-Finneran, Patricia
To: Turtill, Richard; Piccone, Josephine; Luehman, James
Sent: Fri Mar 18 07:13:40 2011
Subject: FW: Governors call from DOE

Good Morning,

This call came in from New Mexico's SLO Mike Ortiz regarding the "Governors Call" that was scheduled for last night.



Patricia McGrady-Finneran
Program Manager, USNRC
Division of Intergovernmental Liaison and Rulemaking (DILR)
Intergovernmental Liaison Branch (ILB)
Patricia.McGrady-Finneran@nrc.gov
Phone: (301) 415-2326
Fax: (301) 415-3502

From: Ortiz, Michael, NMENV [mailto:michael.ortiz1@state.nm.us]
Sent: Thursday, March 17, 2011 5:42 PM
To: McGrady-Finneran, Patricia
Subject: Governors call from DOE

Who is calling and was there an e-mail sent out our Governors office has not be notified.

Michael Ortiz, Chief
Radiation Control Bureau

From: Turtill, Richard
Sent: Friday, March 18, 2011 8:51 AM
To: Piccone, Josephine; McGrady-Finneran, Patricia; Luehman, James; OST05 Hoc; LIA04 Hoc; Virgilio, Rosetta; Jackson, Deborah
Subject: Re: Governors call from DOE

Ok

Richard Turtill
Sent from NRC Blackberry

(b)(6)

From: Piccone, Josephine
To: Turtill, Richard; McGrady-Finneran, Patricia; Luehman, James; OST05 Hoc; LIA04 Hoc; Virgilio, Rosetta; Jackson, Deborah
Sent: Fri Mar 18 08:42:40 2011
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Sent: Friday, March 18, 2011 8:37 AM
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Subject: Re: Governors call from DOE

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Richard Turtill
Sent from NRC Blackberry

(b)(6)

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To: Turtill, Richard; Piccone, Josephine; Luehman, James
Sent: Fri Mar 18 07:13:40 2011
Subject: FW: Governors call from DOE

Good Morning,

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Patricia McGrady-Finneran
Program Manager, USNRC

RRR/40

Division of Intergovernmental Liaison and Rulemaking (DILR)
Intergovernmental Liaison Branch (ILB)
Patricia.McGrady-Finneran@nrc.gov
Phone: (301) 415-2326
Fax: (301) 415-3502

From: Ortiz, Michael, NMENV [mailto:michael.ortiz1@state.nm.us]
Sent: Thursday, March 17, 2011 5:42 PM
To: McGrady-Finneran, Patricia
Subject: Governors call from DOE

Who is calling and was there an e-mail sent out our Governors office has not be notified.

Michael Ortiz, Chief
Radiation Control Bureau

Subject: FW: Japan Listserv: Tonight's Briefing Call, Additional Resources
Start: Fri 3/18/2011 7:00 PM
End: Fri 3/18/2011 7:30 PM
Recurrence: (none)
Organizer: OST05 Hoc
Categories: Red Category

From: LIA04 Hoc
Sent: Friday, March 18, 2011 4:18 PM
To: OST05 Hoc
Subject: FW: Japan Listserv: Tonight's Briefing Call, Additional Resources
Categories: Red Category

From: Rothman, Mika L. [mailto:(b)(6)]
Sent: Friday, March 18, 2011 4:17 PM
To: Rothman, Mika L.
Subject: RE: Japan Listserv: Tonight's Briefing Call, Additional Resources

Folks,

Below is the updated agenda for tonight's call at 7PM. Secretary Vilsack will be speaking.

EPA wanted to flag that they have just revised their website, which includes a new address:
<http://www.epa.gov/japan2011/>. Please be sure to update all external communications to reflect this new web address.

3.18.2011 AGENDA

Introductions.....IGA
Brief Update of the Situation.....IGA/NSS

BRR/41

Update on Food/Agriculture Issues.....USDA/FDA
Weather Update & Forecast.....DOS
Humanitarian Relief/Search & Rescue Update.....USAID
Immigration and Port-of-Entry Concerns.....DHS/CBP
Open Discussion/Questions.....ALL
Summary.....IGA

From: Rothman, Mika L.
Sent: Friday, March 18, 2011 1:10 PM
To: Rothman, Mika L.
Cc: Munoz, Cecilia; Rathod, Nicholas S.; Block, Michael R.; Baggetto, Maude L.; Galbraith, Charlie
Subject: Japan Listserv: Tonight's Briefing Call, Additional Resources

Friends,

Please find attached notes from last night's Briefing Call as well as today's USAID fact sheet. We are hosting an additional briefing call tonight for west coast states and the territories with senior officials from NOAA, USAID, DHS, and FDA. Below is the call-in information for those who would like to listen in. We will also be distributing notes from tonight's call to this listserv.

CALL INFORMATION:

March 18, 2011

7:00 PM EST

Dial in: (800) 288-8967

In lieu of a passcode, please provide title of call (b)(6)

Please let me know if you have any questions or if you have additional resources to share with this group. Thanks,

Mika

Mika Rothman

Office of Intergovernmental Affairs|The White House

(o) 202.456.4759|(c) (b)(6)



From: Greten, Timothy <Timothy.Greten@dhs.gov>
Sent: Friday, March 18, 2011 4:53 PM
To: LIA05 Hoc; Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Cc: Kish, James
Subject: RE: FYI - *Once Again!* Media Advisory: Nuclear Regulatory Commission to Hold Public Meeting on NRC Response to Recent Japan Event

Is there going to be a DHS/FEMA leadership presence with NRC, or is this strictly an NRC show?

NUCLEAR REGULATORY COMMISSION TO HOLD PUBLIC MEETING ON NRC RESPONSE TO RECENT JAPAN EVENT

The U.S. Nuclear Regulatory Commission will be briefed by its staff on the NRC's response to the ongoing nuclear event in Japan in a public meeting on March 21 at 9 a.m. at NRC Headquarters, 11555 Rockville Pike, Rockville, Md. The commission meeting will be open to public observation and will be webcast at: <http://www.nrc.gov/public-involve/public-meetings/webcast-live.html>.

Due to limited space availability, the meeting will be set up for a CBS broadcast network pool camera crew. Broadcast media outlets interested in receiving the feed should contact the network pool at 202-457-4444. For still photographers, this meeting will be pooled with AP, Reuters, AFP and Getty only.

In order for us to try to ensure sufficient seating for reporters, please notify the Office of Public Affairs at the contact information above if you plan to attend. There will be additional space available in our auditorium on a first-come, first-serve basis.

Pool photographers will have limited space at the meeting in which to take photos. Movement must be kept to a minimum so as not to be distracting and entry into the inner well closest to the Commission briefing table is prohibited. Plan to arrive in advance of the meeting at the Marinelli Road entrance of the NRC with proper media credentials. The NRC offices are located across the street from the White Flint Metro station. Parking is available at the White Flint metro parking garage on Marinelli Road.

Timothy A. Greten, PMP
Technological Hazards Division Deputy Director/
Federal Radiological Preparedness Coordination Committee Executive Secretariat
FEMA National Preparedness Directorate
Department of Homeland Security
1800 South Bell St.
Arlington, VA, 22202
timothy.greten@dhs.gov
office: (202) 646-3907
cell: (b)(6)

From: prvs=0514256dd=LIA05.Hoc@nrc.gov [mailto:prvs=0514256dd=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Friday, March 18, 2011 4:39 PM

RRR/42

To: Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: FW: FYI - *Once Again!* Media Advisory: Nuclear Regulatory Commission to Hold Public Meeting on NRC Response to Recent Japan Event

NRC Public Meeting Information.

Bonnie Sheffield 0700-1500
Ken Wierman 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

*****FOR OFFICIAL USE ONLY*****

DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

From: Weber, Michael
Sent: Friday, March 18, 2011 4:37 PM
To: LIA05 Hoc; OST02 HOC
Subject: FYI - *Once Again!* Media Advisory: Nuclear Regulatory Commission to Hold Public Meeting on NRC Response to Recent Japan Event

From: OPA Resource
Sent: Friday, March 18, 2011 4:26 PM
To: Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlyng, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffrey; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason
Subject: *Once Again!* Media Advisory: Nuclear Regulatory Commission to Hold Public Meeting on NRC Response to Recent Japan Event

I apologize, this time with the attachment!

Greetings,

This was issued at approximately 3pm today via Listserve. It was not posted to the live web.

Office of Public Affairs
US Nuclear Regulatory Commission
301-415-8200

From: ET07 Hoc
Sent: Friday, March 18, 2011 3:09 PM
To: Ma, May
Cc: Marshall, Jane
Subject: FW: ops center "above and beyond" cost for Japan effort

Importance: High

May:

I did the numbers, and we will spend 78FTE (12,246K) in staffing the NRC response center for three months to respond to the Japan crisis.

We will also be maintaining about 18 staff in Japan for the duration of this response. So, please add their time and travel costs.

Jane

From: Marshall, Jane
Sent: Friday, March 18, 2011 12:05 PM
To: ET07 Hoc
Subject: FW: ops center "above and beyond" cost for Japan effort
Importance: High

From: Ma, May
Sent: Friday, March 18, 2011 11:49 AM
To: Marshall, Jane
Subject: FW: ops center "above and beyond" cost for Japan effort

FYI – OCFO Qs, DPR responses, and DSO responses.

From: Stapleton, Bernard
Sent: Friday, March 18, 2011 11:36 AM
To: Ma, May
Cc: Holahan, Patricia; Masse, Todd; Riffle, Deani; Dodmead, James; VandenBerghe, John
Subject: RE: ops center "above and beyond" cost for Japan effort
Importance: High

May,

Costs from date of event thru June 3 (three months) – 350 hours overtime (3wk x50 hr;10wk x20 hr)

Total estimated costs thru FY2011 (30 weeks) – 690 hours overtime (17wk x20hr additional)

From an IT standpoint, we don't see any increased costs. However, if we are directed to procure better print capabilities or communications systems for classified interests, that may result in additional costs (such requests have not yet been made).

RRR/43

From a staffing standpoint, ISB is currently staffing 24/7 which is resulting in some overtime. ISB is anticipating 50 hours per week (between 5 people). I don't see running 24/7 for more than three weeks, then backing off to an "on-call" status (perhaps 20 hours total per week).

Bernard (Bern) Stapleton

Chief, Information Security Branch
U.S. Nuclear Regulatory Commission
(301) 415-2214 O
(301) 415-2190 F

From: Holahan, Patricia
Sent: Friday, March 18, 2011 10:39 AM
To: Stapleton, Bernard; Riffle, Deani; Masse, Todd
Subject: Fw: ops center "above and beyond" cost for Japan effort

Can we get May an answer please? It's only IT funding

From: Abraham, Susan
To: Holahan, Patricia; Stapleton, Bernard
Sent: Fri Mar 18 09:56:26 2011
Subject: FW: ops center "above and beyond" cost for Japan effort

A heads up on information that we're collecting for an OCFO response on Japan. Specifically...OCFO is asking if NSIR can project (a rough estimation) the cost associated with Japan effort thru the end of FY 2011?

We are trying to get this information as quickly as possible to OCFO. May is the POC. Thanks, Susan

From: Ma, May
Sent: Friday, March 18, 2011 9:53 AM
To: Brown, Cris; McDermott, Brian
Cc: Rheaume, Cynthia; Abraham, Susan; Jackson, Karen; VandenBerghe, John
Subject: RE: ops center "above and beyond" cost for Japan effort

Good one. I will contact DSO.

From: Brown, Cris
Sent: Friday, March 18, 2011 9:51 AM
To: Ma, May; McDermott, Brian
Cc: Rheaume, Cynthia; Abraham, Susan; Jackson, Karen; VandenBerghe, John
Subject: Re: ops center "above and beyond" cost for Japan effort

Has the IT question been asked of DSO?
Cris Brown
IT Branch Chief
NSIR/PMDA/ITB
Office: 301-415-5768
BlackBerry: (b)(6)

From: Ma, May
To: McDermott, Brian; Brown, Cris
Cc: Rheaume, Cynthia; Abraham, Susan; Jackson, Karen
Sent: Fri Mar 18 09:37:21 2011
Subject: ops center "above and beyond" cost for Japan effort

Hi, Brian/Cris,

Based on the conversation with Cris and DPR staff responses, NSIR doesn't have additional funding needs for the Japan effort thru April 9.

However, OCFO is asking if NSIR can project (a rough estimation) the cost associated with Japan effort thru the end of FY 2011? As you know, OCFO needs this info to request reprogramming funds from OMB.

Thanks much!
May

From: McDermott, Brian
Sent: Friday, March 18, 2011 9:12 AM
To: Ma, May
Subject: RE: ACTION: Ops Center Costs for response

Thanks. I am in the center today.

From: Ma, May
Sent: Friday, March 18, 2011 8:22 AM
To: ET07 Hoc
Cc: McDermott, Brian; Rheaume, Cynthia; Abraham, Susan
Subject: RE: ACTION: Ops Center Costs for response

ET07? (Tony? Brian?) , here is what we provided to OCFO. Now I am working on a total cost and will run it by you or Brian before I provide to OCFO.

Thanks.
May

From: ET07 Hoc
Sent: Friday, March 18, 2011 8:10 AM
To: Ma, May
Subject: FW: ACTION: Ops Center Costs for response
Importance: High

May,

I understand from Tony McMurtray that you were involved in this. Can you confirm this was provided to OCFO?

From: McDermott, Brian
Sent: Thursday, March 17, 2011 5:51 PM
To: ET07 Hoc

Subject: ACTION: Ops Center Costs for response
Importance: High

A hard copy of this task was passed to the ET ST at shift turnover. Pls confirm it is on our task list and scheduled for action before the morning. Thanks.

From: Rheame, Cynthia
Sent: Thursday, March 17, 2011 2:47 PM
To: McMurtray, Anthony
Cc: Ma, May; McDermott, Brian
Subject: FW: Ops Center Costs
Importance: High

Tony - can you help us with any of these questions? I believe OCFO is going to use this data to go for a reprogramming, so we need a response by COB today. Thanks!

Cynthia Rheame

Director, Program Management, Policy
Development and Analysis
Nuclear Security and Incident Response
(301)415-6538
Cynthia.Rheame@nrc.gov

From: Golder, Jennifer
Sent: Thursday, March 17, 2011 1:57 PM
To: Rheame, Cynthia
Cc: Mitchell, Reggie; Williams-Johnson, Patrice; Allwein, Russell; Peterson, Gordon
Subject: Ops Center Costs
Importance: High

Hi Cindy,

OCFO needs information from NSIR asap to support the reprogramming request. It is related to Japan. I need to know the following:

1. How many people are in the ops center Ops Center
 - a. How many shifts – I believe 3 shifts of 8 hours each – how many people for each shift
 - b. How long are we expecting to staff the ops center above and beyond the normal everyday level (1 month, 2 months, 3 months?)
2. Are there any increased IT costs b/c of the situation. Susan mentioned yesterday that there needs to be increased contractor support – if so, how much and for how long?
3. Any other administrative costs or technical costs? If so for what, how much, and how long?

I will need this by first thing tomorrow morning. We are not looking for precision – we need estimates.

Sorry for the short notice!

Jennifer Golder

Budget Director
Office of the Chief Financial Officer
United States Nuclear Regulatory Commission

From: OST05 Hoc
Sent: Friday, March 18, 2011 11:05 AM
To: LIA11 Hoc
Cc: Maier, Bill
Subject: FW: Japan rad map

Beth,

Here is a suggestion for Federal aid.

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

From: Maier, Bill
Sent: Thursday, March 17, 2011 11:23 PM
To: LIA04 Hoc; OST05 Hoc
Cc: Howell, Linda
Subject: FW: Japan rad map

Offered by one of my state stakeholders as a suggestion/aid.

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

From: Free, Robert [mailto:Robert.Free@dshs.state.tx.us]
Sent: Thursday, March 17, 2011 2:48 PM
To: Maier, Bill
Subject: FW: Japan rad map

Bill, I received this map from A former employee of ours. I'm curious to know if this information is near correct. One of the cities listed on the table at the bottom indicates readings of 850 nGy/hr. I can't tell how far Ibaraki is from Fukushima.

I also wonder if EPA could offer to deploy some of it's portable monitoring equipment to Japan in near site locations.

Just a thought. I know you have a lot on your plate now.

Robert Free, Manager
Environmental Monitoring Group
Inspections Unit
512 834-6770 x 2022 Office
(b)(6) Cell

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

From: Joseph F. Thiel (b)(6)
Sent: Thursday, March 17, 2011 1:28 PM
To: Ratliff, Richard; Richard Ratliff; Free, Robert
Cc: Clarence Born
Subject: Japan rad map

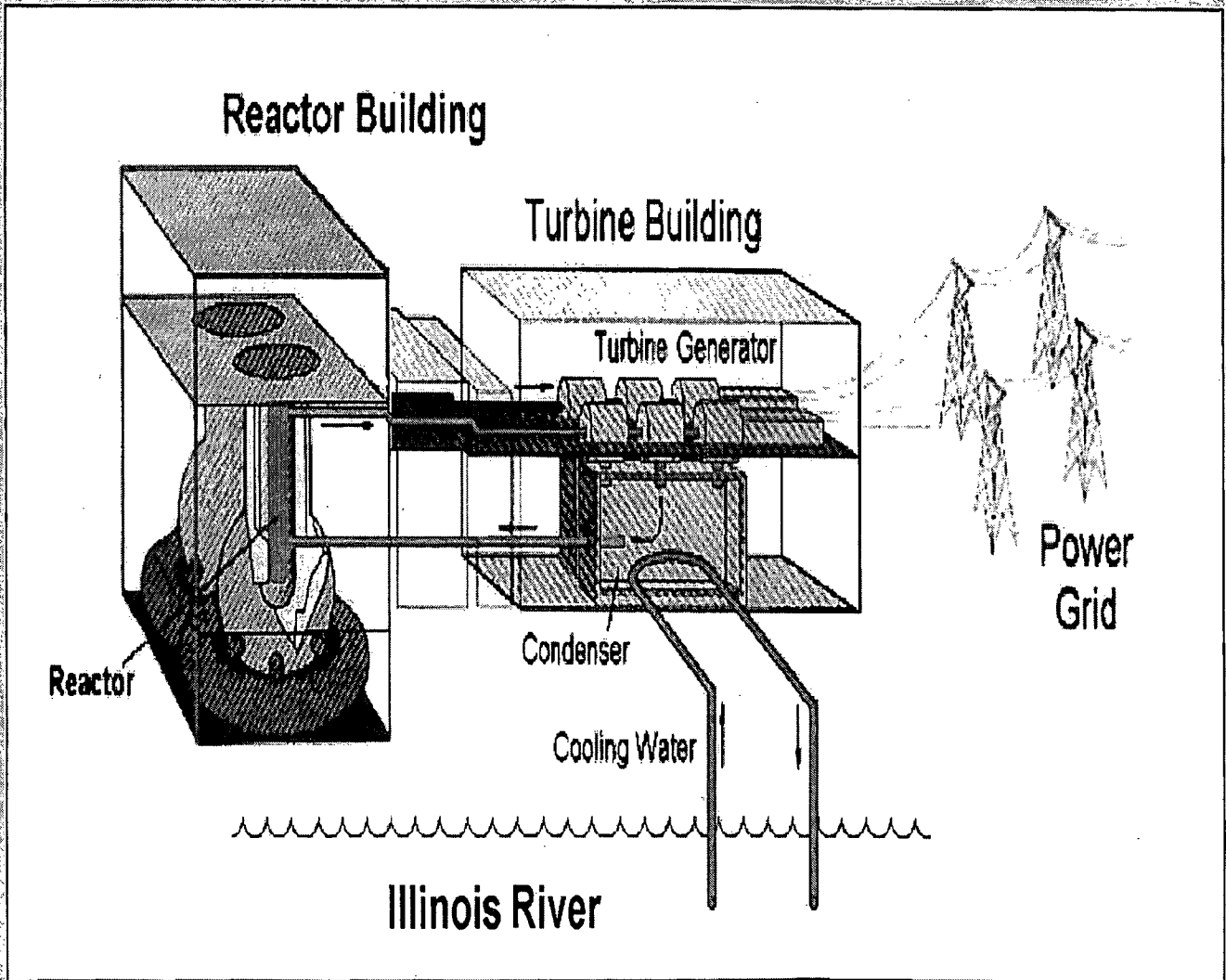
<http://www.targetmap.com/viewer.aspx?reportId=4870>

RRR/44



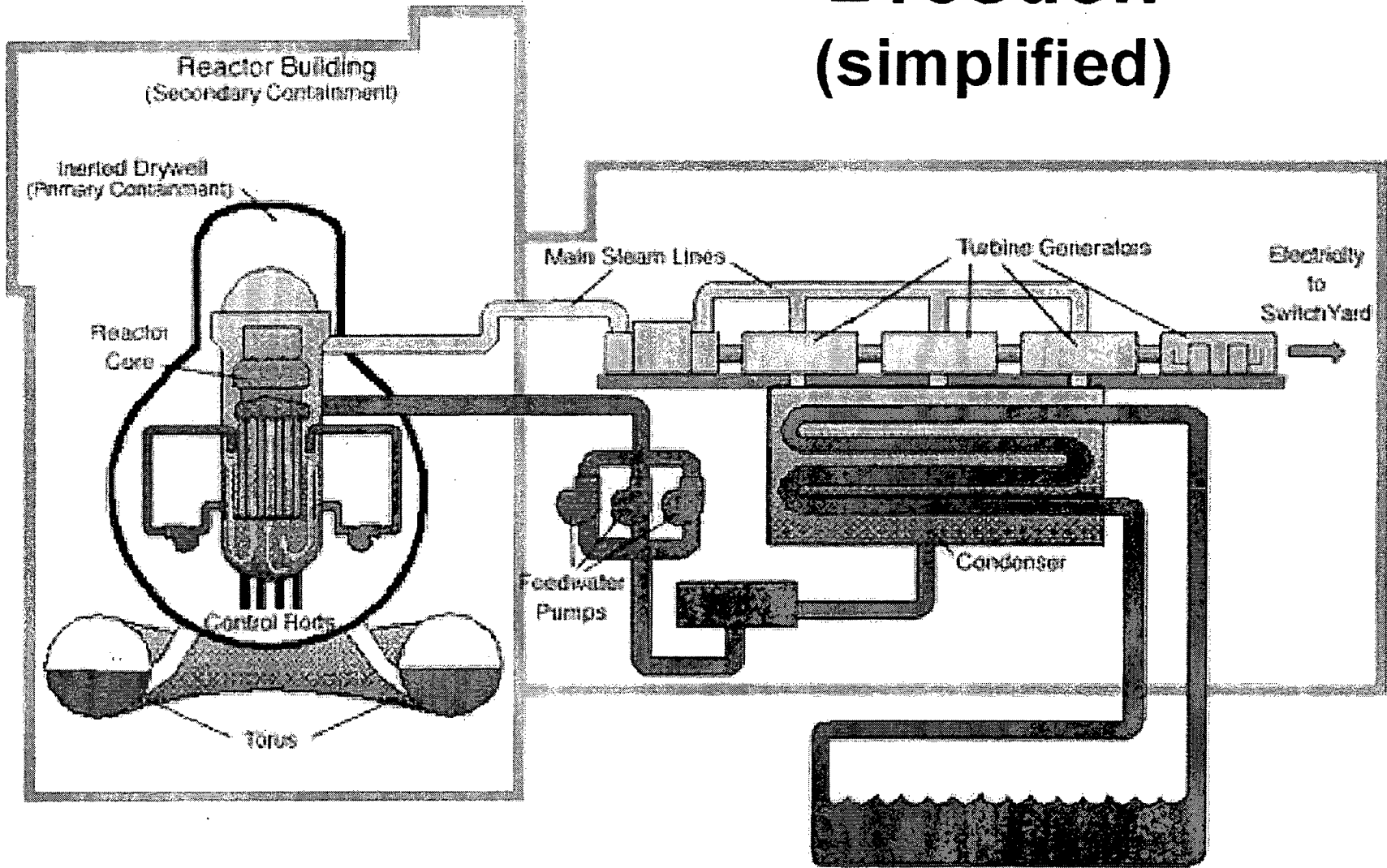
Fukushima Daiichi

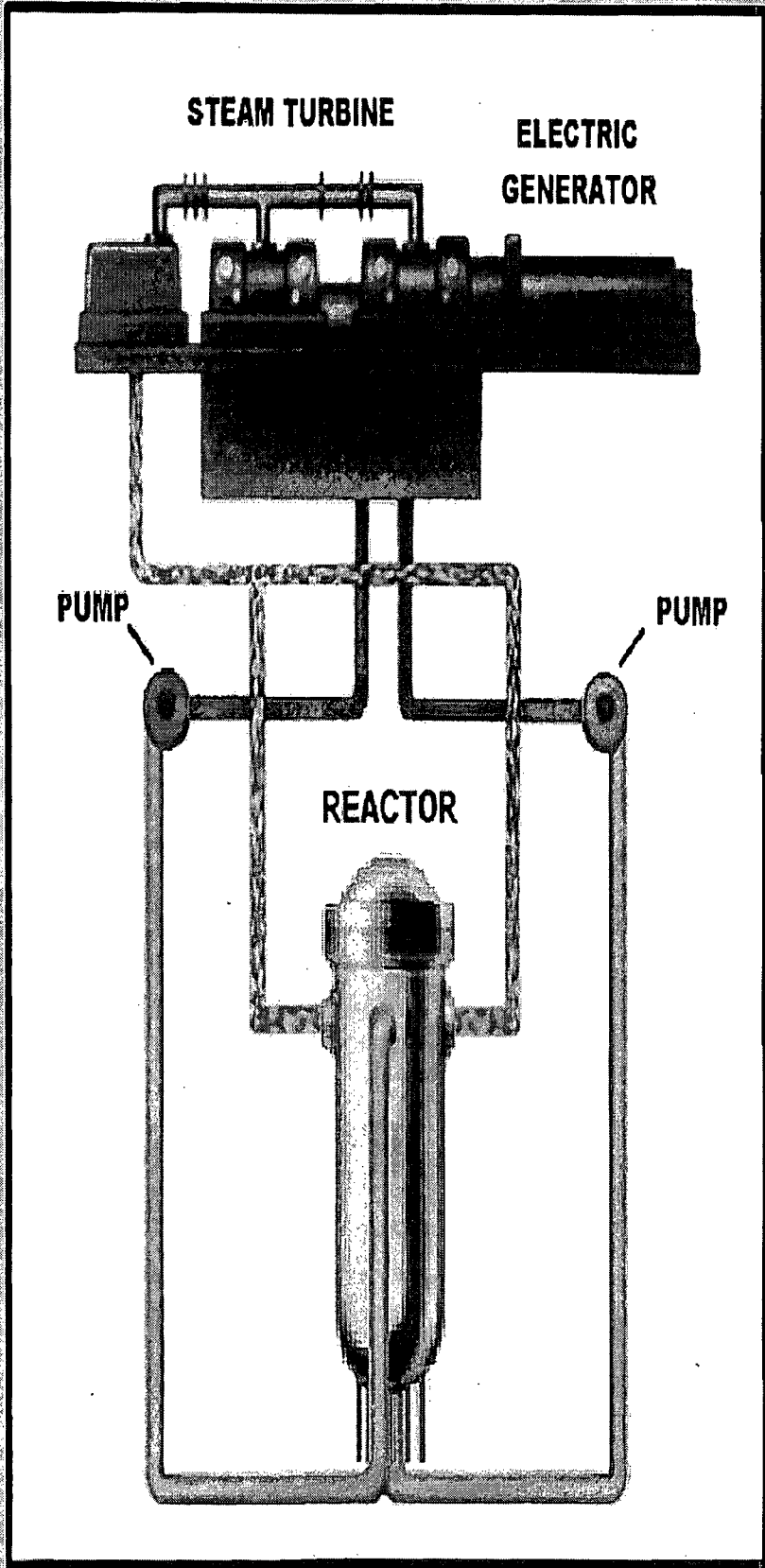
Dresden (simplified)



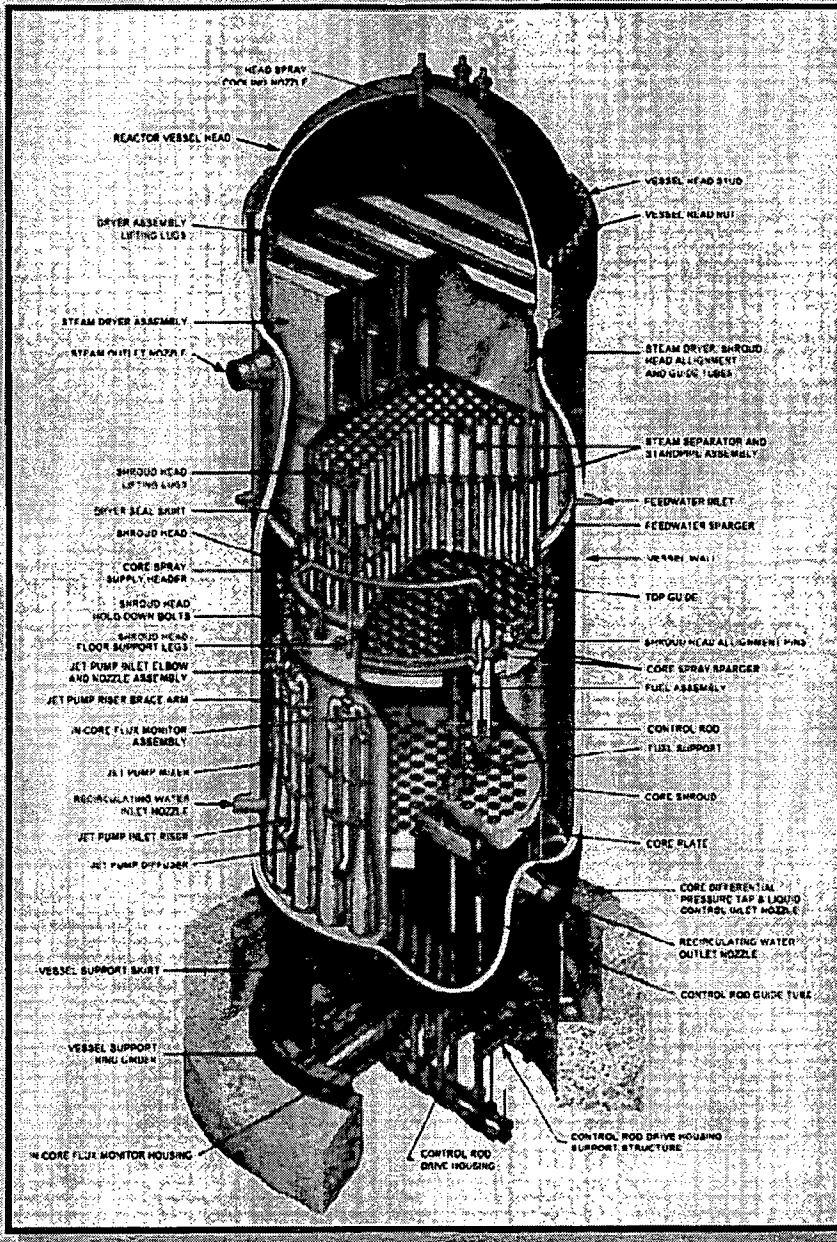
Boiling Water Reactor

Dresden (simplified)





BWR Nuclear Steam Supply System

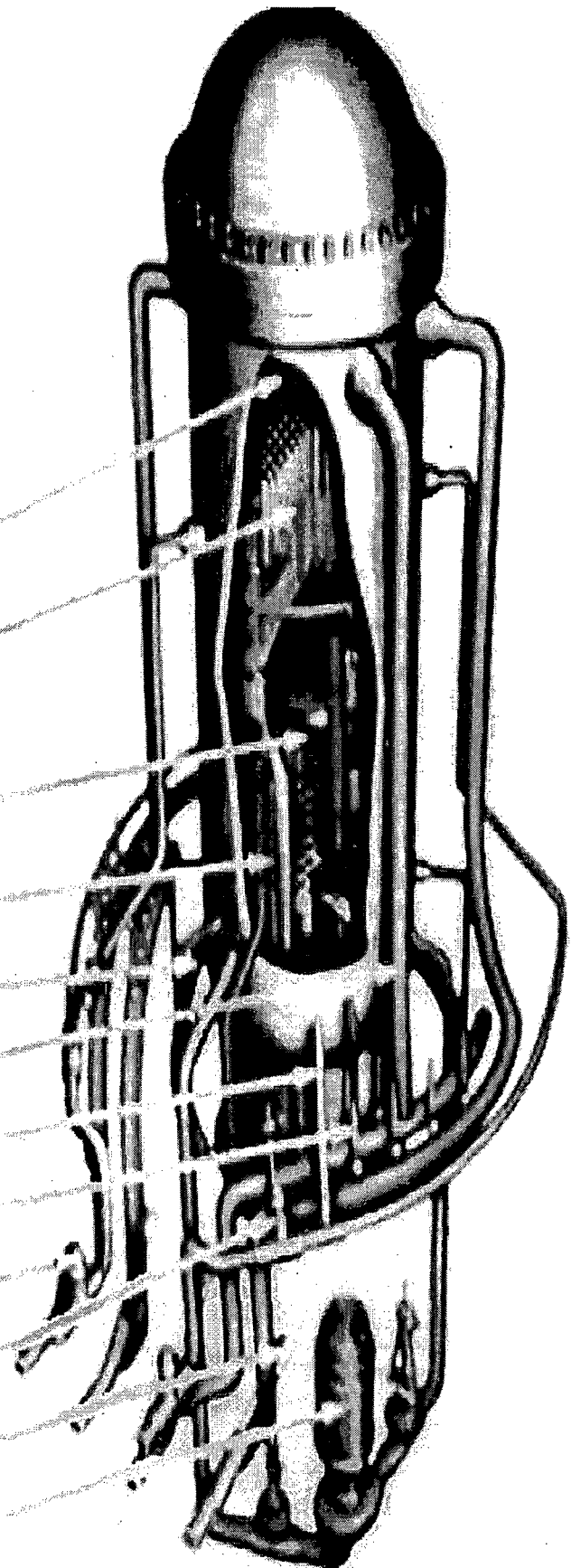


General Electric Boiling Water Reactor Vessel

BWR/3

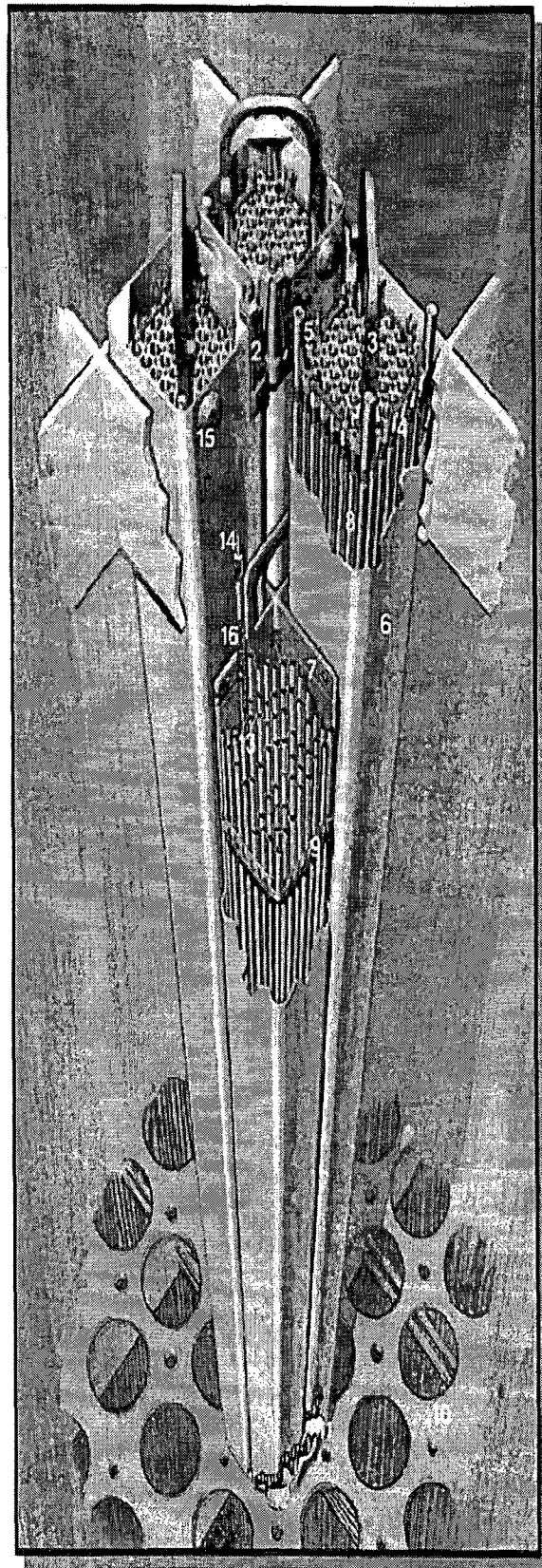
Nuclear Steam Supply System

Steam Dryer
Moisture Separators
Reactor Core
Jet Pump
Jet Pump Manifold
Steam Lines
Feedwater Lines
Safety Valves
Feedwater Check Valves
Feedwater Inlet Valves
Steam Isolation Valves
Recirculation Pump



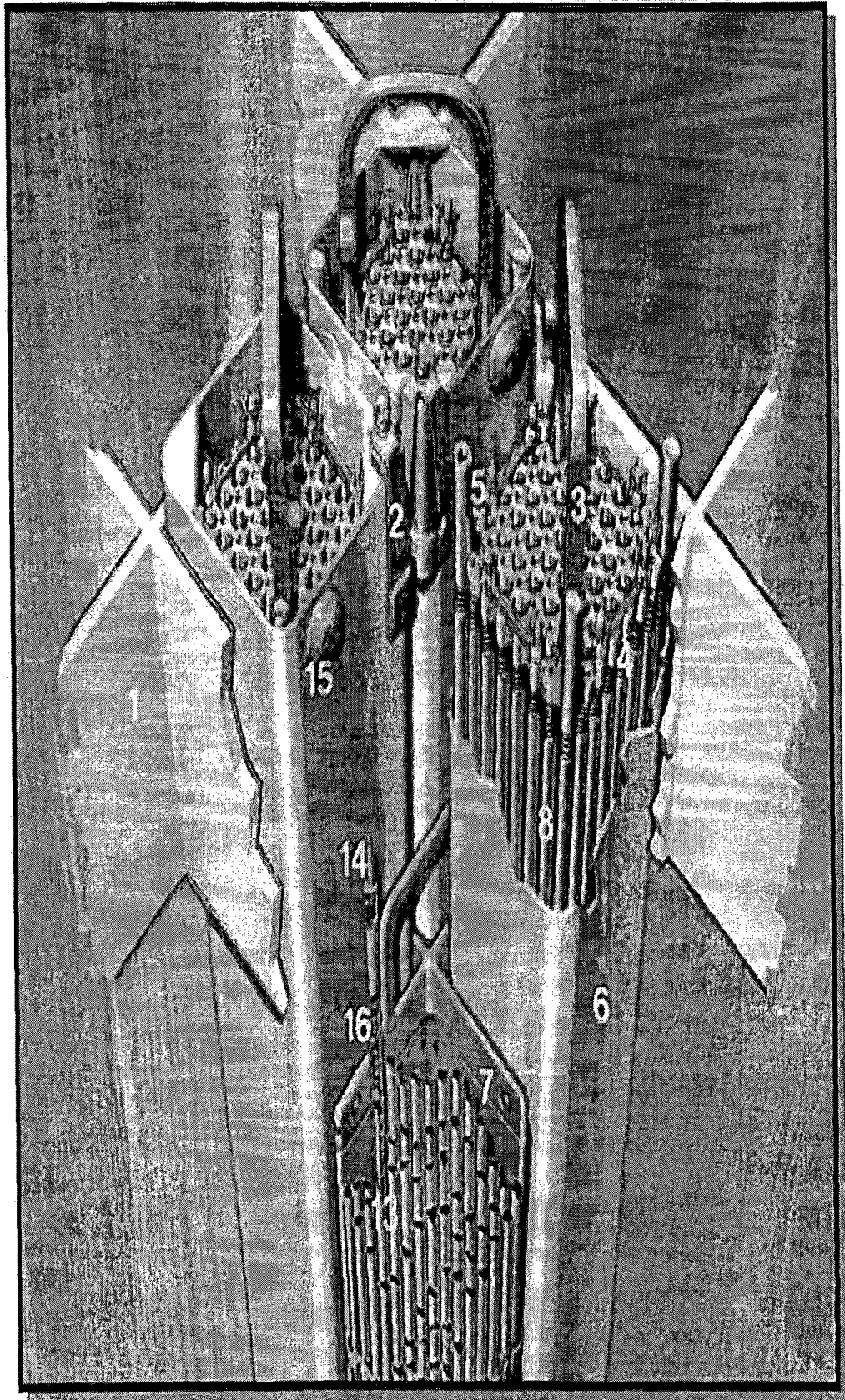
Typical BWR Fuel Assemblies

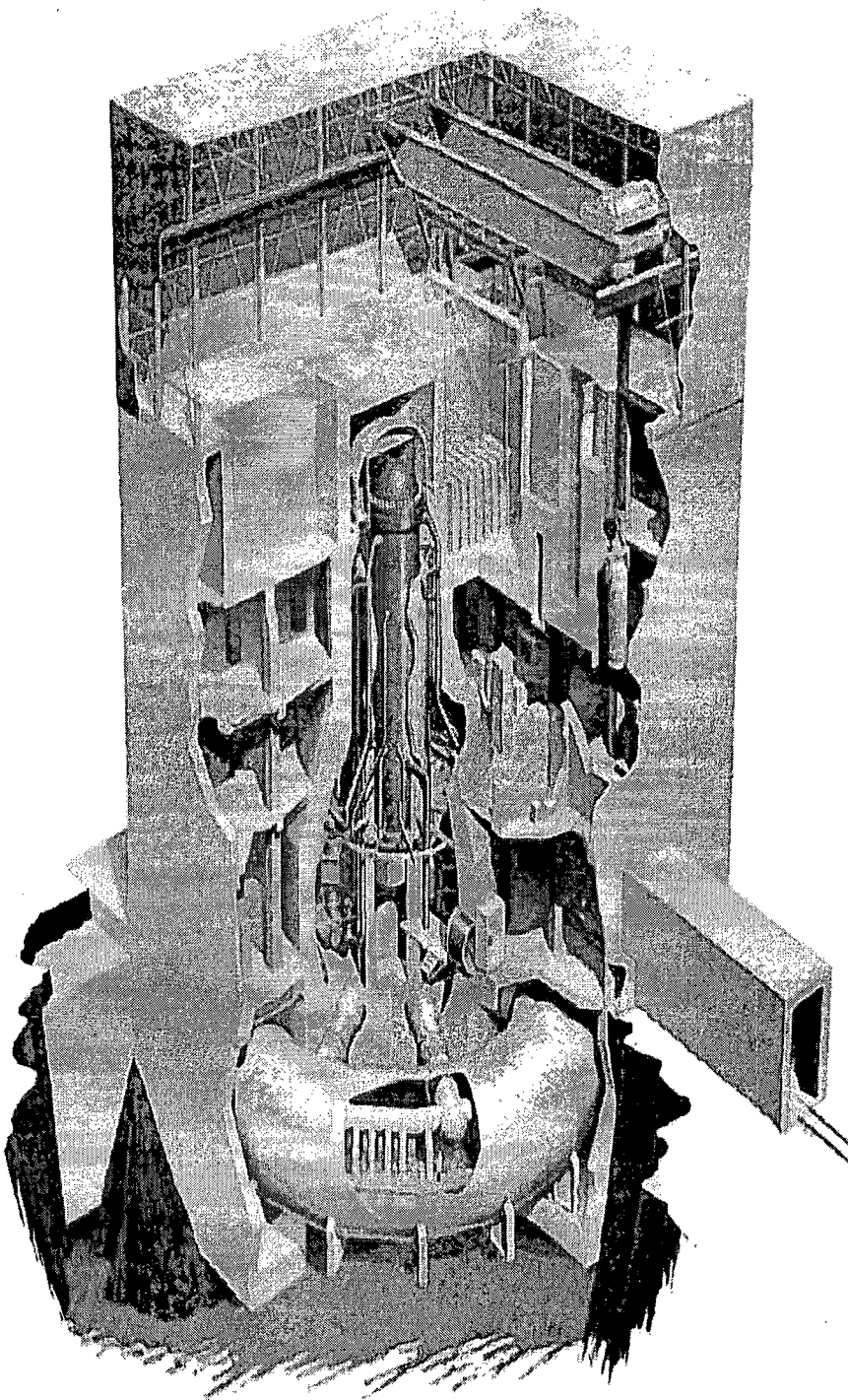
- 1.TOP FUEL GUIDE
- 2.CHANNEL
FASTENER
- 3.UPPER TIE
PLATE
- 4.EXPANSION
SPRING
- 5.LOCKING TAB
- 6.CHANNEL
- 7.CONTROL ROD
- 8.FUEL ROD
- 9.SPACER
- 10.CORE PLATE
ASSEMBLY
- 11.LOWER
TIE PLATE
- 12.FUEL SUPPORT
PIECE
- 13.FUEL PELLETS
- 14.END PLUG
- 15.CHANNEL
SPACER
- 16.PLENUM
SPRING



Typical BWR Fuel Assemblies

- 1.TOP FUEL GUIDE
- 2.CHANNEL
FASTENER
- 3.UPPER TIE
PLATE
- 4.EXPANSION
SPRING
- 5.LOCKING TAB
- 6.CHANNEL
- 7.CONTROL ROD
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- 12.FUEL SUPPORT
PIECE
- 13.FUEL PELLETS
- 14.END PLUG
- 15.CHANNEL
SPACER
- 16.PLENUM
SPRING

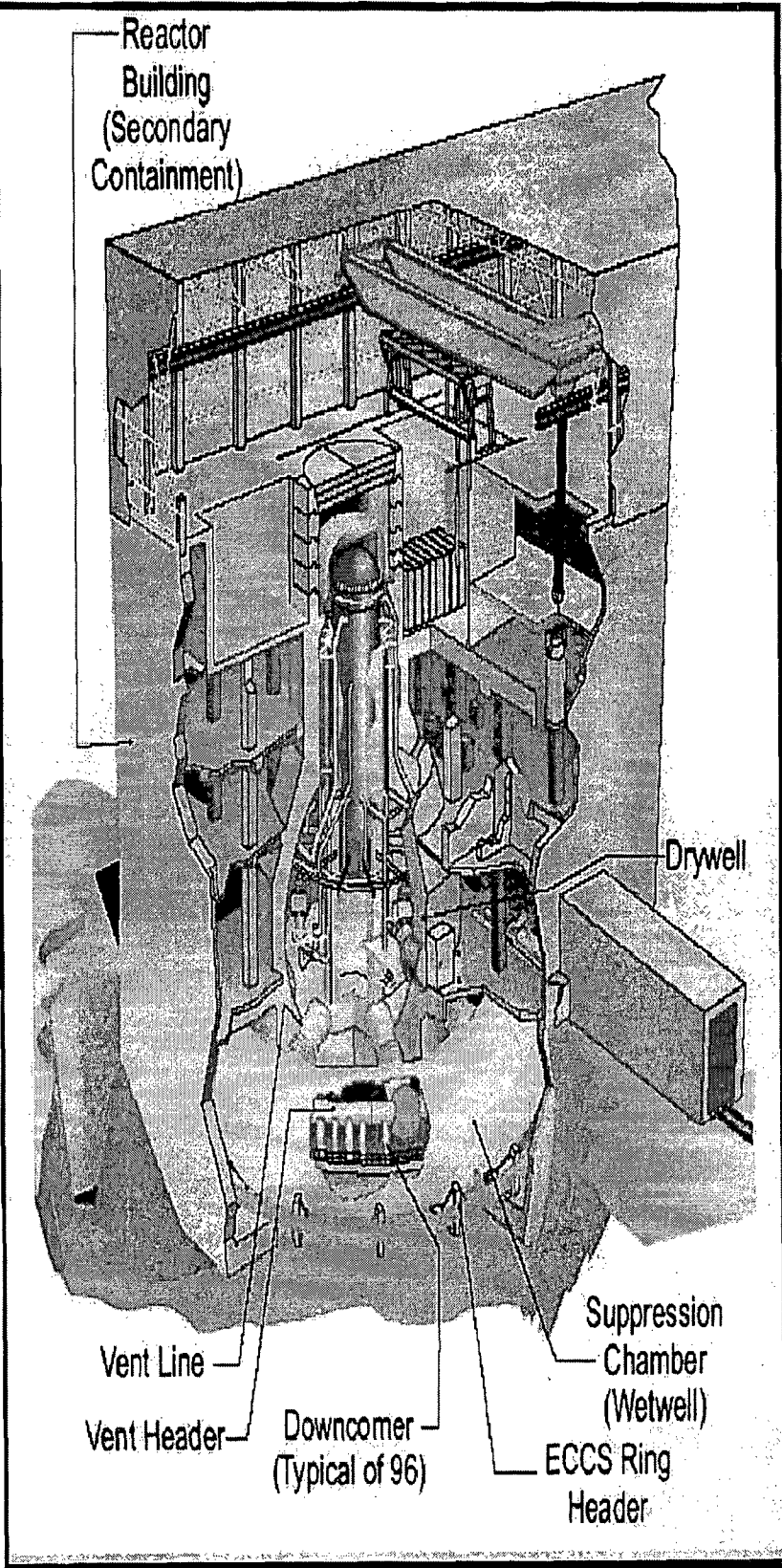




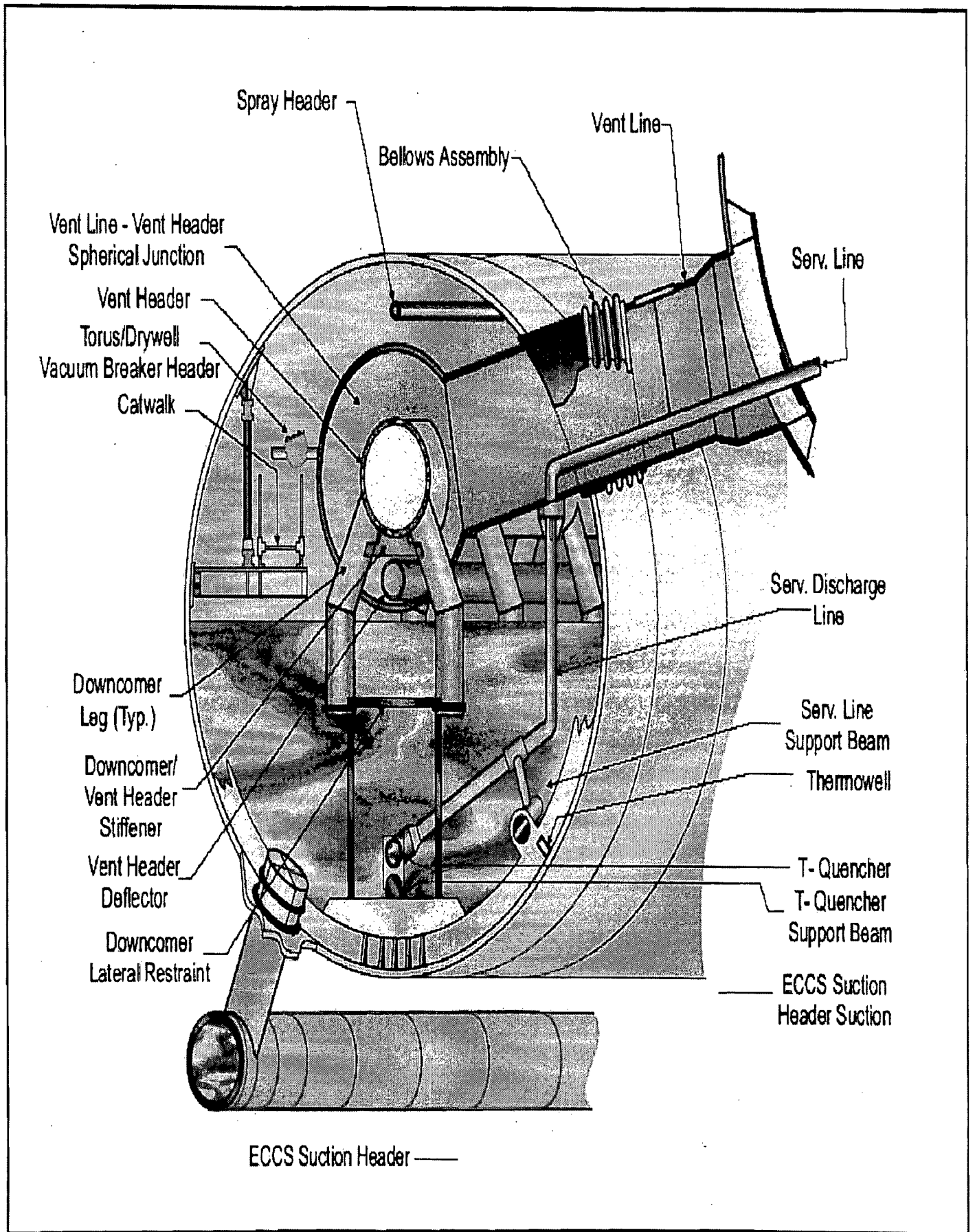
Typical BWR Mark I Containment

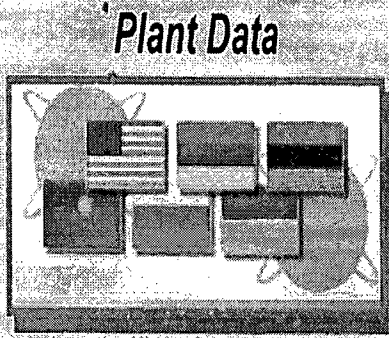
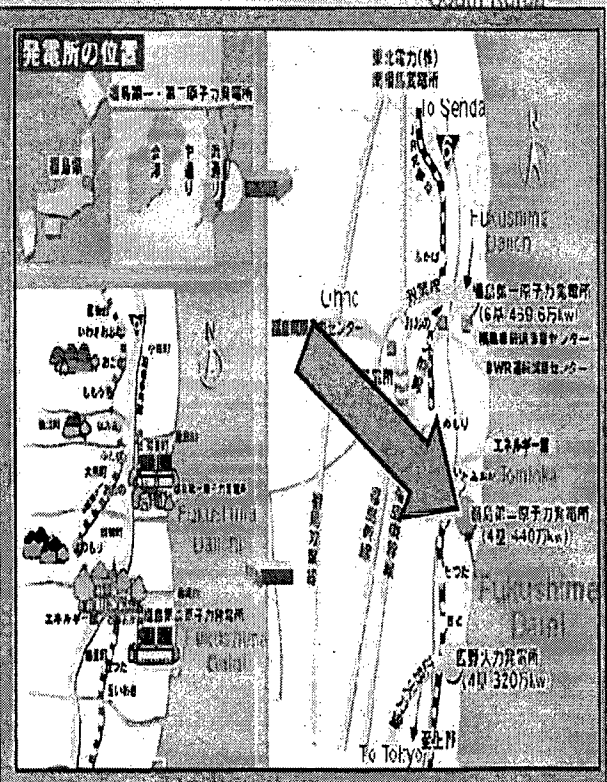
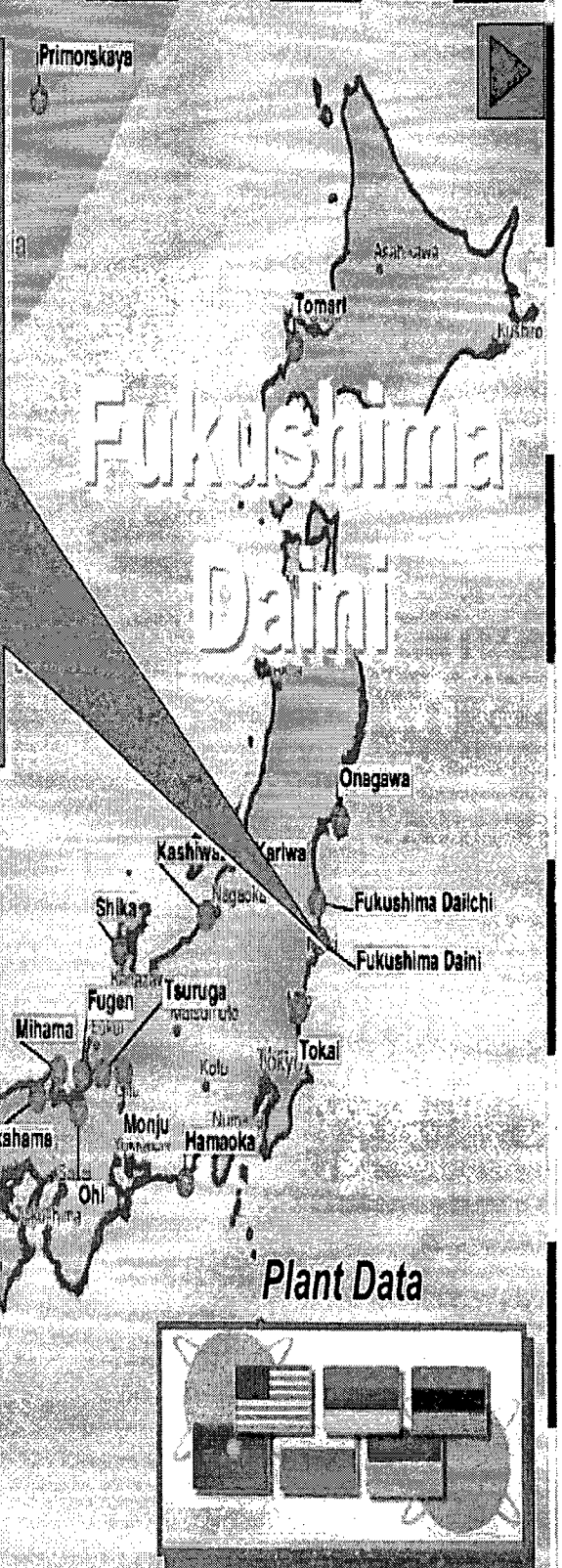
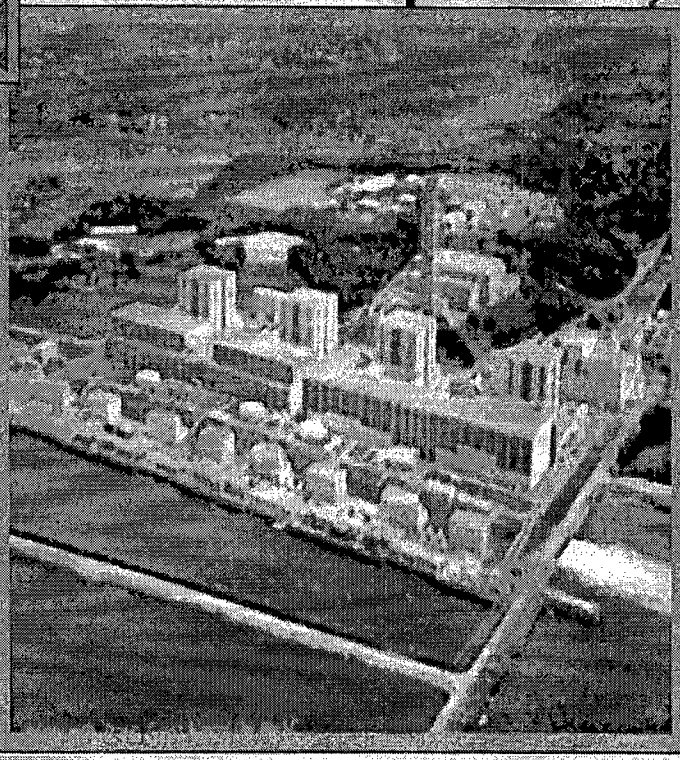
- Oyster Creek
- Hatch 1 & 2
- Duane Arnold
- Cooper
- Fitzpatrick
- Pilgrim
- Fermi 2
- Hope Creek
- Peach Bottom 2 & 3
- Nine Mile Point 1
- Dresden 2 & 3
- Brunswick 1 & 2
- Monticello
- Quad Cities 1 & 2
- Browns Ferry 2 & 3
- Vermont Yankee

GE Mark I Containment



- Oyster Creek
- Hatch 1 & 2
- Duane Arnold
- Cooper
- Fitzpatrick
- Pilgrim
- Fermi 2
- Hope Creek
- Peach Bottom 2 & 3
- Nine Mile Point 1
- Dresden 2 & 3
- Brunswick 1 & 2
- Monticello
- Quad Cities 1 & 2
- Browns Ferry 2 & 3
- Vermont Yankee

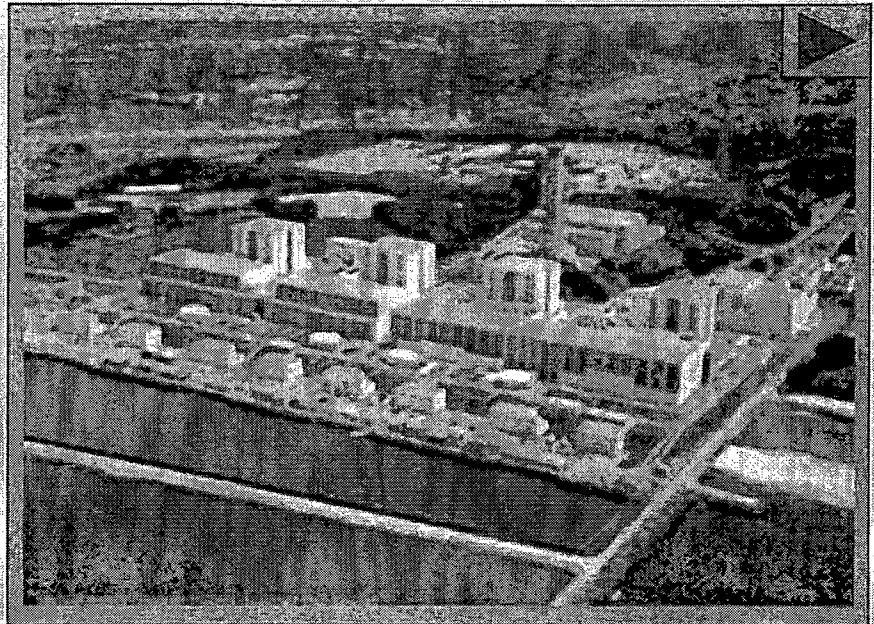




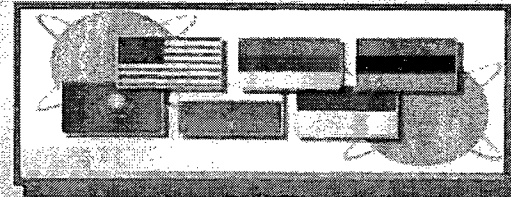
International Nuclear Safety Center at ANL, Aug 2005

130° 132° 134° 136° 138° 140° 142° 144° 146°

46'
44'
42'
40'
38'
36'
34'
32'
30'



Fukushima Daini Plant Data



Fukushima Daini



電所の位置

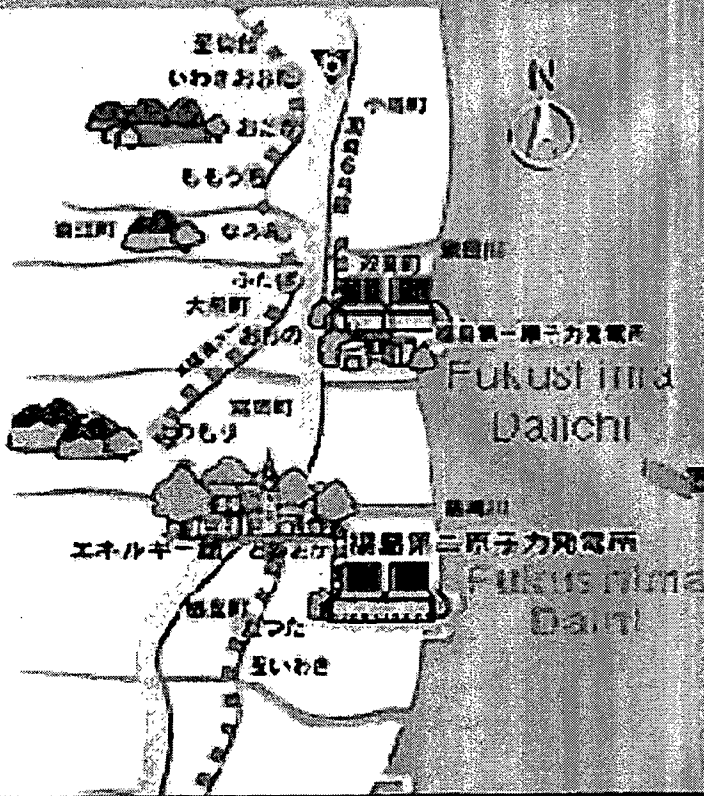
福島第一・第二原子力発電所

福島県

会津

中通り

浜通り



東北電力(株)
両相馬変電所

To Senda

Fukushima
Daich

福島第一原子力発電所
(6基 459.6万kw)

福島県計測調査センター
BWR運転訓練センター

Cinc

福島県原子力センター

新福島変電所

エネルギー館

Tomioaka

福島第二原子力発電所
(4基 440万kw)

Fukushima
Daini

広野火力発電所
(4基 320万kw)

To Tokyo

From: Milligan, Patricia
Sent: Friday, March 18, 2011 3:03 PM
To: ET07 Hoc
Subject: Re: Supplies for DART

I have 200 packets coming today
Sent from my NRC Blackberry
Patricia A Milligan, CHP RPh

(b)(6)

From: ET07 Hoc
To: Milligan, Patricia
Sent: Fri Mar 18 14:55:45 2011
Subject: FW: Supplies for DART

Trish,

I wanted you to know what has transpired so far and to let you know that someone from the ET has also reached out to ADM to request additional KI so you may hear from them when they determine that you are the source/contact for KI. So, bottom line is we do need to continue to pursue resupply of our stockpile since we know we will be deploying additional teams in the near future.

Sally Billings
ET Status Officer

From: Billings, Sally
Sent: Friday, March 18, 2011 2:38 PM
To: ET07 Hoc
Subject: Supplies for DART

Tom Andrews, RIV ERC, met with Chuck Casto in Dallas on his way to Japan and provided Chuck with the following:

- 53 Packs of 14 KI Tablets (1-dose daily)
- 10 TLDs
- 15 Pocket Chambers
 - o 5 - 200 mR
 - o 1 - 1R
 - o 5 - 5R
- Dosimeter charger
- "D" Cell Batteries

NOTE: A "Compounding Pharmacy" has the capability to make KI capsules; however, a prescription is needed.

Sally A. Billings
Emergency Response Coordinator
Exercise Coordination Branch
US Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852

RRR/45

301-415-6412

"All people smile in the same language"

From: ET07 Hoc
Sent: Saturday, March 19, 2011 12:19 PM
To: ET02 Hoc
Subject: RE: FOIA information request

Ok. I haven't given him anything yet

From: ET02 Hoc
Sent: Saturday, March 19, 2011 12:19 PM
To: ET07 Hoc
Subject: RE: FOIA information request

This is the wrong address.

From: ET07 Hoc
Sent: Saturday, March 19, 2011 12:13 PM
To: ET02 Hoc
Subject: FW: FOIA information request

From: Erlanger, Craig
Sent: Saturday, March 19, 2011 12:12 PM
To: ET07 Hoc
Subject: Fw: FOIA information request

Sent from an NRC blackberry
(b)(6)
Craig Erlanger

From: OST01 HOC
To: Abrams, Charlotte; Adams, John; Afshar-Tous, Mugeh; Alemu, Bezakulu; Alter, Peter; Anderson, James; Ashkeboussi, Nima; Baker, Stephen; Bergman, Thomas; Berry, Rollie; Bloom, Steven; Blount, Tom; Boger, Bruce; Bower, Anthony; Brandon, Lou; Brandt, Philip; Brock, Kathryn; Brown, Cris; Brown, David; Brown, Eva; Brown, Frederick; Bukharin, Oleg; Camper, Larry; Carpenter, Cynthia; Case, Michael; Casto, Greg; Cervera, Margaret; Chazell, Russell; Chen, Yen-Ju; Chokshi, Nilesh; Chowdhury, Prosanta; Circle, Jeff; Clement, Richard; Clinton, Rebecca; Collins, Frank; Cool, Donald; Costa, Arlon; Crutchley, Mary Glenn; Cruz, Zahira; Dacus, Eugene; DeCicco, Joseph; Decker, David; Dembek, Stephen; Devlin, Stephanie; Doane, Margaret; Dorman, Dan; Dozier, Jerry; Droggitis, Spiros; Dudek, Michael; Dudes, Laura; Emche, Danielle; English, Lance; Erlanger, Craig; Esmaili, Hossein; Figueroa, Roberto; Fiske, Jonathan; Franovich, Rani; Fuller, Edward; Galletta, Thomas; Gambone, Kimberly; Gitter, Joseph; Gordon, Dennis; Gott, William; Grant, Jeffery; Grobe, Jack; Hale, Jerry; Hardesty, Duane; Hart, Ken; Hart, Michelle; Hasselberg, Rick; Henderson, Karen; Hiland, Patrick; Holahan, Patricia; Holahan, Vincent; Holian, Brian; Huyck, Doug; Howard, Tabitha; Huffert, Anthony; Hurd, Sapna; Isom, James; Jackson, Karen; Jessie, Janelle; Johnson, Michael; Jolicoeur, John; Jones, Andrea; Jones, Cynthia; Kahler, Carolyn; Kammerer, Annie; Karas, Rebecca; Khan, Omar; Kowalczyk, Jeffrey; Kozal, Jason; Kratchman, Jessica; Kugler, Andrew; Lamb, Christopher; Larson, Emily; LaVie, Steve; Lewis, Robert; Li, Yong; Lombard, Mark; Lubinski, John; Lynch, Jeffery; Mamish, Nader; Manahan, Michelle; Marksberry, Don; Marshall, Jane; Mayros, Lauren; Mazaika, Michael; McConnell, Keith; McCoppin, Michael; McDermott, Brian; McGinty, Tim; McMurtray, Anthony; Merritt, Christina; Meyer, Karen; Miller, Charles; Miller, Chris; Milligan, Patricia; Mohseni, Aby; Moore, Scott; Morlang, Gary; Morris, Scott; Mroz

RRR/46

(Sahm), Sara; Munson, Clifford; Murray, Charles; Nerret, Amanda; Norris, Michael; Norton, Charles; Ordaz, Vonna; Padovan, Mark; Patel, Jay; Parillo, John; Pope, Tia; Purdy, Gary; Quinlan, Kevin; Ragland, Robert; Ralph, Melissa; Reed, Elizabeth; Reed, Wendy; Reis, Terrence; Riley (OCA), Timothy; Rini, Brett; Rodriguez-Luccioni, Hector; Rosenberg, Stacey; Ross-Lee, MaryJane; Roundtree, Amy; Ruland, William; Salay, Michael; Salus, Amy; Sanfilippo, Nathan; Scarbrough, Thomas; Schaperow, Jason; Schmidt, Duane; Schoenebeck, Greg; Schrader, Eric; Schwartzman, Jennifer; Seber, Dogan; Shane, Raeann; Shea, James; Shepherd, Jill; Sheron, Brian; Skeen, David; Sloan, Scott; Smiroldo, Elizabeth; Smith, Theodore; Stahl, Eric; Stang, Annette; Steger (Tucci), Christine; Stieve, Alice; Stone, Rebecca; Stransky, Robert; Sturz, Fritz; Sullivan, Randy; Sun, Casper; Tappert, John; Temple, Jeffrey; Thaggard, Mark; Thomas, Eric; Thorp, John; Tobin, Jennifer; Trefethen, Jean; Tschiltz, Michael; Turtill, Richard; Uhle, Jennifer; Valencia, Sandra; Vaughn, James; Vick, Lawrence; Wastler, Sandra; Watson, Bruce; Weber, Michael; Webber, Robert; White, Bernard; Wiggins, Jim; Williams, Donna; Williams, Joseph; Williamson, Linda; Willis, Dori; Wimbush, Andrea; Wittick, Brian; Wray, John; Wright, Lisa (Gibney); Wright, Ned; Wunder, George; Young, Francis; Zimmerman, Roy

Sent: Sat Mar 19 06:28:25 2011

Subject: FOIA information request

Good Morning All,

The staff of the HOC has received a broad scope FOIA request from the Associated Press requiring the release of all communications pertaining to the Japanese nuclear incidents caused by the March 11, 2011, earthquake and tsunami.

In response to this request, an email account is being created as a FOIA drop box. In the near future, you will be required to forward all emails that you have received (either to your personal email or HOC computer email) relating to these events to the established drop box. This includes emails that you have deleted but have the ability to restore. In addition, all future emails pertaining to the Japanese nuclear incidents MUST be copied to this drop box. The address is FOIAResource.hoc@nrc.gov.

A team is currently being assembled to ensure that all forwarded communications will be reviewed, and any information that qualifies for exemption (including P.I.I.) will be redacted. Therefore, you do not need to filter or redact any communication that is to be forwarded for compliance with this FOIA request.

This request has been granted expedited processing. It requires timely action from each of us to comply within the time constraints.

If you have any questions or concerns, please contact Rebecca Stone, Melissa Ralph, or Jonathan Fiske.

From: ET07 Hoc
Sent: Saturday, March 19, 2011 7:50 AM
To: Rutz, Wayne
Subject: RE: ACTION: (b)(6) processing for Jim Dyer

Thanks Wayne. I'll let Brian know.

Craig E.

From: Rutz, Wayne
Sent: Saturday, March 19, 2011 5:35 AM
To: ET07 Hoc
Subject: RE: ACTION: (b)(6) processing for Jim Dyer

I am and we have all the paperwork ready, just waiting to meet with Mr. Dyer to read him in.

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)
(b)(6) (Secure FAX)

war@nrc.gov
war@nrc.sgov.gov
war@nrc.ic.gov

"Semper Fidelis"

From: ET07 Hoc
Sent: Saturday, March 19, 2011 4:17 AM
To: Rutz, Wayne
Subject: FW: ACTION: (b)(6) processing for Jim Dyer

Wayne, are you aware?
Doug

From: McDermott, Brian
Sent: Friday, March 18, 2011 7:39 PM
To: ET07 Hoc
Subject: ACTION: (b)(6) processing for Jim Dyer

Please coordinate with INFOSEC to ensure necessary actions for Jim Dyer's access, should he be required to stand watch prior to next week.

Thanks,
Brian

From: Dyer, Jim
Sent: Friday, March 18, 2011 4:06 PM
To: Melendez, Israel

RRR/47

Cc: Stapleton, Bernard; Rutz, Wayne; McDermott, Brian

Subject: RE: (b)(6)

I'm tied up...and it's already past 4 PM. I will contact you next week. Thanks. Jim

From: Melendez, Israel

Sent: Friday, March 18, 2011 1:56 PM

To: Dyer, Jim

Cc: Stapleton, Bernard; Melendez, Israel; Rutz, Wayne; McDermott, Brian

Subject: (b)(6)

Mr. Dyer,

I have just been granted authorization for you to have (b)(6) I am located in O-2 B06. Please come by before 4:00pm. Should you be unable to attend, Wayne Rutz will be available from 11:00pm to 8:00am to grant you the access required. To find O-2 B06 from the elevators,

enter the double doors, turn to the left, the door will be on your right, there is an access device to the left of the door with a white button to ring for access or you may use the wall phone on the other side of the hall way to call me.

I look forward to meeting and briefing you.

Please confirm your attendance via e-mail or @ 415-2206/9.

Thank you,

Israel A. Melendez, Special Security Officer

U. S. NRC

11555 Rockville Pike

Rockville, MD 20852

(301) 415-2209 (Office)

(301) 415-2190 (FAX)

(301) (b)(6) (Secure FAX)

From: ET07 Hoc
Sent: Sunday, March 20, 2011 10:23 AM
To: Johnson, Clay
Subject: RE: Reactor Photo - scanned

OK. Thanks.

From: Johnson, Clay
Sent: Sunday, March 20, 2011 10:18 AM
To: ET07 Hoc
Subject: Re: Reactor Photo - scanned

Contractor checking with Albuquerque on stand off water knife technology.

Sent from an NRC Blackberry
Clay Johnson
(b)(6)

From: ET07 Hoc
To: Johnson, Clay
Sent: Sun Mar 20 09:22:25 2011
Subject: FW: Reactor Photo - scanned

From: OST02 HOC
Sent: Sunday, March 20, 2011 9:22 AM
To: ET07 Hoc
Subject: Reactor Photo - scanned

RRR/48

From: Burnell, Scott
To: McGinty, Tim; Nelson, Robert; Howe, Allen; Westreich, Barry; Brown, Frederick; Cheek, Michael; Hiland, Patrick; Thomas, Eric; Skeen, David; Williamson, Edward; Gitter, Joseph; Evans, Michele; Harrington, Holly
Cc: Boger, Bruce; McDermott, Brian; Leeds, Eric; Blount, Tom; Quay, Theodore; Bowman, Eric; Rosenberg, Stacey
Subject: Re: FYI: Plans to Draft and Issue an NRC Information Notice on the Japanese Earthquake/Tsunami Effects on Japanese Power Plants
Date: Thursday, March 17, 2011 11:51:49 AM

All;

Please keep OPA in the loop; the press release will most likely be handled through the Ops Ctr OPA team. Thanks.

Scott

Sent from an NRC Blackberry
Scott Burnell

(b)(6)

From: McGinty, Tim
To: Nelson, Robert; Howe, Allen; Westreich, Barry; Brown, Frederick; Cheek, Michael; Hiland, Patrick; Thomas, Eric; Skeen, David; Burnell, Scott; Williamson, Edward; Gitter, Joseph; Evans, Michele
Cc: Boger, Bruce; McDermott, Brian; Leeds, Eric; Blount, Tom; Quay, Theodore; Bowman, Eric; Rosenberg, Stacey
Sent: Thu Mar 17 11:17:04 2011
Subject: FYI: Plans to Draft and Issue an NRC Information Notice on the Japanese Earthquake/Tsunami Effects on Japanese Power Plants

This is an FYI:

DPR staff (Eric Bowman, lead) is developing an Information Notice on the above Subject for near-term issuance.

I anticipate that it will go into concurrence today, and we will ask concurrence of DIRS, DE, and NSIR.

Upon having the necessary comments and concurrences (by noon tomorrow), we plan to share the draft for "awareness" to ensure full coordination prior to issuance. For awareness, we anticipate sharing with the DRA's, DORL, OPA, OGC and the Executive Team in the Operations Center. Our goal is to be in a position to issue the Information Notice early next week.

We are open to suggestions on this plan, so please don't hesitate. If you want to identify a primary contact for us to work with, in your organization, please respond to Eric Bowman, Stacey Rosenberg or myself.

Thanks in Advance for your Support, Tim

REC/HG

From: Johnson, Clay
Sent: Sunday, March 20, 2011 1:21 PM
To: ET07 Hoc
Subject: Re: Reactor Photo - scanned

Not yet. Will have something for you shortly.

Sent from an NRC Blackberry

Clay Johnson

(b)(6)

]

From: ET07 Hoc
To: Johnson, Clay
Sent: Sun Mar 20 12:40:54 2011
Subject: RE: Reactor Photo - scanned

Just checking in...need anything from me?

From: Johnson, Clay
Sent: Sunday, March 20, 2011 10:18 AM
To: ET07 Hoc
Subject: Re: Reactor Photo - scanned

Contractor checking with Albuquerque on stand off water knife technology.

Sent from an NRC Blackberry

Clay Johnson

(b)(6)

]

From: ET07 Hoc
To: Johnson, Clay
Sent: Sun Mar 20 09:22:25 2011
Subject: FW: Reactor Photo - scanned

From: OST02 HOC
Sent: Sunday, March 20, 2011 9:22 AM
To: ET07 Hoc
Subject: Reactor Photo - scanned

RRR/50

From: Johnson, Clay
Sent: Sunday, March 20, 2011 1:27 PM
To: ET07 Hoc
Subject: Re: Reactor Photo - scanned

What number are you at?

Sent from an NRC Blackberry
Clay Johnson

(b)(6)

From: ET07 Hoc
To: Johnson, Clay
Sent: Sun Mar 20 12:40:54 2011
Subject: RE: Reactor Photo - scanned

Just checking in...need anything from me?

From: Johnson, Clay
Sent: Sunday, March 20, 2011 10:18 AM
To: ET07 Hoc
Subject: Re: Reactor Photo - scanned

Contractor checking with Albuquerque on stand off water knife technology.

Sent from an NRC Blackberry
Clay Johnson

(b)(6)

From: ET07 Hoc
To: Johnson, Clay
Sent: Sun Mar 20 09:22:25 2011
Subject: FW: Reactor Photo - scanned

From: OST02 HOC
Sent: Sunday, March 20, 2011 9:22 AM
To: ET07 Hoc
Subject: Reactor Photo - scanned

RRR/51

From: Hoc, PMT12
Sent: Sunday, March 20, 2011 6:57 AM
To: PMT03 Hoc
Subject: FW: Status update

Please put this in the chronology.

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

From: Hoc, PMT12
Sent: Sunday, March 20, 2011 6:45 AM
To: (b)(6)
Subject: FW: Status update

We have calculated a release from Unit 3 through the suppression pool (as there is no indication that this would not be the release path) and the doses are very low: 5 to 6 millirem very close to the site boundary and essentially undetectable at distances beyond 10 miles. If you have additional questions, please don't hesitate to contact us.

v/r
PMT12

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

From: RST01 Hoc
Sent: Sunday, March 20, 2011 6:07 AM
To: Hoc, PMT12
Subject: FW: Status update

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

From: Mercer, Robert LCDR USN USFJ J3 (b)(6) On Behalf Of USFJ-CAT-RCMT
Sent: Sunday, March 20, 2011 4:57 AM
To: RST01 Hoc
Cc: Galligher, Brian T LTJG USN USFJ J2; Spencer, Julie A. CDR USN; Robinson, Alexis M CTR DTRA; Poe, Timothy CDR USN; Young, Samuel E LCDR USN SJFHQ; Opfer, Matthew D LT USN USFJ J3
Subject: RE: Status update

Thank you for the information.

If possible we would like to be prepared for this event just in case it does need to occur over the next few days.

Would it still be possible (I understand about the uncertainty about the source term) for NRC to complete a brief analysis on the radiological impacts of this release as it will be used by General Field to make operational decisions about United States Force conducting humanitarian assistance and disaster relief in northern Honshu and possibly for civilians/dependents on the military installation in Kanto region as well.

RRR/52

We understand the likely impact is low but it still needs to be figured into the general's decision making process.

Thanks again for you and your team's assistance

Sincerely,
LCDR Rob Mercer
USFJ
Radiological Consequence Management Team
Nuclear Power Plant Working Group

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

From: RST01 Hoc [mailto:RST01.Hoc@nrc.gov]
Sent: Sunday, March 20, 2011 5:48 PM
To: USFJ-CAT-RCMT
Subject: Status update

Regarding earlier discussion about venting Unit 3 at Fukushima Daiichi, NRC sources in Japan advise that there is no venting at present and venting is not currently planned.

From: ET02 Hoc
Sent: Sunday, March 20, 2011 12:06 PM
To: Makings, John
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx

John:

Yes the departure date is 3/22/11 for the first 2 people but they will need the blackberry the day before so they can leave from home for the airport. Thanks...karen

From: Makings, John
Sent: Sunday, March 20, 2011 12:05 PM
To: ET02 Hoc
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx

Hi Karen,

I thought the first departure date was 3/22 as per our earlier discussion. Has that changed ? Thanks. —John

From: ET02 Hoc
Sent: Sunday, March 20, 2011 12:02 PM
To: Makings, John
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx

John:

I just wanted to add additional information on the table – the date that we need the blackberries. I also modified it to show that there are 3 different dates for departure – 3/21/11, 3/23/11 and 3/24/11. Please contact me if there are any questions...karen

From: Makings, John
Sent: Sunday, March 20, 2011 11:11 AM
To: ET02 Hoc
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx

Hi Karen,

I just found out that they have Verizon based devices. They will need to be provisioned with AT&T based devices that have the international services on it. The contractors that deal with service plans and provisions will be notified and will work to meet the deadline specified. If you need anything else, please feel free to contact us.—John Makings

From: ET02 Hoc
Sent: Sunday, March 20, 2011 10:52 AM
To: Makings, John
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen

RRR/53

From: Jackson, Karen
Sent: Monday, March 21, 2011 11:29 AM
To: ET02 Hoc; Scott, Michael; Blamey, Alan; Jackson, Todd; Giessner, John; Taylor, Robert; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven; LIA02 Hoc; LIA03 Hoc; NOC_Members; Turner, Joseph; Reyes, Debra
Cc: Stransky, Robert; Khan, Omar; Figueroa, Roberto; Brown, Cris; Trefethen, Jean
Subject: List of staff going to Japan week 3_21_11.docx

Importance: High

Everyone:

Just wanted to let you know that we (the Response Ops Systems Manager position working in the Ops Center which is being manned by myself, Bob Stransky, Omar Khan, Roberto Figueroa, Cris Brown, and Jean Trefethen) are working with OIS on getting international blackberries for the staff traveling to Japan this week. We can be reached by calling the Operations Center (301-816-5100) and asking for extension 5803.

OIP POCs on this e-mail: please modify the POC on the travel checklist for getting blackberries to the position Response Ops Systems Manager (using ET02 workstation) rather than just me.

I have received phone calls this morning from Mike Scott ((b)(6))), Todd Jackson (610-337-5308), Marie Miller (610-337-5205), Jack Giessner (630-829-9619) and Syed Ali ((b)(6))) wanting to know about the blackberries (some have one and wondered if it could be reprogrammed, how do the region staff get the blackberry, etc.) but I have not been able to call them back so I'm sending them this e-mail as well.

Below is the list of the staff going to Japan and the various e-mails that were sent back and forth regarding the blackberries.

Name	When leaving	Need Blackberry By:	Blackberry?
Mike Scott, RES	3/22/11	3/21/11	Yes ((b)(6))
Alan Blamey, Region II	3/22/11	3/21/11	Yes ((b)(6))
Todd Jackson, Region I	3/23/11	3/22/11	No ((b)(6))
Jack Giessner, Region III	3/24/11	3/23/11	Yes ((b)(6))
Rob Taylor, NRR	3/24/11	3/23/11	Yes ((b)(6))
Marie Miller, Region I	3/24/11	3/23/11	Yes ((b)(6))
Syed Ali, RES	3/24/11	3/23/11	No
Abdul Sheikh, NRR	3/24/11	3/23/11	No
Ralph Way, NSIR	3/24/11	3/23/11	Yes ((b)(6))
Jack Ramsey, OIP	3/24/11	3/23/11	Yes ((b)(6))
Steve Bloom, OIP	3/24/11	3/23/11	Yes ((b)(6))

OIS on this e-mail: could you please work with Bob Stransky who is working my position today.

One last thing – I'm not sure who wants laptops or if everyone does.

I received the below e-mail from Abdul Sheikh with his questions regarding the trip:

1. I am scheduled to travel to Japan on March 24, 2011. I have been asked to contact you to get an international blackberry. Please let me know when and where I can pick it up.
2. I will also need a laptop. I am going to request this from IT support group as is usual for travel.

Abdul Sheikh
301-415-6004

(b)(6) (cell)

Thanks and I'll be in the Ops Center tomorrow...karen

From: Makings, John
Sent: Sunday, March 20, 2011 12:05 PM
To: ET02 Hoc
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx

Hi Karen,

I thought the first departure date was 3/22 as per our earlier discussion. Has that changed ? Thanks. —John

From: ET02 Hoc
Sent: Sunday, March 20, 2011 12:02 PM
To: Makings, John
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx

John:

I just wanted to add additional information on the table – the date that we need the blackberries. I also modified it to show that there are 3 different dates for departure – 3/21/11, 3/23/11 and 3/24/11. Please contact me if there are any questions...karen

From: Makings, John
Sent: Sunday, March 20, 2011 11:11 AM
To: ET02 Hoc
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx

Hi Karen,

I just found out that they have Verizon based devices. They will need to be provisioned with AT&T based devices that have the international services on it. The contractors that deal with service plans and provisions will be notified and will work to meet the deadline specified. If you need anything else, please feel free to contact us.—John Makings

From: ET02 Hoc
Sent: Sunday, March 20, 2011 10:52 AM
To: Makings, John
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx
Importance: High

John:

Thanks for the update. Does this mean that the blackberries that the staff currently have can be modified for international services? Thanks...karen

From: Makings, John
Sent: Sunday, March 20, 2011 10:26 AM
To: ET02 Hoc
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: RE: List of staff going to Japan week 3_21_11.docx

Hi Karen,

I have revised the list of those who have blackberries and those who don't. I have also included the LAN ID for verification purposes to ensure that we are not looking at people with duplicate or nick names in the system. Some don't have names in the global address list. There are about 3 people without a current blackberry on the list. I will begin the process of trying to get blackberries provisioned for the user's in question. If you have any questions, please feel free to contact us. Thanks. -John Makings, Network Operations Center

From: ET02 Hoc
Sent: Sunday, March 20, 2011 9:59 AM
To: Makings, John
Cc: NOC_Members; LIA02 Hoc; LIA03 Hoc; Jackson, Karen
Subject: List of staff going to Japan week 3_21_11.docx

John:

Here is the list of staff scheduled to go to Japan this week – the table shows their name, office and date they are scheduled to go. We need to know if they already have blackberries and if so can it be programmed for international service.

We need this information asap for Mike Scott and Alan Blamey since they are leaving on Tuesday (meaning if we need to provide a blackberry they will need to get them tomorrow), Also I'm not sure if we handle getting blackberries for the regional staff.

Please let me know if you need further information. You can respond to this e-mail or contact me at 301-816-5100, ask for extension 5804. Thanks...Karen Jackson

From: ET07 Hoc
Sent: Sunday, March 20, 2011 9:14 AM
To: Johnson, Clay
Subject: RE: Question

Roger. Also confirmed request is from Marty V. I just talked to Jim W. and Chris Miller. Overall goal is to provide a few options.

I'll walk over to the RST to let them know you may need their support.

From: Johnson, Clay
Sent: Sunday, March 20, 2011 9:09 AM
To: ET07 Hoc
Subject: Re: Question

Received and on it.

Sent from an NRC Blackberry
Clay Johnson

(b)(6)

From: ET07 Hoc
To: Johnson, Clay
Sent: Sun Mar 20 09:06:43 2011
Subject: FW: Question

Please read and acknowledge receipt. I highlighted changes from our last conversion. The ET is looking for recommendations. Ideally..no "spark" from an explosion, hole may need to be expanded on the side of the building or on the top, consider use of water torches. Let me know if I can help putting you in touch with the RST for building construction data.

Craig

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

From: Holahan, Patricia
Sent: Sunday, March 20, 2011 8:42 AM
To: Westreich, Barry; Erlanger, Craig
Cc: Wiggins, Jim
Subject: Re: Question

RRR/54

I was told last night that there was concrete on the roof

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

From: Westreich, Barry

To: Erlanger, Craig

Cc: Wiggins, Jim; Holahan, Patricia

Sent: Sun Mar 20 07:55:02 2011

Subject: RE: Question

After we discussed this the other day, I did brief the ET on the idea we developed related to placing/dropping water bladders (bambie buckets) on the roof until it caused failure, broke through the roof, and also dropped the water in the pool. They were in agreement that that seemed the best idea based on the no spark or flame conditions we were trying to maintain due to potential hydrogen mixtures in the building.

I also talked to the RST Team Leader and they were going to check on building construction and work with a structural staff to try to determine the what weight it would take to exceed the roof load design. They may have done some work on that, but I never heard back..they were busy with the seawater pump and piping design with Bechtel at the time.

Le me know if there is anything I can do.

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

From: Erlanger, Craig

Sent: Sunday, March 20, 2011 6:22 AM

To: Holahan, Patricia

Cc: Wiggins, Jim; Westreich, Barry

Subject: RE: Question

Will do

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

From: Holahan, Patricia

Sent: Sunday, March 20, 2011 12:20 AM

To: Erlanger, Craig

Cc: Wiggins, Jim; Westreich, Barry

Subject: Fw: Question

Craig

Could you call Clay and/or Denis tomorrow? We have an action from the NRC team in Japan to see if there is a way to nonexplosively remove the roof off the reactor building or maybe expand the hole in the side. They will need to check with the RST the construction of the building. This was an action that I had previously mentioned but I don't believe after the initial brainstorming that much was done on it. I didn't call them tonight but the team would like us to work on it during the day shift. They may have to bring in the contractors to help them brainstorm.

Thanks, Trish

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

From: Holahan, Patricia

To: Johnson, Clay; Brady, Denis

Cc: Westreich, Barry

Sent: Sat Mar 19 23:40:53 2011

Subject: Question

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

From: Holahan, Patricia

To: Johnson, Clay; Brady, Denis

Cc: Westreich, Barry

Sent: Sat Mar 19 23:28:56 2011

Subject: Japan

Do you remember the question I asked you the other day - the one about nonexplosively breaching the roof of a reactor. Well, it's now a high priority and we were wondering if either of you were available tomorrow to go in during the day and brainstorm the question. We may have to pull in our contractors.

Thanks, Trish

From: Weil, Jenny
To: QPA Distribution
Subject: Fw: CORRECTED: Remarks by the President on the Situation in Japan
Date: Friday, March 18, 2011 7:07:19 AM

Sorry - missed this last night. Not sure what was fixed.

Sent via BlackBerry
Jenny Weil
Congressional Affairs Officer
U.S. Nuclear Regulatory Commission

(b)(6)

From: White House Press Office <noreply@messages.whitehouse.gov>
To: Weil, Jenny
Sent: Thu Mar 17 21:04:35 2011
Subject: CORRECTED: Remarks by the President on the Situation in Japan

THE WHITE HOUSE
Office of the Press Secretary

For Immediate Release

2011

March 17,

REMARKS BY THE PRESIDENT
ON THE SITUATION IN JAPAN

Rose Garden

***Please note the correction to the President's remarks below.

3:35 P.M. EDT

THE PRESIDENT: Good afternoon, everyone. Over the last several days, the American people have been both heartbroken and deeply concerned about the developments in Japan.

We've seen an earthquake and tsunami render unimaginable - an unimaginable toll of death and destruction on one of our closest friends and allies in the world. And we've seen this powerful natural disaster cause even more catastrophe through its impact on nuclear reactors that bring peaceful energy to the people of Japan.

Today, I wanted to update the American people on what we know about the situation in Japan, what we're doing to support American citizens and the safety of our own nuclear energy, and how we are helping the Japanese people contain the damage, recover and rebuild.

First, we are bringing all available resources to bear to closely monitor the situation, and to protect American citizens who may be in harm's way. Even as Japanese responders continue to do heroic work, we know that the damage to the nuclear

RRR/SS

reactors in Fukushima Daiichi plant poses a substantial risk to people who are nearby. That is why yesterday, we called for an evacuation of American citizens who are within 50 miles of the plant. This decision was based upon a careful scientific evaluation and the guidelines that we would use to keep our citizens safe here in the United States, or anywhere in the world.

Beyond this 50-mile radius, the risks do not currently call for an evacuation. But we do have a responsibility to take prudent and precautionary measures to educate those Americans who may be endangered by exposure to radiation if the situation deteriorates. That's why last night I authorized the voluntary departures of family members and dependents of U.S. officials working in northeastern Japan.

All U.S. citizens in Japan should continue to carefully monitor the situation and follow the guidance of the U.S. and Japanese governments. And those who are seeking assistance should contact our embassy and consulates, which continue to be open and operational.

Second, I know that many Americans are also worried about the potential risks to the United States. So I want to be very clear: We do not expect harmful levels of radiation to reach the United States, whether it's the West Coast, Hawaii, Alaska, or U.S. territories in the Pacific. Let me repeat that: We do not expect harmful levels of radiation to reach the West Coast, Hawaii, Alaska, or U.S. territories in the Pacific. That is the judgment of our Nuclear Regulatory Commission and many other experts.

Furthermore, the Centers for Disease Control and Prevention and public health experts do not recommend that people in the United States take precautionary measures beyond staying informed. And going forward, we will continue to keep the American people fully updated -- because I believe that you must know what I know as President.

Here at home, nuclear power is also an important part of our own energy future, along with renewable sources like wind ***[and] solar, natural gas and clean coal. Our nuclear power plants have undergone exhaustive study, and have been declared safe for any number of extreme contingencies. But when we see a crisis like the one in Japan, we have a responsibility to learn from this event, and to draw from those lessons to ensure the safety and security of our people.

That's why I've asked the Nuclear Regulatory Commission to do a comprehensive review of the safety of our domestic nuclear plants in light of the natural disaster that unfolded in Japan.

Finally, we are working aggressively to support our Japanese ally at this time of extraordinary challenge. Search and rescue teams are on the ground in Japan to help the recovery effort. A disaster assistance and response team is working to confront the aftermath of the earthquake and tsunami. The U.S. military, which has helped to ensure the security of Japan for decades, is working around the clock.

To date, we've flown hundreds of missions to support the

recovery efforts, and distributed thousands of pounds of food and water to the Japanese people. We've also deployed some of our leading experts to help contain the damage at Japan's nuclear reactors. We're sharing with them expertise, equipment, and technology so that the courageous responders on the scene have the benefit of American teamwork and support.

And the American people have also opened up their hearts. Many have given generously to support the ongoing relief efforts. The Red Cross is providing assistance to help meet the immediate needs of those who've been displaced. And I would encourage anybody who wants to lend a hand to go to usaid.gov to learn more -- that's usaid.gov -- to find out how you can be helpful.

As I told Prime Minister Kan last night, and reaffirmed at the Japanese embassy here in Washington today, the Japanese people are not alone in this time of great trial and sorrow. Across the Pacific, they will find a hand of support extended from the United States as they get back on their feet. After all, we have an alliance that was forged more than a half century ago, and strengthened by shared interests and democratic values. Our people share ties of family, ties of culture, and ties of commerce. Our troops have served to protect Japan's shores, and our citizens have found opportunity and friendship in Japan's cities and towns.

Above all, I am confident that Japan will recover and rebuild because of the strength and spirit of the Japanese people. Over the last few days, they've opened up their homes to one another. They've shared scarce resources of food and water. They've organized shelters, provided free medical care, and looked out for their most vulnerable citizens. One man put it simply: "It's a Japanese thing. When hard times hit, we have to help each other."

In these hard times, there remains, nevertheless, hope for the future. In one small town that had been flattened by the tsunami, emergency workers rescued a four-month-old baby who had been swept out of her parents' arms and stranded for days among the debris. No one can say for certain just how she survived the water and the wreckage around her. There is a mystery in the course of human events.

But in the midst of economic recovery and global upheaval, disasters like this remind us of the common humanity that we share. We see it in the responders who are risking their lives at Fukushima. We show it through the help that has poured into Japan from 70 countries. And we hear it in the cries of a child, miraculously pulled from the rubble.

In the coming days, we will continue to do everything we can to ensure the safety of American citizens and the security of our sources of energy. And we will stand with the people of Japan as they contain this crisis, recover from this hardship, and rebuild their great nation.

Thanks very much.

END

3:42 P.M. EDT

Unsubscribe

The White House • 1600 Pennsylvania Avenue, NW • Washington, DC 20503 • 202-456-1111

From: Giessner, John
Sent: Sunday, March 20, 2011 8:32 PM
To: LIA03 Hoc
Subject: Re: Question

That's ok,
Thanks for following up!
Jack
(Sent from Blackberry)

From: LIA03 Hoc
To: Giessner, John
Sent: Sun Mar 20 20:30:27 2011
Subject: RE: Question

Jack, I am still trying to get some answers. It may not be until tomorrow morning.

Nancy

From: Giessner, John
Sent: Sunday, March 20, 2011 3:56 PM
To: LIA03 Hoc
Subject: RE: Question

Nothing, right now. I was told to hold and wait for information. I am in Region III (Lisle IL), so I am trying to determine how I need to proceed.

From: LIA03 Hoc
Sent: Sunday, March 20, 2011 3:53 PM
To: Giessner, John
Cc: LIA02 Hoc
Subject: RE: Question

Jack, sorry but we just came on shift. What have you done so far with renewing your passport? Let me know so I can begin to inquire.

Nancy

From: Giessner, John
Sent: Sunday, March 20, 2011 3:46 PM
To: LIA03 Hoc
Subject: Question

Hi, I am making preparations to go to Japan and wanted to know is there anything I need to do to expedite my passport renewal (My passport (b)(6))

Jack
(b)(6)

RRR/56

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: Ali, Syed
Sent: Monday, March 21, 2011 1:42 PM
To: LIA03 Hoc
Subject: RE: Travel to Japan Checklist-UPDATED!.docx

Emergency Contact: (b)(6)
Emergency (home) phone #: (b)(6)

Thanks,
Syed Ali

From: LIA03 Hoc
Sent: Monday, March 21, 2011 1:11 PM
To: Ali, Syed
Subject: RE: Travel to Japan Checklist-UPDATED!.docx

Syed,
Just trying to update some information. Can you provide me with emergency contact and emergency (home) phone number.

Thanks.

Nancy

From: Ali, Syed
Sent: Monday, March 21, 2011 12:55 PM
To: LIA03 Hoc
Subject: RE: Travel to Japan Checklist-UPDATED!.docx

Please see the attached for the current status of responses. I will update the list when I get more info.

Thanks,
Syed Ali

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!

RRR/57

International Travel Checklist

Pre-Travel Activities	
	Completed
<p>1. Passport: Make sure either personal or official passport is valid for at least 6 months after the date of completion of the trip, if you're traveling with USAID, a visa is not required. Contact Steve Dembek if you need assistance 301-415-2342</p>	<p>My personal passport is (b)(6) I have given the passport info to Mike Dudek at USAID.</p>
<p>2. Ascertain any health immunization recommendations: Contact the NRC Health Unit (415-8400) to consult on possible medical issues and precautions, including the possibility of getting recommended inoculations or other medications and educational materials. Travelers can check recommended immunizations and other health advisories at http://www.cdc.gov/travel/.</p>	<p>I am waiting for a call back from the health center.</p>
<p>3. Obtain international Blackberry – Contact Karen Jackson at 415-6398</p>	<p>I tried to contact Karen and I am waiting for a call back from her.</p>
<p>4. Country clearance cable information Format: Format is available at OIP SharePoint (http://portal.nrc.gov/OCM/ip/travel/default.aspx) Complete the requested items. Place of Birth should be exactly the same as shown in your passport. Include your security clearance information and follow the directions included.</p>	<p>I will prepare country clearance once I get info about my airline and hotel. Who should I send it to?</p>
<p>5. Obtain dosimetry and KI tablets. In order to get dosimeter, traveler needs to contact a Radiation Safety Officer. Contact Undine Shoop at 301-415-2063 or your Regional RSO.</p>	<p>Undine told me that she's setting up a meeting to distribute dosimeters to the team going this week.</p>

<p>6. USAID Needs the following information (send to: <u>RMTPACTSU_ELNRC@ofda.gov</u>, or phone: (202) 236-6417, 202-712-4383): For anyone deploying to Japan we (the NRC USAID reps will need the following):</p> <p>Full Name Home Address SSN</p> <p>Passport # Date and Place of Birth Issue Date of Passport Expiration Date of Passport Place of Passport Issuance</p> <p>Finally, since the Travel Authority will be USAID we need the following Banking information:</p> <p>Account Name Account Number Routing Number</p>	<p>I have contacted Mike Dudek at USAID and given him all the info needed by USAID.</p>
<p>7. Receive Cultural Briefing by OIP – Contact Nader Mamish 301-415-3244 to arrange.</p>	<p>There's a briefing on Tue, 3/22. Hopefully that will cover that.</p>
<p>8. Recommend contact with EAP – Available 27/7 at 1-800-869-0276</p>	<p>I have contacted Sarah.</p>
<p>9. Recommended Business Attire – Normal attire in Japan is business and ties are worn all the time. Higher end business casual would also be acceptable in some situations.</p>	<p>Understood.</p>
<p>10. Business cards – Contact your office secretary.</p>	<p>Ok.</p>

From: Giessner, John
Sent: Monday, March 21, 2011 7:54 PM
To: LIA03 Hoc; Dorman, Dan; Scott, Michael; Blamey, Alan; Taylor, Robert; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc
Subject: RE: Instructions for NRC Deployees

John (everyone calls me Jack) Giessner

13 years active duty USN officer. 10 years Nuclear Navy including two tours on submarines (served as Engineer Officer). Served three years as a Joint Staff Officer, US military (US Strategic Command). Left the military in (b)(6) and went into the commercial nuclear industry at Salem Nuclear plant and then DC Cook. I had increasingly more responsibility serving as procedure supervisor, procedure manager, Assistant Operations Manager and Engineering Director. Completed training and qualification as Shift Technical Adviser and Senior Reactor Operator. Obtained SRO license at Salem Plant. Served as one team's Emergency response Director (Emergency Director) at DC Cook. In 2004, I joined the NRC and as Reactor Engineer supported inspections at Point Beach (when they were in column IV). I served as Resident Inspector at Palisades (2005-2008) and performed the first B5B inspection at that site. I am currently the Branch Chief, in DRP RIII, for Palisades, Fermi and Prairie Island.

Degrees-BS Physics, MA National Security Affairs. License / certifications: Joint Staff Officer - US military (b)(6); SRO license – Salem (2000); STA certification – Salem (2000); NRC IMC 1245 qualification 2004.

From: LIA03 Hoc
Sent: Monday, March 21, 2011 6:14 PM
To: Dorman, Dan; Scott, Michael; Blamey, Alan; Giessner, John; Taylor, Robert; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc
Subject: FW: Instructions for NRC Deployees

Dear Outgoing Team – Please take note of the below email. Also, please send a 1 or 2 paragraph bio at your earliest convenience.

Thank You,
NRC International Liaison Team

From: LIA01 Hoc
Sent: Monday, March 21, 2011 7:03 PM
To: RMTFACTSU_ELNRC; LIA02 Hoc; LIA03 Hoc
Subject: Instructions for NRC Deployees

From Phone call with Chuck Casto in Japan:

NRC staff deploying to Japan should report to their hotel, get rest, report to the US Embassy in the AM

Ned Wright
NRC Federal Liaison

RRR/58

From: Scott, Michael
Sent: Monday, March 21, 2011 7:50 PM
To: LIA03 Hoc
Subject: RE: Instructions for NRC Deployees

Thanks. Here is bio:

Michael (Mike) Scott currently serves as Acting Deputy Director of the Division of Systems Analysis in the Office of Nuclear Regulatory Research. Prior to this appointment, Mike worked as Chief, Safety Issues Resolution Branch, in the Division of Safety Systems, Office of Nuclear Reactor Regulation (NRR). In this role he was responsible for leading activities to resolve Generic Safety Issue 191, Pressurized Water Reactor Sump Performance. Mike joined the NRC in 2001 as a project manager in NRR. He also served as Chief of the Technical Support Branch on the staff of the Advisory Committee on Reactor Safeguards. Prior to his employment at the NRC, he held several positions in the nuclear industry, including Manager of NSSS Systems and Reactor Engineering at the H. B. Robinson nuclear plant, Senior Evaluator at the Institute of Nuclear Power Operations, and Licensing Supervisor for Duke Engineering and Services on the Yucca Mountain Project. Mike also completed 30 years of service in the U.S. Navy and the Navy Reserve, (b)(6)

(b)(6)

Mike graduated from the (b)(6) with a Bachelors degree in physics and from the Georgia Institute of Technology with a Masters degree in nuclear engineering. He is a licensed professional engineer and a graduate of the Senior Executive Service Candidate Development Program class of 2009.

From: LIA03 Hoc
Sent: Monday, March 21, 2011 7:14 PM
To: Dorman, Dan; Scott, Michael; Blamey, Alan; Giessner, John; Taylor, Robert; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc
Subject: FW: Instructions for NRC Deployees

Dear Outgoing Team – Please take note of the below email. Also, please send a 1 or 2 paragraph bio at your earliest convenience.

Thank You,
NRC International Liaison Team

From: LIA01 Hoc
Sent: Monday, March 21, 2011 7:03 PM
To: RMTFACTSU_ELNRC; LIA02 Hoc; LIA03 Hoc
Subject: Instructions for NRC Deployees

From Phone call with Chuck Casto in Japan:

NRC staff deploying to Japan should report to their hotel, get rest, report to the US Embassy in the AM

Ned Wright
NRC Federal Liaison

RRR/59

From: OST05 Hoc
Sent: Monday, March 21, 2011 2:19 PM
To: Nguyen, Caroline; Mroz (Sahm), Sara
Subject: FW: Classified email
Attachments: RE:

Sara,

Would you please add the SIPR e-mail below to your classified distribution list for SITREPs (i.e., Earthquake / Tsunami Status Update)?

Thanks,
Cindy Flannery
State Liaison – Liaison Team
NRC Incident Response Center

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

From: Browder, Rachel
Sent: Monday, March 21, 2011 2:06 PM
To: LIA04 Hoc; OST05 Hoc
Subject: FW: Classified email

I appreciate your consideration for adding the Air Force onto the SIPR email distribution list for the updates. Please see the email link below for the account. Please note it's (b)(6) in the email address. If there are any questions, please let me know.
Rachel

From: Dowell, Laurie E CTR USAF AFMSA/SG3PB (b)(6)
Sent: Wednesday, March 16, 2011 1:05 PM
To: Browder, Rachel
Subject: Classified email

Rachael,

Lt Col Smith's SIPR email address is below. It is for classified email only. If the NRC can access the email address, perhaps they can send information not available to the public.

(b)(6)

RRR/60

Thank you for your help, Rachael

Elisa

Elisa Dowell, CHP

Office of the Surgeon General

1500 Wilson Blvd, Suite 1600

Arlington, VA 22209

703-588-6303

DSN 425-6303

From: LIA12 Hoc
Sent: Monday, March 21, 2011 1:22 PM
To: LIA11 Hoc; RMTFACTSU_ELNRC; LIA01 Hoc; LIA02 Hoc; LIA07 Hoc; LIA08 Hoc; LIA04 Hoc; ET07 Hoc
Subject: RE: 2:00 Congressional Call

NRC will be represented by Jeff Temple, Emergency Response Coordinator.

There was no call on Sunday, so I believe the call information remains the same.

877-334-8037, password: (b)(6)

From: LIA11 Hoc
Sent: Monday, March 21, 2011 12:29 PM
To: RMTFACTSU_ELNRC; LIA01 Hoc; LIA02 Hoc; LIA07 Hoc; LIA08 Hoc; LIA12 Hoc; LIA04 Hoc; ET07 Hoc
Subject: RE: 2:00 Congressional Call

From what we understand it will be someone from the LT, the exact person has not yet been identified. Either the LT director or coordinator.

Beth

From: RMTFACTSU_ELNRC [mailto:RMTFACTSU_ELNRC@ofda.gov]
Sent: Monday, March 21, 2011 12:28 PM
To: LIA11 Hoc; LIA01 Hoc; LIA02 Hoc; LIA07 Hoc; LIA08 Hoc; LIA12 Hoc; LIA04 Hoc; ET07 Hoc
Subject: 2:00 Congressional Call

Can we please verify who will be on the 2:00 pm conference call with Congress? This is the daily, routine call that the NRC has been on with USAID.

I am in the process of re-confirming the phone # for the conference call.

Thanks!
Michael I. Dudek

RRR/61

From: PMT09 Hoc
Sent: Monday, March 21, 2011 2:34 PM
To: LIA02 Hoc
Subject: RE: Yes, the IRSN Simulation video is posted - I have translated it into English

Thank you, however the page does not exist now. It apparently has been taken off the internet. The translation below will be helpful.

Michelle

From: LIA02 Hoc
Sent: Monday, March 21, 2011 2:22 PM
To: PMT09 Hoc
Subject: FW: Yes, the IRSN Simulation video is posted - I have translated it into English

Michelle,

Please see below email exchange. The IRSN link is at the very bottom. In between is the translation that Cyndi got off of Google translate.

From: Jones, Cynthia
Sent: Friday, March 18, 2011 10:38 AM
To: LIA02 Hoc
Cc: LIA06 Hoc; Hoc, PMT12; Steve.TD.Walker@hse.gsi.gov.uk; Milligan, Patricia
Subject: Yes, the IRSN Simulation video is posted - I have translated it into English

Yes that's it. Please tell the ET that its posted Jack Grobe (ET Mgr last night) wanted to know when it was; Jim would want to know as well. By cc of this email I am sending it to the PMT/.

Just click on the link and go to the center of the page and click on "Simulations"

The good news is that they appeared to have toned down the statement about "exact" dose ranges (estimates to Child thyroid) per our concerns after the conference call yesterday)

Suggest you send to the UK, Canada contacts for me....

From Google translate it says the following:

French to English translation

Simulations of atmospheric dispersion of the plume formed by the release of the Fukushima Daiichi Nuclear Power Station, between March 12 and March 20, 2011
17/03/2011

1 - What is known radioactive releases issued since March 12, 2011?

The IRSN has no direct information on the composition and extent of radioactive releases. The interpretation of dose rate measurements on site and the likely scenarios of degradation of three reactors since March 12, assuming that these releases will continue until 20 March. The radioactive elements released during various episodes of rejection are rare gases (radioactive elements chemically unreactive, remaining in the atmosphere without being deposited on the ground) and volatile elements, mainly from radioactive iodine, including iodine-131 which has a half life of 8 days, and radioactive cesium, which cesium 137. The proportions of

BRRL/62

the different radioactive elements into account general knowledge about nuclear reactors.

2 - The dispersion of radioactive releases into the atmosphere

IRSN simulated atmospheric dispersion of releases estimated between 12 and 20 March, using its numerical model applicable to long distance (scale of several hundred kilometers), using weather forecasts provided by Météo France .

This simulation was applied to the cesium 137, as a tracer of the plume during this period. The results of this simulation, conducted every hour from 12 March, are expressed in becquerels of cesium-137 per cubic meter of air (Bq / m³). For comparison, values measured near the Chernobyl plant, shortly after the accident on April 26, 1986, exceeded 100 000 Bq / m³; they were in the range of 100-1000 Bq / m³ in the country most affected by the plume (Ukraine, Belarus); France, values measured in the east were the order of 1 to 10 Bq/m³ (May 1, 1986).

Today, a very low activity of cesium-137 remains in the air, on the order of 0.000001 Bq/m³.

Watch the simulation of the plume

3 - Estimation of doses likely to be received by persons exposed to the radioactive plume

IRSN said the doses likely to be received by a person exposed to the radioactive plume, assuming it stays in one place and unprotected (outside) for the duration of discards (from March 12 to 20). For these dose calculations, the SNRIs considered a child of a year which is most sensitive to iodine 131 (thyroid dose). It is therefore prudent assumptions.

The following simulations show the evolution of doses over time, the simulation period. If no new discharges would occur in the future, these rates may increase further in the absence of protection for those most at risk.

Whole body dose may be received by a child of 1 year in the absence of protection for releases

Watch the simulation

In case of accident, the dose values from which protective actions are recommended are 10 mSv for sheltering in place and 50 mSv for evacuation. Below 10 mSv, the health risk is considered low enough not to make the necessary protective actions. For comparison, the average annual dose received in France due to natural radioactivity and medical exposure is 3.7 mSv.

Thyroid doses could be received by a child of 1 year in the absence of protection for releases

That's it
Cyndi

Cynthia G. Jones, Ph.D.,
Sr. Technical Advisor for Nuclear Security
U.S. Nuclear Regulatory Commission
Office of Nuclear Security & Incident Response
Mail Stop T4-D22A, Washington, D.C. 20555
cynthia.jones@nrc.gov
cjones@nrc.gov
Work: 301-415-0298

Blackberry: (b)(6)

From: LIA02 Hoc
Sent: Friday, March 18, 2011 10:24 AM
To: Jones, Cynthia
Subject: RE: Re. UK/US/CDA/FR Teleconference request

It looks like something was posted but it is in French. I read French but can't guarantee I understand the technical terms. Here is the link. I will work with OIP to get someone ASAP to translate.

http://www.irsn.fr/FR/Actualites_presse/Actualites/Pages/20110317_simulation_dispersion_panache_radioactif.aspx

From: Jones, Cynthia
Sent: Friday, March 18, 2011 10:22 AM

To: LIA02 Hoc

Subject: RE: Re. UK/US/CDA/FR Teleconference request

OK- BTW, did IRSN post the video and simulation on their website yet? IF not, can you ask them to send us the link as we asked yesterday?

I am quick worried about that "simulation" its way out of the ballpark of the UK, Canada and US estimates..

From: LIA02 Hoc
Sent: Monday, March 21, 2011 4:26 PM
To: Scott, Michael
Cc: LIA03 Hoc
Subject: FW: UPDATED TRAVEL - NRC

fyi

From: RMTPACTSU_ELNRC [mailto:RMTPACTSU_ELNRC@ofda.gov]
Sent: Monday, March 21, 2011 4:24 PM
To: LIA02 Hoc
Subject: RE: UPDATED TRAVEL - NRC

Yes, I have been assured by the USAID staff that rooms have been requested for the new NRC travelers at (b)(6) in Tokyo. This is the (b)(6) as the current NRC team that is stationed in Tokyo. I do not yet have confirmation numbers, but this is being worked by the USAID folks and I will send the information to you as soon as I receive it.

Michael I. Dudek

From: LIA02 Hoc [mailto:LIA02.Hoc@nrc.gov]
Sent: Monday, March 21, 2011 4:16 PM
To: RMTPACTSU_ELNRC
Cc: LIA03 Hoc
Subject: RE: UPDATED TRAVEL - NRC

Hi Mike,

OIP and the Chairman's office are requesting confirmation that AID has taken/is taking care of the hotel reservations for the next batch of travelers. Can you confirm? Assuming this is an affirmative, is there a way that you can have AID forward us confirmation numbers?

Danielle

From: RMTPACTSU_ELNRC [mailto:RMTPACTSU_ELNRC@ofda.gov]
Sent: Monday, March 21, 2011 3:57 PM
To: LIA01 Hoc; ET07 Hoc; LIA02 Hoc; Blamey, Alan; Jackson, Todd; Scott, Michael
Subject: UPDATED TRAVEL - NRC

Attached are the updated travel reservations. Please note, they have been upgraded. Todd is additionally working to change his ticket so more to come. ☺

Thanks!

Michael I. Dudek

From: RMTPACTSU_AC
Sent: Monday, March 21, 2011 3:50 PM
To: RMTPACTSU_ELNRC
Cc: RMTPACTSU_DMO; travel
Subject: Second Wave NRC Travelers

RRR/63

Mike – In lieu of the latest travel approval, I have changed and upgraded the reservation of your colleagues from economy to business class on certain travel sector. Business class authorization is only approved for the outbound flight from US to Japan. Our travel office is in the process of issuing their TA. Country clearance requests to the Embassy have already been completed.

Please let me know if you have any questions.

Surin McKenna
Admin Coordinator
Pacific Tsunami and Japan Earthquake Response Management Team
USAID/DCHA/OFDA
Rmtpactsu_ac@ofda.gov
202-712-0031

From: RMTPACTSU_DMO
Sent: Monday, March 21, 2011 2:58 PM
To: RMTPACTSU_RM; RMTPACTSU_AC
Cc: travel; Friedman, Ara; OFDAFinance [USAID]; Chan, Carol(DCHA/OFDA) [USAID]; Lauer, Aimee (DCHA/OFDA) [USAID]

Hi everyone,

We just spoke with Carol. We will authorize business class per for inbound travelers on the DART per the memo signed by Mark on March 18. Surin has a copy. These team members are expected to hit the ground running and will not be able to take a rest day. Everyone will fly economy on the way back.

I've copied OFDA Finance on this thread because this has implications for the IAA with NRC.

Let me know if you have any questions.

Chris Leonardo
Deputy Manager for Operations
Pacific Tsunami Response Management Team
RMTPACTSU_DMO@ofda.gov
202-712-0039

Attachment Travel Reservation March 23 for JACKSON.pdf(22851 bytes) cannot be converted to PDF format.

Attachment Travel Reservation March 22 for BLAMEY.pdf(20339 bytes
) cannot be converted to PDF format.

Attachment Travel Reservation March 22 for SCOTT.pdf(21308 bytes
) cannot be converted to PDF format.

From: OST05 Hoc
Sent: Monday, March 21, 2011 4:11 PM
To: LIA07 Hoc
Subject: RE: USNRC Earthquake-Tsunami Update 03.21.11--0600 EDT

Thanks Sara

I'll pass that along

From: LIA07 Hoc
Sent: Monday, March 21, 2011 4:07 PM
To: OST05 Hoc
Subject: RE: USNRC Earthquake-Tsunami Update 03.21.11--0600 EDT

He's on the distribution list. I'm not sure why he is not receiving the updates. I haven't received a bounceback from his address.

-Sara

From: OST05 Hoc
Sent: Monday, March 21, 2011 3:56 PM
To: LIA07 Hoc
Subject: RE: USNRC Earthquake-Tsunami Update 03.21.11--0600 EDT

I have received a request from David Graves (b)(6) to be placed back on this distribution list. Apparently he has unexpectedly stopped receiving updates.

This request came to me from Matthew Hahn (x8145) who received the original request via voice message.

Regards,
Stuart Easson
State Liaison – Liaison Team
Incident Response Center

From: LIA07 Hoc
Sent: Monday, March 21, 2011 6:13 AM
Cc: LIA07 Hoc
Subject: USNRC Earthquake-Tsunami Update 03.21.11--0600 EDT

Attached, please find the **0600 EDT March 21, 2011** status update from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami.

~~Please note that this information is "Official Use Only" and is only being shared within the federal family.~~

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

-Jim

RRR/64

Jim Anderson
Office of Nuclear Security and Incident Response
U.S. Nuclear Regulatory Commission
james.anderson@nrc.gov
LIA07.HOC@nrc.gov (Operations Center)

From: Parks, Cecil V.
To: Leeds, Eric
Subject: RE: Fukushima situation
Date: Monday, March 21, 2011 9:00:33 AM

Eric:
Realized my contact info not on initial e-mail. Use below as needed.
Cecil

Cecil V. Parks, Ph.D.
Director, Reactor and Nuclear Systems Division
Oak Ridge National Laboratory
Office Phone: 865 574-5280;
CELL: (b)(6)

From: Leeds, Eric [mailto:Eric.Leeds@nrc.gov]
Sent: Sunday, March 20, 2011 4:11 PM
To: Parks, Cecil V.
Subject: RE: Fukushima situation

Thanks, Cecil. There may be some in the future, as things settle out. I appreciate the outreach!

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Parks, Cecil V. [mailto:parkscv@ornl.gov]
Sent: Saturday, March 19, 2011 10:26 PM
To: Leeds, Eric
Subject: Fukushima situation

Eric:
ORNL is working to stay engaged with DOE, NRC, and the industry relative to ways we can help inform issues related to the Fukushima reactors. We have been actively responding to some technical questions coming to us via Research. If there are any specific issues that arise within NRR where you need some rapid technical advice, don't hesitate to have your staff contact me and I'll be happy to help identify a resource.

Cecil

Cecil V. Parks, Ph.D.
Director, Reactor and Nuclear Systems Division at ORNL

R:RA/65

From: Pearson, Laura
Sent: Monday, March 21, 2011 10:55 AM
To: McDermott, Brian; ET05 Hoc
Cc: RST01 Hoc; PMT01 Hoc
Subject: RE: how do I send a tasker to the RST?

The RST indicated that the response may be classified. If it is classified, they can come into the SCIF and brief me verbally and I will send the report over JWICS (the TS/SCI network). Otherwise, they can email the response. Thanks.

Laura Pearson
Acting Policy Advisor for Security and Int'l Programs
Office of the Chairman
U.S. NRC
(301) 415-8044

(b)(6)

(C)

From: McDermott, Brian
Sent: Monday, March 21, 2011 10:54 AM
To: ET05 Hoc
Cc: RST01 Hoc; PMT01 Hoc; Pearson, Laura
Subject: FW: how do I send a tasker to the RST?

Task for RST and PMT.

Laura – please clarify how the response should go back to DOD.

Thanks,
Brian

From: Pearson, Laura
Sent: Monday, March 21, 2011 10:26 AM
To: McDermott, Brian
Cc: Masse, Todd
Subject: how do I send a tasker to the RST?

The DOD sent a Request for Information, and the RST are the experts on the topic. DoD wants to know what criteria NRC uses to know that the situation is getting worse—temperature, radiological, or anything else. They want to know what kinds of temperatures or rad levels would trigger concern at NRC. They want to do this so that they can track the situation themselves somewhat and know when they may need to be prepared to start evacuating. I approached the RST and asked for information and they asked for an official tasker. The DoD requests the information within 8 hours from now.

RRR/66

From: Dembek, Stephen
Sent: Monday, March 21, 2011 1:55 PM
To: Giessner, John
Cc: RMTPACTSU_ELNRC; LIA03 Hoc; LIA02 Hoc
Subject: FW: Travelers checklist and passport

As requested, see the numbers for DOS POC and USAID POC below:

They can call Dana Banks (202) 712-0996. She is here until about 1630 EST.

Jason Kozal
USNRC Liaison to USAID
NSIR
202-712-4383 (USAID 24hr land line)

(b)(6)	BB
(b)(6)	cell <i>266</i>

RRR/67

From: Leeds, Eric
To: Holian, Brian; Galloway, Melanie
Subject: FW: NYS visit - prep info
Date: Monday, March 21, 2011 11:50:00 AM

We're meeting with the NYS delegation tomorrow at 10:30. They're coming in to talk seismic for IP, very focused on license renewal. Please touch base with Jack Grobe – he's pulling together our team. I will need one of you to attend to be ready to answer questions with regard to license renewal.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Wittick, Brian
Sent: Sunday, March 20, 2011 6:30 PM
To: Leeds, Eric; Grobe, Jack; Sheron, Brian; Coe, Doug
Cc: Turtill, Richard
Subject: NYS visit - prep info

Following is a link to an article published Saturday saying the NYS governors office had scheduled a meeting with NRC for Tuesday: <http://polhudson.lohudblogs.com/> Their being a little ahead of us on confirming the meeting explains their angst today.

Please note the article states the purpose of their meeting as: "The purpose of the meeting will be to discuss the risks facing Indian Point in the event of an earthquake, how prepared Indian Point is to handle an earthquake, as well as what risk assessments have been completed regarding Indian Point." This adds a little to their stated purpose to us being: "To better understand the findings of the study, and get an update on the further review at Indian Point that is/may be on going."

VR
Brian Wittick

From: Leeds, Eric
Sent: Sunday, March 20, 2011 4:01 PM
To: Sheron, Brian; Turtill, Richard; LIA08 Hoc; Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah; Ryan, Michelle; Wiggins, Jim; Coe, Doug; Grobe, Jack; Wittick, Brian
Subject: RE: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN

Yes – NRR is working with the EDOs office to set up the meeting and we appreciate RES's support. Brian Wittick is the POC.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

RRL/68

From: Sheron, Brian
Sent: Sunday, March 20, 2011 3:06 PM
To: Turtill, Richard; LIA08 Hoc; Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah; Ryan, Michelle; Leeds, Eric; Wiggins, Jim; Coe, Doug
Subject: RE: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN

RES is working with NRR and will support the meeting. We are not taking the lead to set it up, etc. I am assuming NRR is doing that.

From: Turtill, Richard
Sent: Sunday, March 20, 2011 12:40 PM
To: LIA08 Hoc; Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah; Ryan, Michelle; Leeds, Eric; Wiggins, Jim; Sheron, Brian
Subject: RE: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN
Importance: High

Jeff (not certain which Jeff):

I'm the Branch Chief of FSME's Intergovernmental Liaison Branch, and some of us, including Rosetta and I, want to be assured that NRR and/or RES are taking the lead in (of course) preparing for the meeting with NY, but also **coordinating logistics for such a meeting**. I was planning to call Eric this afternoon to assure NRR was in fact taking the lead to coordinate meeting with NY, and keeping Chairman's office and RI informed of the meeting.

Shall I call Eric? The meeting is fast approaching... Tuesday.. Many will be engaged in the Commission meeting on Mon morning. **I believe we (NRR Administrative support?) should be in touch with NY (their contact in DC - Hilary F. Jochmans, Director New York State Washington Office of the Governor 202-434-7100) first thing Monday morning to plan out meeting logistics for this meeting, including room reservation, etc.**

Can we be assured that NRR (and/or RES) is doing this? At this time, there have been just WAY too many e-mails discussing this meeting. Unless I hear from you shortly, I'll try to contact Eric directly by phone. Please let me know.

Rich Turtill

(b)(6)

From: Anderson, Joseph
Sent: Monday, March 21, 2011 9:27 AM
To: OST01 HOC
Cc: Dudek, Michael; Kozal, Jason; Kahler, Robert; Williams, Kevin; Kowalczyk, Jeffrey; Trocine, Leigh
Subject: RE: FOIA information request
Attachments: image001.png

Clarification still needed. Based on my brief discussion with the on-duty USAID Recovery Manager on Saturday, she indicated that USAID is not responsible to honor FOIA requests on other agencies.

My believe is that correspondence to and from RMRPACTSU_ELNRC@ofda.gov should be adequate captured through OPS Center e-mail traffic.

From: Nelson, Robert
Sent: Monday, March 21, 2011 8:47 AM
To: OST01 HOC
Cc: Dudek, Michael; Kozal, Jason; Kahler, Robert; Williams, Kevin; Kowalczyk, Jeffrey; Trocine, Leigh; Anderson, Joseph
Subject: RE: FOIA information request

I am not responsible for the Op Center's response to this FOIA. Attached is the guidance we have distributed to the staff in my division.

R.A. Nelson

Robert A. Nelson
Captain, US Navy (Retired)
Deputy Director
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation



E-mail: robert.nelson@nrc.gov | Office: (301) 415-1453 | Cell: (b)(6) | Fax: (301) 415-2102

From: OST01 HOC
Sent: Sunday, March 20, 2011 12:05 AM
To: Nelson, Robert
Cc: Dudek, Michael; Kozal, Jason; Kahler, Robert; Williams, Kevin; Kowalczyk, Jeffrey; Trocine, Leigh; Anderson, Joseph
Subject: RE: FOIA information request

Good Morning Mr. Nelson,

Scott Morris told me to send this clarification request on to you. Please notify the EST Coordinator of your decision. Whoever is on shift can be reached at this email (OST01.hoc@nrc.gov).

Thanks,
Rebecca Stone
EST Coordinator

RRR/69

From: Anderson, Joseph
Sent: Saturday, March 19, 2011 12:50 PM
To: OST01 HOC
Cc: Dudek, Michael; Kozal, Jason; Kahler, Robert; Williams, Kevin; Kowalczyk, Jeffrey; Trocine, Leigh
Subject: RE: FOIA information request

Clarification requested. NRC Liaisons at USAID are using a USAID e-mail account (RMTPACTSU_ELNRC@ofda.gov) to communicate between Response Management Team Groups. Since this is not an NRC account, I would assume this does not apply. However, e-mails sent by and received from NRC staff from/to USAID - specifically from NRC Liaisons, would be captured as part of e-mail traffic received/sent by OPS Center teams and, as such, should be forwarded to by these respective OPS Center teams.

If this assessment is incorrect, then I would request that someone reach out to USAID to provide further clarification to USAID before we forward e-mails contained in their e-mail accounts.

From: OST01 HOC
Sent: Saturday, March 19, 2011 6:54 AM
To: Dudek, Michael; Kozal, Jason; Kowalczyk, Jeffrey; Trocine, Leigh; Anderson, Joseph; Kahler, Robert; Williams, Kevin
Subject: FOIA information request

Good Morning All,

The staff of the HOC has received a broad scope FOIA request from the Associated Press requiring the release of all communications pertaining to the Japanese nuclear incidents caused by the March 11, 2011, earthquake and tsunami.

In response to this request, an email account is being created as a FOIA drop box. In the near future, you will be required to forward all emails that you have received (either to your personal email or HOC computer email) relating to these events to the established drop box. This includes emails that you have deleted but have the ability to restore. In addition, all future emails pertaining to the Japanese nuclear incidents **MUST** be copied to this drop box. The address is FOIAResource.hoc@nrc.gov.

A team is currently being assembled to ensure that all forwarded communications will be reviewed, and any information that qualifies for exemption (including P.I.I.) will be redacted. Therefore, you do not need to filter or redact any communication that is to be forwarded for compliance with this FOIA request.

This request has been granted expedited processing. It requires timely action from each of us to comply within the time constraints.

If you have any questions or concerns, please contact Rebecca Stone, Melissa Ralph, or Jonathan Fiske.

NOTE: If any other NRC employees take shifts at USAID, please forward this email to them. Thanks!

From: Cook, William
Sent: Tuesday, March 22, 2011 6:49 PM
To: Monninger, John; Weber, Michael; LIA02 Hoc; RST01 Hoc; LIA03 Hoc
Cc: Casto, Chuck; Dorman, Dan; 'YoungJM@state.gov'
Subject: RE: Media Contact

Just so everyone knows, there were about a dozen media types on the Flight Line observing the second C17 off-load operations at Yokota. I was not interviewed, but there were a lot of videos and pictures being taken while we were talking with Admiral Gregory.

Bill

From: Monninger, John
Sent: Tuesday, March 22, 2011 6:16 PM
To: Weber, Michael; LIA02 Hoc; RST01 Hoc; LIA03 Hoc
Cc: Casto, Chuck; Dorman, Dan; 'YoungJM@state.gov'; Cook, William
Subject: Fw: Media Contact

ET

See below regarding interest in US/NRC/INPO/Bechtel activities in Australia. Do you want coordinated response with NRC OPA with the Embassy here?

John M

John Monninger
202-365-2207

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

From: Rogers, Ed <CEROGER1@Bechtel.com>

To: Young, Joseph M <YoungJM@state.gov>; Merchant, Ned <cemercha@bechtel.com>; (b)(6)

(b)(6) Monninger, John

Cc: Thomas, Eugene <ewthomas@bechtel.com>; (b)(6)

(b)(6); Daw, Martyn <mndaw@bechtel.com>

Sent: Tue Mar 22 14:46:47 2011

Subject: Media Contact

Joe, I am sending this to you because I am not sure who to reach out to on the following request. That said, anyone on the distribution can answer.

Our folks in Australia have apparently been contacted by several media sources (they used the words inundated) making inquiries on the work we are doing for you all. We would appreciate an appropriate media contact to forward these calls too.

Please let me know soonest.

RRR/TO

Ed Rogers

Office (240) 379-3179

Cell (b)(6)

From: LIA02 Hoc
Sent: Tuesday, March 22, 2011 4:25 PM
To: LIA03 Hoc
Subject: FW: Jack Giessner's Revised Itinerary
Attachments: Travel Reservation for John Geissner.docx

From: RMTPACTSU_ELNRC [mailto:RMTPACTSU_ELNRC@ofda.gov]
Sent: Tuesday, March 22, 2011 4:12 PM
To: LIA01 Hoc; LIA02 Hoc; ET07 Hoc
Subject: Jack Giessner's Revised Itinerary

From: RMTPACTSU_AC
Sent: Tuesday, March 22, 2011 4:05 PM
To: RMTPACTSU_ELNRC
Subject: RE: Converted Files - NRC Travelers to Tokyo on March 24th

See attached for John Geissner's revised itinerary.

From: RMTPACTSU_AC
Sent: Tuesday, March 22, 2011 3:27 PM
To: usaid@manassastravel.com
Cc: RMTPACTSU_ELNRC; 'Giessner, John'; travel
Subject: RE: Converted Files - NRC Travelers to Tokyo on March 24th

Hi MT Team – Please note Mr. Geissner's request below. Can you please accommodate this and send us a new itinerary after you have made the change.

Thanks,
Surin McKenna
Admin Coordinator
Pacific Tsunami and Japan Earthquake Response Management Team
USAID/DCHA/OFDA
Rmtpactsu_ac@ofda.gov
202-712-0031

From: Giessner, John [mailto:John.Giessner@nrc.gov]
Sent: Tuesday, March 22, 2011 3:22 PM
To: RMTPACTSU_ELNRC; RMTPACTSU_AC
Subject: RE: Converted Files - NRC Travelers to Tokyo on March 24th

Hi, I appreciate trying to get me the flights close to my home address. But during the work-week I am actually at my duty station, Lisle IL. Would it be possible to delete the Kalamazoo leg to O'Hare and just have the flight in and out of O'Hare?

RRR/71

Is it too late?
Sorry I was not clear.

Jack Giessner

(b)(6) cell

From: RMTPACTSU_ELNRC [mailto:RMTPACTSU_ELNRC@ofda.gov]

Sent: Tuesday, March 22, 2011 2:15 PM

To: Taylor, Robert; Sheikh, Abdul; Miller, Marie; (b)(6) Ali, Syed; Way, Ralph; Giessner, John; Mamish, Nader; LIA11 Hoc; LIA01 Hoc; ET07 Hoc

Subject: Converted Files - NRC Travelers to Tokyo on March 24th

Subject: RE: NRC Traveling to Tokyo on Mar 24

I apologize for the technical glitch on previously-sent pdf files. Attached are the words version of the itineraries. Please let me know if you are still unable to review them.

Regards,

Surin McKenna

Admin Coordinator

Pacific Tsunami and Japan Earthquake Response Management Team

USAID/DCHA/OFDA

Rmtpactsu_ac@ofda.gov

202-712-0031

From: RMTPACTSU_AC

Sent: Tuesday, March 22, 2011 1:37 PM

To: RMTPACTSU_ELNRC

Cc: RMTPACTSU_DMO; RMTPACTSU_CRC; travel; Johnson, Natalya

Subject: NRC Traveling to Tokyo on Mar 24

Attached are the respective airline reservations and the group country clearance request for your six NRC colleagues who are scheduled to depart for Japan on Mar 24. Our travel team is currently working on their invitational TAs and will forward you a copy upon approval.

It would be much appreciated if you can forward the itineraries and any in-country/arrival instructions to each individual traveler. Please feel free to contact me or OFDA Travel Team if you have any questions.

Thanks,

Surin McKenna

Admin Coordinator

Pacific Tsunami and Japan Earthquake Response Management Team

USAID/DCHA/OFDA

Rmtpactsu_ac@ofda.gov

202-712-0031

24 MAR 2011 ▶ 07 APR 2011

TRIP TO TOKYO NARITA, JAPAN

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RESERVATION CODE **IMGPMV**

DEPARTURE: **THURSDAY 24 MAR** ▶ ARRIVAL: **FRIDAY 25 MAR**

Please verify flight times prior to departure

UNITED AIRLINES

IAD WASHINGTON DULLES, DC ▶ NRT TOKYO NARITA, JAPAN

Aircraft:
BOEING 777 JET

Departing At:
01:22pm
(Thu, Mar 24)

Arriving At:
04:35pm
(Fri, Mar 25)

Distance (Miles):
6762

Stop(s):
0

UA 0897

Terminal:
Not Available

Terminal:
TERMINAL 1

Duration:
14hr(s) :13min(s)

Passenger Name: » RALPH WAY Seats: 14B / Confirmed Class: Business Status: Confirmed Airline Res. Code: MV1JVD Meals: Lunch

DEPARTURE: **THURSDAY 07 APR** Please verify flight times prior to departure

UNITED AIRLINES

NRT TOKYO NARITA, JAPAN ▶ IAD WASHINGTON DULLES, DC

Aircraft:
BOEING 777 JET

Departing At:
04:00pm

Arriving At:
03:37pm

Distance (Miles):
6762

Stop(s):
0

UA 0804

Terminal:
TERMINAL 1

Terminal:
Not Available

Duration:
12hr(s) :37min(s)

Passenger Name: » RALPH WAY Seats: 38H / Confirmed Class: Economy Status: Confirmed Airline Res. Code: MV1JVD Meals: Dinner, Lunch

OTHER: MONDAY 05 SEP

OTHER

WAS
WASHINGTON, DC

Information:
TOTAL FARE
AMOUNT 7090.20

Status:
Confirmed

OTHER: MONDAY 05 SEP

OTHER

WAS
WASHINGTON, DC

Information:
YOUR SERVICE
FEE TOTAL IS
31.95

Status:
Confirmed

Notes

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24 MAR 2011 ▶ 07 APR 2011

TRIP TO TOKYO NARITA, JAPAN

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RESERVATION CODE **GNQXHH**

DEPARTURE: **THURSDAY 24 MAR** Please verify flight times prior to departure

**AMERICAN
AIRLINES**

AZO
KALAMAZOO, MI

▶ ORD
CHICAGO OHARE, IL

Aircraft:
EMBRAER RJ140
JET

Departing At:
10:30am

Arriving At:
10:25am

Distance (Miles):
0120

Terminal:
Not Available

Terminal:
TERMINAL 3

Stop(s):
0

AA 3949

Operated by:
AMERICAN EAGLE

Duration:
00hr(s) :55min(s)

Passenger Name: Seats: Class: Status: Airline Res. Code: Meals:
» JOHN BERNARD GIESSNER 08B / Confirmed Economy Confirmed GNQXHH Food for Purchase

DEPARTURE: **THURSDAY 24 MAR** ▶ ARRIVAL: **FRIDAY 25 MAR**
Please verify flight times prior to departure

**AMERICAN
AIRLINES**

ORD
CHICAGO OHARE, IL

▶ NRT
TOKYO NARITA, JAPAN

Aircraft:
BOEING 777 JET

Departing At:
11:15am
(Thu, Mar 24)

Arriving At:
02:15pm
(Fri, Mar 25)

Distance (Miles):
6283

Terminal:
TERMINAL 3

Terminal:
TERMINAL 2


Stop(s):
0

AA 0153

Duration:

13hr(s) :00min(s)

Passenger Name: » JOHN BERNARD GIESSNER Seats: 13B / Confirmed Class: Business Status: Confirmed Airline Res. Code: GNQXHH Meals: Lunch, Dinner

 DEPARTURE: **THURSDAY 07 APR** Please verify flight times prior to departure

**AMERICAN
AIRLINES**

NRT TOKYO NARITA, JAPAN	▶ ORD CHICAGO OHARE, IL	Aircraft: BOEING 777 JET
Departing At: 06:15pm	Arriving At: 04:05pm	Distance (Miles): 6283
Terminal: TERMINAL 2	Terminal: TERMINAL 5 INTERNATIONAL	Stop(s): 0

AA 0154

Duration:
11hr(s) :50min(s)

Passenger Name: » JOHN BERNARD GIESSNER Seats: 22G / Confirmed Class: Economy Status: Confirmed Airline Res. Code: GNQXHH Meals: Dinner, Snack

 DEPARTURE: **THURSDAY 07 APR** Please verify flight times prior to departure

**AMERICAN
AIRLINES**

ORD CHICAGO OHARE, IL	▶ AZO KALAMAZOO, MI	Aircraft: ERJ-145 JET
Departing At: 08:55pm	Arriving At: 10:40pm	Distance (Miles): 0120
Terminal: TERMINAL 3	Terminal: Not Available	Stop(s): 0

AA 4350

Operated by:
AMERICAN EAGLE

Duration:
00hr(s) :45min(s)

Passenger Name: Seats: Class: Status: Airline Res. Code: Meals:
» JOHN BERNARD GIESSNER 11B / Confirmed Economy Confirmed GNQXHH Food for Purchase

OTHER: MONDAY 05 DEC

OTHER WAS
WASHINGTON, DC

Information:
TOTAL AIRFARE
IS 3807.30

Status:
Confirmed

OTHER: MONDAY 05 DEC

OTHER WAS
WASHINGTON, DC

Information:
TOTAL SERVICE
FEE IS 31.95

Status:
Confirmed

Notes

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Please verify flight times prior to departure

UNITED AIRLINES

IAD WASHINGTON DULLES, DC ▶ NRT TOKYO NARITA, JAPAN

Aircraft:
BOEING 777 JET

Departing At:
01:22pm
(Thu, Mar 24)

Arriving At:
04:35pm
(Fri, Mar 25)

Distance (Miles):
6762

Stop(s):
0

UA 0897

Terminal:
Not Available

Terminal:
TERMINAL 1

Duration:
14hr(s) :13min(s)

Passenger Name:	Seats:	Class:	Status:	Airline Res. Code:	Meals:
» ROBERT MATHEW TAYLOR	14A / Confirmed	Business	Confirmed	MWPWM1	Lunch

 **DEPARTURE: THURSDAY 07 APR** Please verify flight times prior to departure

UNITED AIRLINES

NRT TOKYO NARITA, JAPAN ▶ IAD WASHINGTON DULLES, DC

Aircraft:
BOEING 777 JET

Departing At:
04:00pm

Arriving At:
03:37pm

Distance (Miles):
6762

Stop(s):
0

UA 0804

Terminal:
TERMINAL 1

Terminal:
Not Available

Duration:
12hr(s) :37min(s)

Passenger Name:	Seats:	Class:	Status:	Airline Res. Code:	Meals:
-----------------	--------	--------	---------	--------------------	--------

» ROBERT MATHEW TAYLOR 40H / Confirmed Economy Confirmed MWPWM1

Dinner, Lunch

OTHER: MONDAY 05 SEP

OTHER

WAS
WASHINGTON, DC

Status:
Confirmed

Information:
TOTAL FARE
AMOUNT 7090.20
IS NOT
GUARANTEED
UNTIL TICKETED

OTHER: MONDAY 05 SEP

OTHER

WAS
WASHINGTON, DC

Status:
Confirmed

Information:
YOUR SERVICE
FEE TOTAL IS
31.95

Notes

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24 MAR 2011 ▶ 07 APR 2011

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Please verify flight times prior to departure

UNITED AIRLINES

IAD WASHINGTON DULLES, DC ▶ NRT TOKYO NARITA, JAPAN

Aircraft:
BOEING 777 JET

Departing At:
01:22pm
(Thu, Mar 24)

Arriving At:
04:35pm
(Fri, Mar 25)

Distance (Miles):
6762

Stop(s):
0

UA 0897

Terminal:
Not Available

Terminal:
TERMINAL 1

Duration:
14hr(s) :13min(s)

Passenger Name: » SYED ALI Seats: 15D / Confirmed Class: Business Status: Confirmed Airline Res. Code: MXK62R Meals: Lunch

DEPARTURE: THURSDAY 07 APR Please verify flight times prior to departure

UNITED AIRLINES

NRT TOKYO NARITA, JAPAN ▶ IAD WASHINGTON DULLES, DC

Aircraft:
BOEING 777 JET

Departing At:
04:00pm

Arriving At:
03:37pm

Distance (Miles):
6762

Stop(s):
0

UA 0804

Terminal:
TERMINAL 1

Terminal:
Not Available

Duration:
12hr(s) :37min(s)

Passenger Name: Seats: Class: Status: Airline Res. Code: Meals:

» SYED ALI

41G / Confirmed

Economy Confirmed

MXK62R

Dinner, Lunch

OTHER: MONDAY 05 SEP

OTHER

WAS
WASHINGTON, DC

Status:
Confirmed

Information:
TOTAL FARE
AMOUNT 7090.20
IS NOT
GUARANTEED
UNTIL TICKETED

OTHER: MONDAY 05 SEP

OTHER

WAS
WASHINGTON, DC

Status:
Confirmed

Information:
YOUR SERVICE
FEE TOTAL IS
31.95

Notes

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DOMESTIC CHECK IN IS 90 MINUTES PRIOR TO DEPARTURE
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GOVERNMENT ISSUED PHOTO ID REQUIRED FOR CHECK IN AND
NAME AND BIRTHDATE MUST MATCH IDENTICALLY FOR CHECK IN.
RECONFIRM FLIGHTS 48 HRS PRIOR TO DEPARTURE. SEATS ARE
SUBJECT TO CANCELLATION 30 MINUTES PRIOR TO DEPARTURE

-----BAGGAGE-----

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-----CONTACT INFO-----

OFFICE HOURS MON-FRI 8A-5P/CLOSED WEEKENDS AND HOLIDAYS
CALL 866-343-5009 FOR ASSISTANCE DURING BUSINESS HOURS
EMERGENCY *AFTER HOURS* ASSISTANCE 888-818-1975
24 HR TRAVEL ASSISTANCE FOR INTERNATIONAL TRAVELERS
CALL COLLECT 801-281-3568 OR 801-783-2095

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-----LEISURE VACATION INFO-----

CONTACT A LEISURE SPECIALIST AT 866-343-5009 OPTION 3

24 MAR 2011 ▶ 07 APR 2011

TRIP TO TOKYO NARITA, JAPAN

PREPARED FOR
ABDUL HAI SHEIKH



Manassas Travel
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1-866-343-5009
USAID@MANASSASTRAVEL.COM

RESERVATION CODE **GSFXOR**

 **DEPARTURE: THURSDAY 24 MAR ▶ ARRIVAL: FRIDAY 25 MAR**
Please verify flight times prior to departure

UNITED AIRLINES	IAD WASHINGTON DULLES, DC	▶ NRT TOKYO NARITA, JAPAN	Aircraft: BOEING 777 JET
UA 0897	Departing At: 01:22pm (Thu, Mar 24)	Arriving At: 04:35pm (Fri, Mar 25)	Distance (Miles): 6762
Duration: 14hr(s) :13min(s)	Terminal: Not Available	Terminal: TERMINAL 1	Stop(s): 0

Passenger Name:	Seats:	Class:	Status:	Airline Res. Code:	Meals:
» ABDUL HAI SHEIKH	15H / Confirmed	Business	Confirmed	MWKLGF	Lunch

 **DEPARTURE: THURSDAY 07 APR** Please verify flight times prior to departure

UNITED AIRLINES	NRT TOKYO NARITA, JAPAN	▶ IAD WASHINGTON DULLES, DC	Aircraft: BOEING 777 JET
UA 0804	Departing At: 04:00pm	Arriving At: 03:37pm	Distance (Miles): 6762
Duration: 12hr(s) :37min(s)	Terminal: TERMINAL 1	Terminal: Not Available	Stop(s): 0

24 MAR 2011 ▶ 07 APR 2011

TRIP TO TOKYO NARITA, JAPAN

PREPARED FOR
MARIE TERESA MILLER



Manassas Travel
Personalized Travel Experiences
from Beginning to End.
1-866-343-5009
USAID@MANASSASTRAVEL.COM

RESERVATION CODE **LMQPUH**

DEPARTURE: **THURSDAY 24 MAR** Please verify flight times prior to departure

**AMERICAN
AIRLINES**

PHL PHILADELPHIA, PA ▶ ORD CHICAGO OHARE, IL

Departing At:
07:35am

Arriving At:
09:10am

Terminal:
TERMINAL A

Terminal:
TERMINAL 3

Aircraft:
MCDONNELL
DOUGLAS MD-80
JET

Distance (Miles):
0672

Stop(s):
0

AA 1265

Duration:
02hr(s) :35min(s)

Passenger Name: » MARIE TERESA MILLER Seats: 31D / Confirmed Class: Economy Status: Confirmed Airline Res. Code: LMQPUH Meals: Food for Purchase

DEPARTURE: **THURSDAY 24 MAR** ▶ ARRIVAL: **FRIDAY 25 MAR**
Please verify flight times prior to departure

**AMERICAN
AIRLINES**

ORD CHICAGO OHARE, IL ▶ NRT TOKYO NARITA, JAPAN

Departing At:
11:15am
(Thu, Mar 24)

Arriving At:
02:15pm
(Fri, Mar 25)

Terminal:
TERMINAL 3

Terminal:
TERMINAL 2

Aircraft:
BOEING 777 JET

Distance (Miles):
6283

Stop(s):
0

AA 0153

Duration:
13hr(s) :00min(s)

Passenger Name: » MARIE TERESA MILLER Seats: 13D / Confirmed Class: Business Status: Confirmed Airline Res. Code: LMQPUH Meals: Lunch, Dinner

 DEPARTURE: **THURSDAY 07 APR** Please verify flight times prior to departure

**AMERICAN
AIRLINES**

NRT
TOKYO NARITA,
JAPAN

DFW
DALLAS FT WORTH,
TX

Aircraft:
BOÉING 777 JET

Departing At:
06:10pm

Arriving At:
03:45pm

Distance (Miles):
6437

Terminal:
TERMINAL 2

Terminal:
TERMINAL D

Stop(s):
0

AA 0060

Duration:
11hr(s) :35min(s)

Passenger Name: » MARIE TERESA MILLER Seats: 38G / Confirmed Class: Economy Status: Confirmed Airline Res. Code: LMQPUH Meals: Dinner, Snack

 DEPARTURE: **THURSDAY 07 APR** Please verify flight times prior to departure

**AMERICAN
AIRLINES**

DFW
DALLAS FT WORTH, TX

PHL
PHILADELPHIA, PA

Aircraft:
MCDONNELL
DOUGLAS MD-80
JET

Departing At:
05:10pm

Arriving At:
09:15pm

Distance (Miles):
1297

Terminal:
Not Available

Terminal:
TERMINAL A

Stop(s):
0

AA 1086

Duration:
03hr(s) :05min(s)

Passenger Name: » MARIE TERESA MILLER Seats: Check-In Required Class: Economy Status: Confirmed Airline Res. Code: LMQPUH Meals: Food for Purchase

OTHER: MONDAY 05 SEP

OTHER

WAS
WASHINGTON, DC

Status:
Confirmed

Information:
TOTAL FARE
AMOUNT 3645.20
IS NOT
GUARANTEED
UNTIL TICKETED

OTHER: MONDAY 05 SEP

OTHER

WAS
WASHINGTON, DC

Status:
Confirmed

Information:
YOUR SERVICE
FEE TOTAL IS
31.95

Notes

-----MANASSAS TRAVEL DISCLAIMER-----

THANK YOU FOR BOOKING WITH MANASSAS TRAVEL
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-----LEISURE VACATION INFO-----

CONTACT A LEISURE SPECIALIST AT 866-343-5009 OPTION 3

From: Way, Ralph
Sent: Tuesday, March 22, 2011 6:52 AM
To: LIA03 Hoc; Dorman, Dan; Scott, Michael; Blamey, Alan; Giessner, John; Taylor, Robert; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc; Holahan, Patricia; Wiggins, Jim
Subject: RE: Instructions for NRC Deployees

Please see below. Does this answer the mail??

R

I am a Senior level Advisor in the Office of Nuclear Security and Incident Response. I served in the U.S. Marine Corps from (b)(6). During my military career, I gained considerable expertise in Explosive Operations, Weapons of Mass Destruction (WMD), WMD countermeasures, threat reduction technologies, and organizational responses to create sustainable security and safeguards programs. Among my specialized qualifications, I am a Department of Defense Certified Systems Acquisition Program Manager and Test and Evaluation Engineer; a Master EOD Technician; and an Occupational Safety and Health Administration qualified Supervisor of Hazardous Waste Management and Emergency Response Operations. I am a member International Society of Explosive Engineers; I serve on the Advisory Board of the International Association of Bomb Technicians and Investigators and as a Member of the International Association of Chiefs of Police's, Arson and Explosives Committee. I am a Distinguish Fellow at George Mason University's, Center for Infrastructure Protection and I also served on the Advisory Board of Fairleigh Dickinson University's Master of Science in Homeland Security Program, from 2007- 2010.

I earned a Bachelor of Science degree in Business Administration from the University of the State of New York, a Masters of Business Administration from National University, and a Doctor of Philosophy degree in Technology Management from Walden University.

From: LIA03 Hoc
Sent: Monday, March 21, 2011 7:14 PM
To: Dorman, Dan; Scott, Michael; Blamey, Alan; Giessner, John; Taylor, Robert; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc
Subject: FW: Instructions for NRC Deployees

Dear Outgoing Team – Please take note of the below email. Also, please send a 1 or 2 paragraph bio at your earliest convenience.

Thank You,
NRC International Liaison Team

From: LIA01 Hoc
Sent: Monday, March 21, 2011 7:03 PM

RRR/72

To: RMTPACTSU_ELNRC; LIA02 Hoc; LIA03 Hoc
Subject: Instructions for NRC Deployees

From Phone call with Chuck Casto in Japan:

NRC staff deploying to Japan should report to their hotel, get rest, report to the US Embassy in the AM

Ned Wright
NRC Federal Liaison

From: Monninger, John
Sent: Tuesday, March 22, 2011 8:04 PM
To: LIA02 Hoc; LIA03 Hoc
Subject: Re: Return travel plans

For planning purposes, assume Monninger departs by 3/31. Could definitely change and be earlier or later.

John Monninger
(b)(6)

From: LIA02 Hoc
To: Liaison Japan
Cc: Matheson, Mary; Mamish, Nader; LIA03 Hoc
Sent: Tue Mar 22 12:35:08 2011
Subject: Return travel plans

Good morning NRC Japan Team,

Please advise the Ops Center if any members of the original team plan to remain in Japan beyond March 31. We need this information because evidently you may require supplemental travel orders. Please reply to LIA02 and LIA03 with this information.

Thank you!

International Liaison Desk

RRR/73

From: OST02 HOC
Sent: Tuesday, March 22, 2011 8:33 PM
To: Hoc, PMT12; PMT11 Hoc; PMT01 Hoc; PMT02 Hoc
Subject: FW: IAEA distributed documents
Attachments: Env R M by Prefecture 20-Mar 1900 JST.pdf; Env R M by Prefecture 20-Mar 1300 JST.pdf; Env R M by Prefecture 19-Mar 1900 JST.pdf; Env R M by Prefecture 19-Mar 1300 JST.pdf; Env R M by Prefecture 18-Mar 1900 JST.pdf; Env R M by Prefecture 18-Mar 1300 JST.pdf; Env R M by Prefecture 17-Mar 1900 JST.pdf; Env R M by Prefecture 14th to 15th March.pdf; Drinking water data by prefecture 22-March.pdf; Drinking water data by prefecture 21-March.pdf; Drinking water data by prefecture 20-March.pdf; Drinking water data by prefecture 19-March.pdf; Deposition by prefecture March 21-22.pdf; Deposition by prefecture March 20-21.pdf; Deposition by prefecture March 19-20.pdf; Deposition by prefecture March 18-19.pdf

From: HOO Hoc [mailto:HOO.Hoc@nrc.gov]
Sent: Tuesday, March 22, 2011 8:28 PM
To: HOO Hoc; LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC
Subject: FW: IAEA distributed documents

From: David Kenagy (b)(6)
Sent: Tuesday, March 22, 2011 8:27:10 PM
To: Kenagy-MainState; vince.mcclelland@nnsa.doe.gov; Rodriguez, Veronica; ann.heinrich@nnsa.doe.gov; HOO Hoc; HOO2 Hoc; Huffman, William; decair.sara@epamail.epa.gov; timothy.greten@dhs.gov; maria.marinissen@hhs.gov (b)(6) doehgeoc@oem.doe.gov; hhs.soc@hhs.gov; james.kish@dhs.gov; HOO Hoc; Smith, Brooke; zubarevie@state.gov; shaffermr@state.gov; nitops@nnsa.doe.gov; skypektm@state.gov (b)(6) clark.ray@epamail.epa.gov; David Kenagy
Subject: RE: IAEA distributed documents
Auto forwarded by a Rule

RRR/74

Attachment Drinking water data by prefecture 20-March.pdf(126686 bytes) cannot be converted to PDF format.

Attachment Deposition by prefecture March 19-20.pdf(136505 bytes
) cannot be converted to PDF format.

Attachment Drinking water data by prefecture 19-March.pdf(125287 bytes) cannot be converted to PDF format.

Attachment Env R M by Prefecture 20-Mar 1300 JST.pdf(403163 bytes
) cannot be converted to PDF format.

Attachment Env R M by Prefecture 18-Mar 1900 JST.pdf(136164 bytes
) cannot be converted to PDF format.

Attachment Deposition by prefecture March 18-19.pdf(123331 bytes
) cannot be converted to PDF format.

Attachment Drinking water data by prefecture 22-March.pdf(42222 bytes) cannot be converted to PDF format.

Attachment Deposition by prefecture March 21-22.pdf(47221 bytes)
cannot be converted to PDF format.

Attachment Env R M by Prefecture 18-Mar 1300 JST.pdf(371823 bytes
) cannot be converted to PDF format.

	Prefecture (City)	Drinking Water		
		I-131	Cs-137	Remarks
1	Hokkaido (Sapporo City)	Not Detectable	Not Detectable	
2	Aomori (Aomori City)	Not Detectable	Not Detectable	
3	Iwate (Morioka City)	Not Detectable	Not Detectable	
4	Miyagi	-	-	Not be measured because of the earthquake disaster damage
5	Akita (Akita City)	Not Detectable	Not Detectable	
6	Yamagata (Yamagata City)	Not Detectable	Not Detectable	
7	Fukushima	-	-	*Refer to the website of Fukushima Pref (http://www.pref.fukushima.jp/j/index.htm)
8	Ibaraki	12	0.48	Measurements arrived, though delayed due to water stoppage
9	Tochigi (Utsunomiya City)	10	2.8	
10	Gunma (Maebashi City)	5.9	1.2	
11	Saitama (Saitama City)	2.0	Not Detectable	
12	Chiba (Ichihara City)	0.68	Not Detectable	
13	Tokyo (Shinjuku Ward)	2.9	Not Detectable	
14	Kanagawa (Chigasaki City)	0.46	Not Detectable	
15	Niigata (Niigata City)	3.6	Not Detectable	
16	Toyama (Imizu City)	Not Detectable	Not Detectable	
17	Ishikawa (Kanazawa City)	Not Detectable	Not Detectable	
18	Fukui (Fukui City)	Not Detectable	Not Detectable	
19	Yamanashi (Kofu City)	0.24	Not Detectable	
20	Nagano (Nagano City)	Not Detectable	Not Detectable	
21	Gifu (Kakamigahara City)	Not Detectable	Not Detectable	
22	Shizuoka (Shizuoka City)	Not Detectable	Not Detectable	
23	Aichi (Nagoya City)	Not Detectable	Not Detectable	
24	Mie (Yokkaichi City)	Not Detectable	Not Detectable	
25	Shiga (Otsu City)	Not Detectable	Not Detectable	
26	Kyoto (Kyoto City)	Not Detectable	Not Detectable	
27	Osaka (Osaka City)	Not Detectable	Not Detectable	
28	Hyogo (Kobe City)	Not Detectable	Not Detectable	
29	Nara	-	-	On Setting up the equipment
30	Wakayama (Wakayama City)	Not Detectable	Not Detectable	
31	Tottori (Tohaku District)	Not Detectable	Not Detectable	
32	Shimane (Matsue City)	Not Detectable	Not Detectable	
33	Okayama (Okayama City)	Not Detectable	Not Detectable	
34	Hiroshima (Hiroshima City)	Not Detectable	Not Detectable	
35	Yamaguchi (Ube City)	Not Detectable	Not Detectable	
36	Tokushima (Tokushima City)	Not Detectable	Not Detectable	
37	Kagawa (Takamatsu City)	Not Detectable	Not Detectable	
38	Ehime (Yawatahama City)	Not Detectable	Not Detectable	
39	Kochi (Kochi City)	Not Detectable	Not Detectable	
40	Fukuoka (Dazaifu City)	Not Detectable	Not Detectable	
41	Saga (Saga City)	Not Detectable	Not Detectable	
42	Nagasaki (Omura City)	Not Detectable	Not Detectable	
43	Kumamoto (Uto City)	Not Detectable	Not Detectable	
44	Oita (Oita City)	Not Detectable	Not Detectable	
45	Miyazaki (Miyazaki City)	Not Detectable	Not Detectable	
46	Kagoshima (Kagoshima City)	Not Detectable	Not Detectable	
47	Okinawa (Naha City)	Not Detectable	Not Detectable	

*These figures are estimated as 1Bq/litter = 1Bq/kg

*The table was made by MEXT, based on the reports from prefectures.

*"Emergency Preparedness for Nuclear Facilities (The Nuclear Safety Commission of Japan)", The index of drinking water based on the indicator about the restriction of food intake. I-131: More than 300Bq/kg. Cs

Attachment Deposition by prefecture March 20-21.pdf(47411 bytes)
cannot be converted to PDF format.

Attachment Env R M by Prefecture 17-Mar 1900 JST.pdf(135509 bytes
) cannot be converted to PDF format.

Attachment Env R M by Prefecture 19-Mar 1300 JST.pdf(411882 bytes
) cannot be converted to PDF format.

Attachment Env R M by Prefecture 19-Mar 1900 JST.pdf(158151 bytes
) cannot be converted to PDF format.

Attachment Env R M by Prefecture 20-Mar 1900 JST.pdf(137783 bytes
) cannot be converted to PDF format.

From: Mamish, Nader
Sent: Tuesday, March 22, 2011 3:21 PM
To: LIA02 Hoc; LIA03 Hoc
Subject: Fw: Converted Files - NRC Travelers to Tokyo on March 24th
Attachments: Travel Reservation for Syed Ali.docx; Travel Reservation for Abdul Sheikh.docx; Travel Reservation for John Geissner.docx; Travel Reservation for Marie Miller.docx; Travel Reservation for Ralph Way.docx; Travel Reservation for Robert Taylor.docx; eCC - [INFO ONLY, NO ACTION] - Itinerary #625906/Ali(+) REQUEST SUBMITTED, ARRIVAL: 3/25/2011

Sent from my NRC blackberry
Nader Mamish

(b)(6)

From: RMTFACTSU_ELNRC <RMTFACTSU_ELNRC@ofda.gov>
To: Taylor, Robert; Sheikh, Abdul; Miller, Marie; (b)(6); Ali, Syed; Way, Ralph; Giessner, John; Mamish, Nader; LIA11 Hoc; LIA01 Hoc; LIA07 Hoc
Sent: Tue Mar 22 15:14:53 2011
Subject: Converted Files - NRC Travelers to Tokyo on March 24th

Subject: RE: NRC Traveling to Tokyo on Mar 24

I apologize for the technical glitch on previously-sent pdf files. Attached are the words version of the itineraries. Please let me know if you are still unable to review them.

Regards,
Surin McKenna
Admin Coordinator
Pacific Tsunami and Japan Earthquake Response Management Team
USAID/DCHA/OFDA
Rmtpactsu_ac@ofda.gov
202-712-0031

From: RMTFACTSU_AC
Sent: Tuesday, March 22, 2011 1:37 PM
To: RMTFACTSU_ELNRC
Cc: RMTFACTSU_DMO; RMTFACTSU_CRC; travel; Johnson, Natalya
Subject: NRC Traveling to Tokyo on Mar 24

Attached are the respective airline reservations and the group country clearance request for your six NRC colleagues who are scheduled to depart for Japan on Mar 24. Our travel team is currently working on their invitational TAs and will forward you a copy upon approval.

It would be much appreciated if you can forward the itineraries and any in-country/arrival instructions to each individual traveler. Please feel free to contact me or OFDA Travel Team if you have any questions.

RRR/75

Thanks,

Surin McKenna

Admin Coordinator

Pacific Tsunami and Japan Earthquake Response Management Team

USAID/DCHA/OFDA

Rmtpactsu_ac@ofda.gov

202-712-0031

From: Price, Erik N LTC PACOM, J91 (b)(6)
Sent: Tuesday, March 22, 2011 7:23 PM
To: CMS TaskForce1D - Japan - Deputy Coordinator; RMTFACTSU_RM@ofda.gov; ET07 Hoc; (b)(6) hhs.soc@hhs.gov
Cc: zTask Force 1 Mailbox; Arulanantham, David P CIV PACOM J9; Gouveia, Sharon E CIV PACOM J005
Subject: RE: Reminder: 2130 Conference call

CMS,

From PACOM:

Foreign Policy Advisor's Office

Mr. David Arulanantham
Ms. Sharon Gouveia

From PACOM Staff

LTC Erik Price (Joint Interagency Coordination Group)
COL Hauge (Division Chief J51 (East Asia))

LTC Erik N. Price
Chief JIACG
USPACOM J91

O: (808) 477-8088

NIPR: (b)(6)

AKO: (b)(6)

SIPR: (b)(6)

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

From: CMS TaskForce1D - Japan - Deputy Coordinator [mailto:1TFD@state.gov]

Sent: Tuesday, March 22, 2011 11:22 AM

To: Price, Erik N LTC PACOM, J91; RMTFACTSU_RM@ofda.gov; et07.hoc@nrc.gov; (b)(6)

hhs.soc@hhs.gov

Cc: zTask Force 1 Mailbox

Subject: Reminder: 2130 Conference call

Good evening,

Could you please confirm your attendance or the name of someone from your office who will participate in the 2130 conference call on your behalf?

RRR/TK

Best,

Mary Beth Polley

Deputy Coordinator

Japan Earthquake Task Force (TFJP01)

U.S. Department of State

(202) 647-6611

From: LIA08 Hoc
Sent: Tuesday, March 22, 2011 6:01 PM
To: 1TFD@state.gov
Cc: ET07 Hoc
Subject: FW: Reminder: 2130 Conference call

Nathan Sanfilippo will participate from NRC HQ in Washington.

From: ET07 Hoc
Sent: Tuesday, March 22, 2011 5:53 PM
To: LIA08 Hoc; LIA06 Hoc
Subject: FW: Reminder: 2130 Conference call

From: CMS TaskForce1D - Japan - Deputy Coordinator [mailto:1TFD@state.gov]
Sent: Tuesday, March 22, 2011 5:22 PM
To: (b)(6) RMTPACTSU_RM@ofda.gov; ET07 Hoc; (b)(6)
hhs.soc@hhs.gov
Cc: zTask Force 1 Mailbox
Subject: Reminder: 2130 Conference call

Good evening,

Could you please confirm your attendance or the name of someone from your office who will participate in the 2130 conference call on your behalf?

Best,

Mary Beth Polley

Deputy Coordinator
Japan Earthquake Task Force (TFJP01)
U.S. Department of State
(202) 647-6611

RRR/77

From: OST02 HOC
Sent: Tuesday, March 22, 2011 8:11 PM
To: RST01 Hoc; Hoc, PMT12; PMT01 Hoc; PMT02 Hoc; PMT11 Hoc
Subject: FW: IAEA distributed documents
Attachments: Plant Status No 42 a(English).pdf; Plant Status No 42 (English).pdf; Plant parameter (japanese).pdf; NEA Compilation Emergency Response Governmental Decision and Recommendation.pdf; Letter - Summary of reactor unit status at 1700 22-March UTC.pdf; Plant Environmental Monitoring data (Japanese).pdf; NISA_METI-Press_Release_43(English).pdf; Plant Environment Monitoring Data No 40 (English).pdf; Seawater sampling No 41-attachment (English).pdf; 110322 _Seawater_Monitoring(Japanese).pdf; Plant Environment Monitoring Data No.42 (English).pdf; NISA40_plant situation summary a (Jap).pdf

From: HOO Hoc [mailto:HOO.Hoc@nrc.gov]
Sent: Tuesday, March 22, 2011 8:10 PM
To: HOO Hoc; LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC
Subject: FW: IAEA distributed documents

From: David Kenagy (b)(6)
Sent: Tuesday, March 22, 2011 8:08:56 PM
To: Kenagy-MainState; vince.mcclelland@nnsa.doe.gov; Rodriguez, Veronica; ann.heinrich@nnsa.doe.gov; HOO Hoc; HOO2 Hoc; Huffman, William; decair.sara@epamail.epa.gov; timothy.grelen@dhs.gov; maria.marinissen@hhs.gov; (b)(6) doehqeoc@oem.doe.gov; hhs.soc@hhs.gov; james.kish@dhs.gov; HOO Hoc; Smith, Brooke; zubarevie@state.gov; shaffermr@state.gov; nitops@nnsa.doe.gov; skypektm@state.gov; (b)(6) clark.ray@epamail.epa.gov; David Kenagy
Subject: RE: IAEA distributed documents
Auto forwarded by a Rule

RRR/78

From: Hoc, PMT12
Sent: Wednesday, April 06, 2011 8:43 AM
To: PMT02 Hoc; PMT11 Hoc
Subject: FW: Radiation data by MEXT
Attachments: (Japanese)20110406_20.pdf; (Japanese) 20110406_21.pdf; (Japanese)20110406_22.pdf;
(Japanese) 20110406_23.pdf; (Japanese) 20110406_24.pdf; (unofficial)
(Japanese)20110406_20with lat_long.pdf

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

From: eda@mext.go.jp [mailto:eda@mext.go.jp]

Sent: Wednesday, April 06, 2011 8:25 AM

(b)(6)

Subject: Radiation data by MEXT

Dear Sir,

Please see attached the document.

Sincerely yours,

Kei EDA

EDC, Ministry of Education, Culture, Sports, Science & Technology (MEXT), Japan

RRR/79

福島第一原子力発電所の20km以遠のモニタリング結果について

平成23年4月6日 19時00分現在
文 部 科 学 省

○文部科学省が集計した結果 注)太下線データが今回追加分

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置			測定位置 の備考	天候	実施者
			N	E	値			
測定エリア【1】 (約60km北西)	4月6日14時58分	1.5 ^{*2}	N: 37	44	12.6	20110330 確認	降雨なし	日本原子力研究開発機構
			E: 140	28	02.9			
測定エリア【1】 (約60km北西)	4月6日8時45分	1.4 ^{*2}	N: 37	44	12.6	20110330 確認	降雨なし	文部科学省
			E: 140	28	02.9			
測定エリア【2】 (約55km北西)	4月6日9時12分	2.5 ^{*2}	N: 37	41	12.7	20110330 確認	降雨なし	日本原子力研究開発機構
			E: 140	33	29.3			
測定エリア【3】 (約45km北西)	4月6日10時51分	3.9 ^{*2}	N: 37	45	40.5	20110330 確認	降雨なし	日本原子力研究開発機構
			E: 140	44	19.9			
測定エリア【4】 (約50km北西)	4月6日9時34分	1.2 ^{*2}	N: 37	39	30.0	20110330 確認	降雨なし	文部科学省
			E: 140	35	54.0			
測定エリア【5】 (約45km北)	4月6日11時36分	0.8 ^{*2}	N: 37	47	17.4	20110330 確認	降雨なし	日本原子力研究開発機構
			E: 140	55	59.1			
測定エリア【6】 (約35km北)	4月6日11時54分	1.0 ^{*2}	N: 37	42	09.5	20110330 確認	降雨なし	日本原子力研究開発機構
			E: 140	58	04.6			
測定エリア【7】 (約35km北)	4月6日12時03分	0.8 ^{*2}	N: 37	41	49.0	20110330 確認	降雨なし	日本原子力研究開発機構
			E: 140	57	57.7			
測定エリア【10】 (約40km北西)	4月6日9時48分	1.1 ^{*2}	N: 37	36	02.9	20110403 確認	降雨なし	文部科学省
			E: 140	35	07.3			
測定エリア【11】 (約40km北西)	4月6日9時56分	1.5 ^{*2}	N: 37	34	00.0	20110330 確認	降雨なし	文部科学省
			E: 140	34	48.0			
測定エリア【12】 (約40km西)	4月6日11時23分	0.3 ^{*2}	N: 37	25	53.6	20110330 確認	降雨なし	文部科学省
			E: 140	35	44.2			
測定エリア【13】 (約40km西)	4月6日12時25分	0.5 ^{*2}	N: 37	26	21.5	20110330 確認	降雨なし	文部科学省
			E: 140	37	20.7			
測定エリア【14】 (約35km西)	4月6日12時32分	0.2 ^{*2}	N: 37	26	09.4	20110330 確認	降雨なし	文部科学省
			E: 140	38	49.5			
測定エリア【15】 (約35km西)	4月6日12時41分	1.0 ^{*2}	N: 37	26	54.0	20110330 確認	降雨なし	文部科学省
			E: 140	40	53.2			
測定エリア【20】 (約45km北西)	4月6日10時25分	0.7 ^{*2}	N: 37	29	24.2	20110330 確認	降雨なし	文部科学省
			E: 140	34	54.2			
測定エリア【21】 (約30km西西北西)	4月6日10時52分	3.0 ^{*2}	N: 37	30	28.7	20110330 確認	降雨なし	文部科学省
			E: 140	42	08.7			

- *1 GM(ガイガーミュラー計測管)における値
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- *4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置			測定位置 の備考	天候	実施者
測定エリア【22】(約35km西北西)	4月6日10時41分	0.5 *2	N: 37° 30'	41.3"	20110330 確認	降雨なし	文部科学省	
			E: 140° 39'	28.8"				
測定エリア【23】(約35km西北西)	4月6日10時33分	0.9 *2	N: 37° 30'	18.9"	20110330 確認	降雨なし	文部科学省	
			E: 140° 34'	40.6"				
測定エリア【31】(約30km西北西)	4月6日11時37分	10.9 *2	N: 37° 33'	45.0"	20110330 確認	降雨なし	日本原子力研究開発機構	
E: 140° 44'	49.9"							
測定エリア【32】(約30km北西)	4月6日11時58分	25.8 *2	N: 37° 35'	42.0"	20110330 確認	降雨なし	日本原子力研究開発機構	
E: 140° 45'	14.5"							
測定エリア【33】(約30km北西)	4月6日12時17分	13.2 *2	N: 37° 36'	34.6"	20110330 確認	降雨なし	日本原子力研究開発機構	
E: 140° 45'	09.1"							
測定エリア【34】(約30km北西)	4月6日14時00分	6.8 *2	N: 37° 33'	03.2"	20110330 確認	降雨なし	日本原子力研究開発機構	
E: 140° 44'	25.0"							
測定エリア【36】(約40km北西)	4月6日11時03分	4.1 *2	N: 37° 36'	20.6"	20110331 確認	降雨なし	日本原子力研究開発機構	
E: 140° 37'	58.9"							
測定エリア【37】(約50km北西)	4月6日10時38分	3.7 *2	N: 37° 45'	06.7"	20110402 確認	降雨なし	日本原子力研究開発機構	
E: 140° 41'	29.2"							
測定エリア【38】(約35km南)	4月6日14時22分	0.7 *2	N: 37° 07'	18.4"	20110401 確認	降雨なし	文部科学省	
E: 140° 57'	03.8"							
測定エリア【39】(約45km北)	4月6日11時15分	0.3 *2	N: 37° 45'	52.7"	20110402 確認	降雨なし	日本原子力研究開発機構	
E: 140° 51'	47.1"							
測定エリア【71】(約25km南)	4月6日15時14分	1.4 *2	N: 37° 12'	32.4"	20110323 確認	降雨なし	文部科学省	
E: 140° 57'	08.2"							
測定エリア【71】(約25km南)	4月6日8時15分	1.1 *2	N: 37° 12'	32.4"	20110323 確認	降雨なし	警察(NBC対策部隊)	
E: 140° 57'	08.2"							
測定エリア【72】(約30km南)	4月6日14時55分	1.5 *2				降雨なし	文部科学省	
測定エリア【72】(約30km南)	4月6日8時50分	0.9 *2				降雨なし	警察(NBC対策部隊)	
測定エリア【73】(約35km南)	4月6日14時36分	1.4 *2				降雨なし	文部科学省	
測定エリア【73】(約35km南)	4月6日9時10分	0.4 *2				降雨なし	警察(NBC対策部隊)	
測定エリア【74】(約35km南)	4月6日14時03分	0.4 *2				降雨なし	文部科学省	
測定エリア【74】(約35km南)	4月6日7時21分	0.3 *2				降雨なし	警察(NBC対策部隊)	
測定エリア【75】(約45km南)	4月6日13時40分	0.6 *2				降雨なし	文部科学省	
測定エリア【75】(約45km南)	4月6日6時58分	0.4 *2				降雨なし	警察(NBC対策部隊)	
測定エリア【76】(約20km南西)	4月6日13時39分	0.7 *2	N: 37° 20'	25.3"	20110402 確認	降雨なし	文部科学省	
E: 140° 48'	25.7"							

- * 1 GM(ガイガーミュラー計測管)における値
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- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置	測定位置 の備考	天候	実施者
測定エリア【76】(約20km南西)	4月6日12時22分	0.3 ^{*2}	N: 37° 20' 25.3" E: 140° 48' 25.7"	20110402 確認	降雨なし	警察(NBC対策部隊)
測定エリア【77】(約25km南西)	4月6日12時01分	1.2 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【78】(約45km北西)	4月6日7時48分	1.1 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【79】(約30km北西)	4月6日13時21分	15.5 ^{*2}			降雨なし	日本原子力研究開発機構
測定エリア【79】(約30km北西)	4月6日9時59分	13.6 ^{*2}	N: 37° 33' 22.2" E: 140° 45' 46.9"	20110323 確認	降雨なし	警察(NBC対策部隊)
測定エリア【80】(約25km北)	4月6日13時08分	0.9 ^{*2}	N: 37° 33' 22.2" E: 140° 45' 46.9"	20110323 確認	降雨なし	日本原子力研究開発機構
測定エリア【80】(約25km北)	4月6日11時40分	0.2 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【81】(約30km北西)	4月6日8時39分	28.3 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【83】(約20km北西)	4月6日13時42分	58.8 ^{*2}			降雨なし	日本原子力研究開発機構
測定エリア【83】(約20km北西)	4月6日10時22分	52.5 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【84】(約40km南西)	4月6日13時06分	0.5 ^{*2}	N: 37° 10' 20.0" E: 140° 43' 30.7"	20110330 確認	降雨なし	文部科学省
測定エリア【85】(約60km北西)	4月6日14時00分	0.6 ^{*2}	N: 37° 42' 45.0" E: 140° 22' 59.0"	20110330 確認	降雨なし	防衛省
測定エリア【85】(約60km北西)	4月6日 6時00分	0.6 ^{*2}	N: 37° 42' 45.0" E: 140° 22' 59.0"	20110330 確認	降雨なし	防衛省
測定エリア【86】(約55km西)	4月6日 14時00分	1.1 ^{*2}	N: 37° 23' 57.0" E: 140° 19' 35.0"	20110330 確認	降雨なし	防衛省
測定エリア【86】(約55km西)	4月6日 6時00分	1.0 ^{*2}	N: 37° 23' 57.0" E: 140° 19' 35.0"	20110330 確認	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月6日 14時00分	1.3 ^{*2}	N: 37° 21' 42.0" E: 140° 42' 54.0"	20110330 確認	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月6日 6時00分	1.0 ^{*2}	N: 37° 21' 42.0" E: 140° 42' 54.0"	20110330 確認	降雨なし	防衛省

福島第一原子力発電所の20km以遠のモニタリング結果について

平成23年4月6日 19時00分現在
文 部 科 学 省

○文部科学省が集計した結果 注)太下線データが今回追加分

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【1】 (約60km北西)	4月6日14時58分	1.5 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【1】 (約60km北西)	4月6日8時45分	1.4 ^{*2}	降雨なし	文部科学省
測定エリア【2】 (約55km北西)	4月6日9時12分	2.5 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【3】 (約45km北西)	4月6日10時51分	3.9 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【4】 (約50km北西)	4月6日9時34分	1.2 ^{*2}	降雨なし	文部科学省
測定エリア【5】 (約45km北)	4月6日11時36分	0.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【6】 (約35km北)	4月6日11時54分	1.0 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【7】 (約35km北)	4月6日12時03分	0.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【10】 (約40km北西)	4月6日9時48分	1.1 ^{*2}	降雨なし	文部科学省
測定エリア【11】 (約40km北西)	4月6日9時56分	1.5 ^{*2}	降雨なし	文部科学省
測定エリア【12】 (約40km西)	4月6日11時23分	0.3 ^{*2}	降雨なし	文部科学省
測定エリア【13】 (約40km西)	4月6日12時25分	0.5 ^{*2}	降雨なし	文部科学省
測定エリア【14】 (約35km西)	4月6日12時32分	0.2 ^{*2}	降雨なし	文部科学省
測定エリア【15】 (約35km西)	4月6日12時41分	1.0 ^{*2}	降雨なし	文部科学省
測定エリア【20】 (約45km北西)	4月6日10時25分	0.7 ^{*2}	降雨なし	文部科学省
測定エリア【21】 (約30km西北西)	4月6日10時52分	3.0 ^{*2}	降雨なし	文部科学省

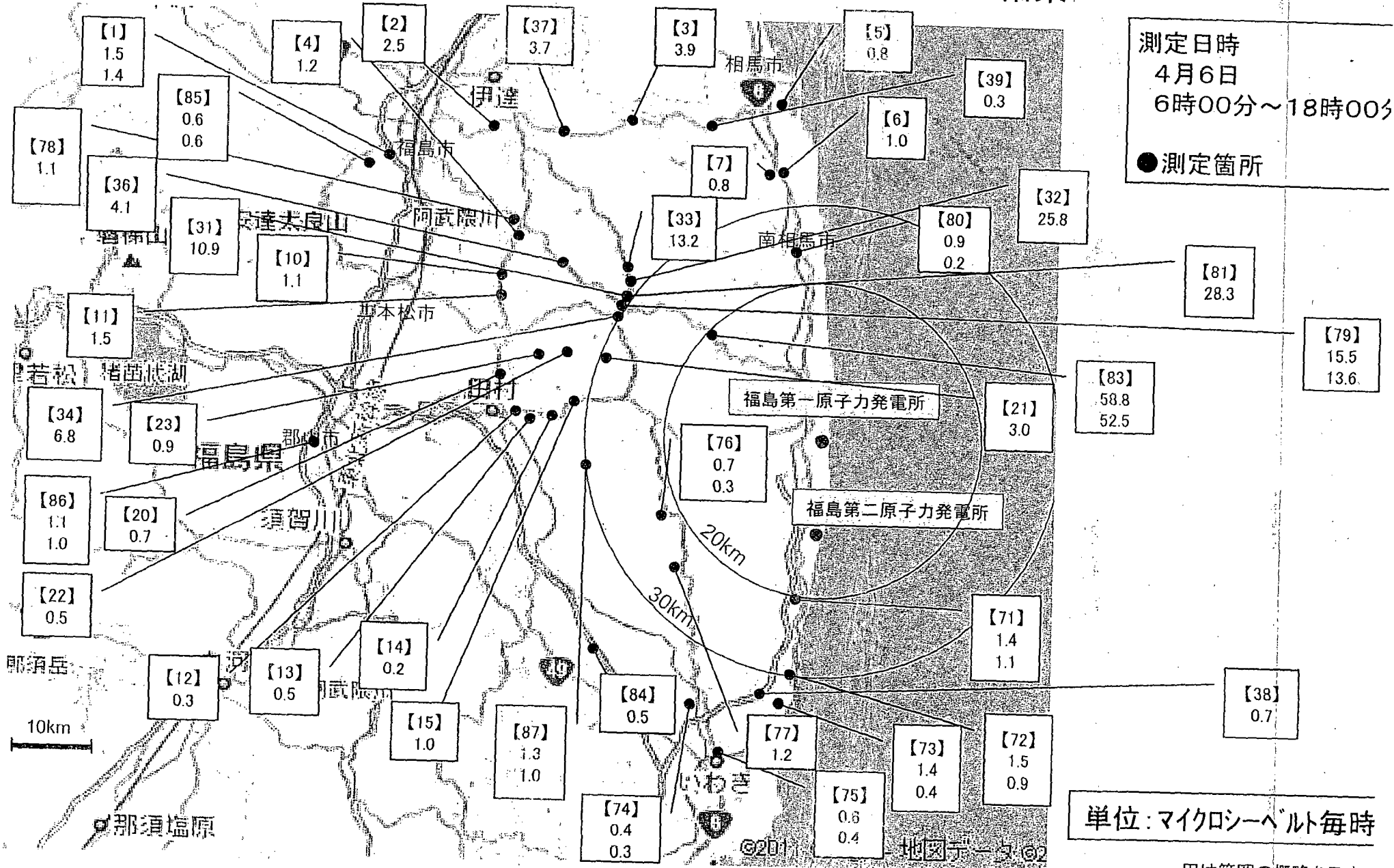
- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
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場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【22】(約35km西北西)	4月6日10時41分	0.5 ^{*2}	降雨なし	文部科学省
測定エリア【23】(約35km西北西)	4月6日10時33分	0.9 ^{*2}	降雨なし	文部科学省
測定エリア【31】(約30km西北西)	4月6日11時37分	10.9 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【32】(約30km北西)	4月6日11時58分	25.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【33】(約30km北西)	4月6日12時17分	13.2 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【34】(約30km北西)	4月6日14時00分	6.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【36】(約40km北西)	4月6日11時03分	4.1 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【37】(約50km北西)	4月6日10時38分	3.7 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【38】(約35km南)	4月6日14時22分	0.7 ^{*2}	降雨なし	文部科学省
測定エリア【39】(約45km北)	4月6日11時15分	0.3 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【71】(約25km南)	4月6日15時14分	1.4 ^{*2}	降雨なし	文部科学省
測定エリア【71】(約25km南)	4月6日8時15分	1.1 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【72】(約30km南)	4月6日14時55分	1.5 ^{*2}	降雨なし	文部科学省
測定エリア【72】(約30km南)	4月6日8時50分	0.9 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【73】(約35km南)	4月6日14時36分	1.4 ^{*2}	降雨なし	文部科学省
測定エリア【73】(約35km南)	4月6日9時10分	0.4 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【74】(約35km南)	4月6日14時03分	0.4 ^{*2}	降雨なし	文部科学省
測定エリア【74】(約35km南)	4月6日7時21分	0.3 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【75】(約45km南)	4月6日13時40分	0.6 ^{*2}	降雨なし	文部科学省
測定エリア【75】(約45km南)	4月6日6時58分	0.4 ^{*2}	降雨なし	警察(NBC対策部隊)

- *1 GM(ガイガーミュラー計測管)における値
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- *4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【76】(約20km南西)	4月6日13時39分	0.7 ^{*2}	降雨なし	文部科学省
測定エリア【76】(約20km南西)	4月6日12時22分	0.3 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【77】(約25km南西)	4月6日12時01分	1.2 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【78】(約45km北西)	4月6日7時48分	1.1 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【79】(約30km北西)	4月6日13時21分	15.5 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【79】(約30km北西)	4月6日9時59分	13.6 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【80】(約25km北)	4月6日13時08分	0.9 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【80】(約25km北)	4月6日11時40分	0.2 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【81】(約30km北西)	4月6日8時39分	28.3 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【83】(約20km北西)	4月6日13時42分	58.8 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【83】(約20km北西)	4月6日10時22分	52.5 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【84】(約40km南西)	4月6日13時06分	0.5 ^{*2}	降雨なし	文部科学省
測定エリア【85】(約60km北西)	4月6日14時00分	0.6 ^{*2}	降雨なし	防衛省
測定エリア【85】(約60km北西)	4月6日 6時00分	0.6 ^{*2}	降雨なし	防衛省
測定エリア【86】(約55km西)	4月6日 14時00分	1.1 ^{*2}	降雨なし	防衛省
測定エリア【86】(約55km西)	4月6日 6時00分	1.0 ^{*2}	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月6日 14時00分	1.3 ^{*2}	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月6日 6時00分	1.0 ^{*2}	降雨なし	防衛省

福島第一原子力発電所周辺のモニタリング結果



	都道府県名	定時降下物		
		I-131	Cs-137	備考
1	北海道(札幌市)	不検出	不検出	
2	青森県(青森市)	不検出	不検出	
3	岩手県(盛岡市)	不検出	不検出	
4	宮城県	-	-	震災被害によって計測不能
5	秋田県(秋田市)	不検出	不検出	
6	山形県(山形市)	不検出	19	
7	福島県(福島市)	-	-	現在測定中
8	茨城県(ひたちなか市)	10	不検出	
9	栃木県(宇都宮市)	-	-	現在測定中
10	群馬県(前橋市)	3.4	5.6	
11	埼玉県(さいたま市)	5.3	11	
12	千葉県(市原市)	不検出	10	
13	東京都(新宿区)	8.2	5.6	
14	神奈川県(茅ヶ崎市)	不検出	不検出	
15	新潟県(新潟市)	不検出	不検出	
16	富山県(射水市)	不検出	不検出	
17	石川県(金沢市)	不検出	不検出	
18	福井県(福井市)	不検出	不検出	
19	山梨県(甲府市)	不検出	4.9	
20	長野県(長野市)	不検出	不検出	
21	岐阜県(各務原市)	不検出	不検出	
22	静岡県(御前崎市)	不検出	不検出	
23	愛知県(名古屋市)	不検出	不検出	
24	三重県(四日市市)	不検出	不検出	
25	滋賀県(大津市)	不検出	不検出	
26	京都府(京都市)	不検出	不検出	
27	大阪府(大阪市)	不検出	不検出	
28	兵庫県(神戸市)	不検出	不検出	
29	奈良県(奈良市)	不検出	不検出	
30	和歌山県(和歌山市)	不検出	不検出	
31	鳥取県(東伯郡)	不検出	不検出	
32	島根県(松江市)	不検出	不検出	
33	岡山県(岡山市)	不検出	不検出	
34	広島県(広島市)	不検出	不検出	
35	山口県(山口市)	不検出	不検出	
36	徳島県(徳島市)	不検出	不検出	
37	香川県(高松市)	不検出	不検出	
38	愛媛県(八幡浜市)	不検出	不検出	
39	高知県(高知市)	不検出	不検出	
40	福岡県(太宰府市)	不検出	不検出	
41	佐賀県(佐賀市)	不検出	不検出	
42	長崎県(大村市)	不検出	不検出	
43	熊本県(宇土市)	不検出	不検出	
44	大分県(大分市)	不検出	不検出	
45	宮崎県(宮崎市)	2.5	不検出	
46	鹿児島県(鹿児島市)	不検出	不検出	
47	沖縄県(南城市)	-	-	機器トラブル 調整中

*文部科学省が各都道府県等からの報告に基づき作成

環境放射能水準調査結果

H23.4.6 19:00

(μ Sv/h(マイクロシーベルト毎時))

	都道府県名	4月5日							4月6日							過去の平常値の範囲
		17-18	18-19	19-20	20-21	21-22	22-23	23-24	0-1	1-2	2-3	3-4	4-5	5-6	6-7	
1	北海道(札幌市)	0.029	0.028	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.02~0.105
2	青森県(青森市)	0.026	0.026	0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.017~0.102
3	岩手県(盛岡市)	0.024	0.025	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.014~0.084
4	宮城県(仙台市)	0.080	0.079	0.078	0.077	0.077	0.076	0.076	0.071	0.071	0.071	0.071	0.070	0.071	0.071	0.0176~0.0513
5	秋田県(秋田市)	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.037	0.022~0.086
6	山形県(山形市)	0.060	0.060	0.061	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.061	0.025~0.082
7	福島県(福島市)	2.500	2.500	2.400	2.400	2.400	2.500	2.400	2.400	2.400	2.400	2.400	2.500	2.400	2.400	0.037~0.046
8	茨城県(水戸市)	0.164	0.163	0.163	0.163	0.163	0.163	0.163	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.036~0.056
9	栃木県(宇都宮市)	0.080	0.080	0.080	0.080	0.080	0.079	0.080	0.081	0.081	0.081	0.081	0.081	0.082	0.082	0.030~0.067
10	群馬県(前橋市)	0.045	0.046	0.045	0.046	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.047	0.017~0.045
11	埼玉県(さいたま市)	0.070	0.069	0.069	0.069	0.069	0.070	0.069	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.031~0.060
12	千葉県(市原市)	0.061	0.062	0.061	0.061	0.061	0.061	0.062	0.063	0.063	0.063	0.062	0.063	0.063	0.063	0.022~0.044
13	東京都(新宿区)	0.088	0.087	0.087	0.087	0.087	0.087	0.087	0.089	0.089	0.089	0.089	0.088	0.089	0.089	0.028~0.079
14	神奈川県(茅ヶ崎市)	0.061	0.061	0.062	0.062	0.062	0.062	0.062	0.063	0.063	0.063	0.063	0.062	0.063	0.063	0.035~0.069
15	新潟県(新潟市)	0.046	0.046	0.046	0.046	0.046	0.047	0.047	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.031~0.153
16	富山県(射水市)	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.029~0.147
17	石川県(金沢市)	0.047	0.047	0.047	0.046	0.047	0.047	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.0291~0.1275
18	福井県(福井市)	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.032~0.097
19	山梨県(甲府市)	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.043	0.043	0.043	0.044	0.043	0.044	0.044	0.040~0.064
20	長野県(長野市)	0.043	0.044	0.043	0.043	0.043	0.044	0.044	0.045	0.045	0.046	0.045	0.046	0.045	0.046	0.0299~0.0974
21	岐阜県(各務原市)	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.061	0.061	0.061	0.061	0.057~0.110
22	静岡県(静岡市)	0.037	0.036	0.037	0.037	0.037	0.038	0.038	0.037	0.038	0.039	0.038	0.039	0.039	0.040	0.0281~0.0765
23	愛知県(名古屋市)	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.035~0.074
24	三重県(四日市市)	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.0416~0.0789
25	滋賀県(大津市)	0.032	0.032	0.033	0.032	0.032	0.033	0.033	0.033	0.034	0.033	0.034	0.034	0.034	0.034	0.031~0.061
26	京都府(京都市)	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.039	0.040	0.039	0.040	0.033~0.087
27	大阪府(大阪市)	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.043	0.043	0.043	0.043	0.042~0.061
28	兵庫県(神戸市)	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035~0.076
29	奈良県(奈良市)	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.049	0.049	0.049	0.046~0.08
30	和歌山県(和歌山市)	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.031	0.032	0.032	0.032	0.033	0.033	0.033	0.031~0.056
31	鳥取県(東伯郡)	0.062	0.063	0.063	0.063	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.036~0.11
32	島根県(松江市)	0.046	0.046	0.046	0.047	0.046	0.047	0.047	0.046	0.047	0.047	0.047	0.047	0.048	0.048	0.037~0.131
33	岡山県(岡山市)	0.048	0.048	0.048	0.048	0.049	0.050	0.050	0.048	0.049	0.050	0.050	0.050	0.051	0.051	0.043~0.104
34	広島県(広島市)	0.046	0.046	0.046	0.046	0.047	0.048	0.048	0.047	0.047	0.046	0.047	0.047	0.047	0.047	0.035~0.069
35	山口県(山口市)	0.093	0.093	0.093	0.094	0.094	0.095	0.095	0.094	0.095	0.095	0.095	0.096	0.096	0.097	0.084~0.128
36	徳島県(徳島市)	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.037	0.037~0.067
37	香川県(高松市)	0.059	0.060	0.061	0.063	0.064	0.065	0.066	0.066	0.067	0.067	0.071	0.068	0.068	0.056	0.051~0.077
38	愛媛県(松山市)	0.047	0.047	0.047	0.048	0.049	0.049	0.049	0.047	0.047	0.047	0.047	0.048	0.049	0.049	0.045~0.074
39	高知県(高知市)	0.024	0.024	0.024	0.025	0.025	0.025	0.025	0.024	0.024	0.025	0.025	0.026	0.026	0.026	0.023~0.076
40	福岡県(太宰府市)	0.036	0.036	0.036	0.036	0.036	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.036	0.034~0.079
41	佐賀県(佐賀市)	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.037~0.086
42	長崎県(大村市)	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.027~0.069
43	熊本県(宇土市)	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.028	0.028	0.021~0.067
44	大分県(大分市)	0.049	0.049	0.049	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.049	0.050	0.048~0.085
45	宮崎県(宮崎市)	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.0243~0.0664
46	鹿児島県(鹿児島市)	0.034	0.034	0.035	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.0306~0.0943
47	沖縄県(うるま市)	0.021	0.021	0.021	0.021	0.021	0.020	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.0133~0.0575

*宮城県では、可搬型モニタリングポストによる測定。

*福島県では、双葉郡のモニタリングポストが避難区域に入っており、測定が困難であるため、代替地として福島市紅葉山局モニタリングポストで測定。

*島根県では、機器点検のため、4月4日17時から代替機器により測定。

*空欄は機器点検等のための欠測等

*本データは、 1μ Gy/h(マイクログレイ毎時)= 1μ Sv/h(マイクロシーベルト毎時)と換算して算出

*文部科学省が各都道府県等からの報告に基づき作成

環境放射能水準調査結果

H23.4.6 19:00

(μ Sv/h(マイクロシーベルト毎時))

	都道府県名	4月6日										過去の平常値の範囲
		7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	
1	北海道(札幌市)	0.028	0.028	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.028	0.02~0.105
2	青森県(青森市)	0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.017~0.102
3	岩手県(盛岡市)	0.026	0.025	0.025	0.024	0.024	0.024	0.024	0.025	0.024	0.024	0.014~0.084
4	宮城県(仙台市)	0.073	0.078	0.082	0.084	0.083	0.083	0.083	0.082	0.081	0.081	0.0176~0.0513
5	秋田県(秋田市)	0.036	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.022~0.086
6	山形県(山形市)	0.060	0.060	0.060	0.060	0.060	0.059	0.060	0.060	0.060	0.060	0.025~0.082
7	福島県(福島市)	2.500	2.400	2.400	2.400	2.400	2.400	2.400				0.037~0.046
8	茨城県(水戸市)	0.166	0.166	0.161	0.162	0.162	0.162	0.162	0.162	0.161	0.161	0.036~0.056
9	栃木県(宇都宮市)	0.082	0.081	0.079	0.079	0.078	0.079	0.078	0.078	0.078	0.078	0.030~0.067
10	群馬県(前橋市)	0.046	0.046	0.046	0.045	0.045	0.044	0.044	0.044	0.044	0.044	0.017~0.045
11	埼玉県(さいたま市)	0.071	0.071	0.070	0.069	0.069	0.069	0.069	0.069	0.068	0.068	0.031~0.060
12	千葉県(市原市)	0.062	0.062	0.061	0.061	0.061	0.060	0.060	0.060	0.060	0.060	0.022~0.044
13	東京都(新宿区)	0.089	0.089	0.089	0.088	0.088	0.088	0.088	0.087	0.087	0.087	0.028~0.079
14	神奈川県(茅ヶ崎市)	0.061	0.062	0.061	0.061	0.061	0.061	0.060	0.061	0.061	0.061	0.035~0.069
15	新潟県(新潟市)	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.031~0.153
16	富山県(射水市)	0.049	0.049	0.049	0.049	0.048	0.048	0.048	0.048	0.048	0.048	0.029~0.147
17	石川県(金沢市)	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.047	0.046	0.047	0.0291~0.1275
18	福井県(福井市)	0.047	0.047	0.046	0.045	0.045	0.044	0.044	0.044	0.044	0.044	0.032~0.097
19	山梨県(甲府市)	0.044	0.044	0.044	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.040~0.064
20	長野県(長野市)	0.046	0.045	0.045	0.044	0.044	0.043	0.043	0.043	0.043	0.044	0.0299~0.0974
21	岐阜県(各務原市)	0.061	0.061	0.061	0.061	0.060	0.060	0.060	0.060	0.060	0.060	0.057~0.110
22	静岡県(静岡市)	0.038	0.037	0.037	0.040	0.042	0.041	0.039	0.038	0.038	0.038	0.0281~0.0765
23	愛知県(名古屋市)	0.041	0.041	0.041	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.035~0.074
24	三重県(四日市市)	0.047	0.046	0.046	0.047	0.046	0.046	0.046	0.047	0.046	0.046	0.0416~0.0789
25	滋賀県(大津市)	0.034	0.034	0.035	0.034	0.034	0.033	0.032	0.032	0.032	0.032	0.031~0.061
26	京都府(京都市)	0.040	0.039	0.038	0.038	0.038	0.037	0.037	0.038	0.037	0.038	0.033~0.087
27	大阪府(大阪市)	0.043	0.043	0.043	0.043	0.042	0.042	0.042	0.042	0.042	0.042	0.042~0.061
28	兵庫県(神戸市)	0.036	0.036	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.035~0.076
29	奈良県(奈良市)	0.049	0.048	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.046~0.08
30	和歌山県(和歌山市)	0.033	0.032	0.033	0.032	0.031	0.031	0.031	0.031	0.031	0.031	0.031~0.056
31	鳥取県(東伯郡)	0.064	0.063	0.064	0.064	0.064	0.063	0.063	0.063	0.063	0.063	0.036~0.11
32	島根県(松江市)	0.047	0.047	0.048	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.037~0.131
33	岡山県(岡山市)	0.051	0.050	0.050	0.049	0.049	0.048	0.048	0.048	0.048	0.048	0.043~0.104
34	広島県(広島市)	0.047	0.047	0.048	0.047	0.047	0.046	0.046	0.046	0.046	0.046	0.035~0.069
35	山口県(山口市)	0.098	0.097	0.094	0.093	0.093	0.093	0.093	0.093	0.093	0.092	0.084~0.128
36	徳島県(徳島市)	0.037	0.037	0.038	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037~0.067
37	香川県(高松市)	0.062	0.056	0.063	0.062	0.058	0.054	0.054	0.054	0.054	0.055	0.051~0.077
38	愛媛県(松山市)	0.048	0.047	0.048	0.048	0.048	0.047	0.047	0.047	0.046	0.047	0.045~0.074
39	高知県(高知市)	0.026	0.026	0.025	0.025	0.024	0.024	0.024	0.024	0.024	0.024	0.023~0.076
40	福岡県(太宰府市)	0.036	0.036	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.034~0.079
41	佐賀県(佐賀市)	0.040	0.040	0.041	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.037~0.086
42	長崎県(大村市)	0.029	0.029	0.030	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.027~0.069
43	熊本県(宇土市)	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.021~0.067
44	大分県(大分市)	0.050	0.050	0.051	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.048~0.085
45	宮崎県(宮崎市)	0.027	0.028	0.026	0.026	0.025	0.026	0.026	0.026	0.026	0.026	0.0243~0.0664
46	鹿児島県(鹿児島市)	0.035	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.0306~0.0943
47	沖縄県(うるま市)	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.0133~0.0575

*宮城県では、可搬型モニタリングポストによる測定。

*福島県では、双葉郡のモニタリングポストが避難区域に入っており、測定が困難であるため、代替地として福島市紅葉山局モニタリングポストで測定。

*島根県では、機器点検のため、4月4日17時から代替機器により測定。

*空欄は機器点検等のための欠測等

*本データは、1 μ Gy/h(マイクログレイ毎時)=1 μ Sv/h(マイクロシーベルト毎時)と換算して算出

*文部科学省が各都道府県等からの報告に基づき作成

H23.4.6 19:00

 μ Sv/h(マイクロシーベルト毎時)

日時	日本原子力研究開発機構 原子力科学研究所 (茨城県東海村)	日本原子力研究開発機構 核燃料サイクル工学研究所 (茨城県東海村)	東京大学弥生 (茨城県東海村)
4月6日			
0:00	1.22	0.69	0.96
1:00	1.22	0.69	1.08
2:00	1.23	0.69	1.02
3:00	1.23	0.69	0.98
4:00	1.22	0.69	0.96
5:00	1.22	0.69	1.01
6:00	1.22	0.69	0.90
7:00	1.22	0.69	0.93
8:00	1.21	0.69	1.04
9:00	1.21	0.68	0.88
10:00	1.21	0.68	0.92
11:00	1.20	0.68	0.93
12:00	1.20	0.68	0.97
13:00	1.20	0.68	0.98
14:00	1.20	0.68	0.91
15:00	1.20	0.68	0.95
16:00	1.20	0.68	0.93
17:00	1.20	0.68	0.87
18:00	1.20	0.67	

※このデータは、表記の3カ所における空間線量率を1時間毎に計測したものである。日本原子力研究開発機構原子力科学研究所及び日本原子力研究開発機構核燃料サイクル工学研究所のデータは、それぞれ以下のホームページでも掲載されている。

日本原子力研究開発機構原子力科学研究所

<http://erms.jaea.go.jp/Chart.htm>

日本原子力研究開発機構核燃料サイクル工学研究所

http://www.jaea.go.jp/04/ztokai/kankyo/realtime/tbl_10mStPo01.html

From: CMS TaskForce1D - Japan - Deputy Coordinator <1TFD@state.gov>
Sent: Tuesday, March 22, 2011 7:00 PM
To: (b)(6)
(b)(6)
Subject: TaskForce-1 - Japan; TaskForce-3 - Libya; SES-O_Shift-III; EAP-Staff-Assistants-DL
Attachments: 03-22 2130 - Agenda Conf Call.docx
03-22, 2130 - Agenda Conf Call.docx

Good evening,

Attached is the agenda for tonight's 2130 interagency conference call on Japan. It is also pasted below for bb users.

To join the call, please dial (202) 647-1512 and ask to be added to the Japan conference call. A pin number is not needed.

Conference Call
March 22, 2011, at 2130 EDT

Proposed Agenda:

- Fukushima Mitigation Efforts and Update
 - Embassy Tokyo
 - DOE
 - NRC
 - Offers of Assistance
- Potassium Iodide Distribution
 - DOD
 - Embassy Tokyo
- Humanitarian Assistance
 - RMT/OFDA Washington
 - DOD
- Conditions on the ground in Tokyo
 - Post Operations (Embassy Tokyo)
 - Radiation concerns (DOE)
 - Returning personnel (Embassy Tokyo)

BRP/80

- Strategic Messaging

Participants:

DOE nitops@nnsa.doe.gov
Policy Cell Doug Freemont

OSD (b)(6)
Deputy Assistant Secretary of Defense James Schear
OSD Japan Desk
OSD WMD
OSD Humanitarian Assistance/Disaster Relief
OSD Crisis Command Cell

NOAA james.turner@noaa.gov dan.thompson@noaa.gov
Dr James Turner, Senior Advisor for International Activities

Joint Staff J-5 (b)(6)
Major Angelique Brown, Japan Country Director

NRC et07.hoc@nrc.gov
Nathan Sanfilippo

OFDA RMTPACTSU_RM@ofda.gov (note the underscore)
Phil Gelman

PACOM confirm with RMTPACTSU_RM@ofda.gov (b)(6)
LTC Erik Price

USFJ Col. Jeff Witze

HHS: .

STATE:

Tong, Kurt W
Seiden, Maya D
Mace, Casey K
Leou, Nancy W
Klevorick, Caitlin B
Moy, Kin W
Gatz, Karen L
Donovan, Joseph R
Shear, David B
Deming, Rust
Embassy Tokyo

Copy on STATE Distro:
Task Force 1, Task Force 3, SES-O_Shift-III, EAP-Staff-Assistants-DL

Conference Call
March 22, 2011, at 2130 EDT

Proposed Agenda:

- Fukushima Mitigation Efforts and Update
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 - Offers of Assistance
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- Strategic Messaging

Participants:

DOE nitops@nnsa.doe.gov

Policy Cell Doug Freemont

OSD (b)(6)

Deputy Assistant Secretary of Defense James Schear

OSD Japan Desk

OSD WMD

OSD Humanitarian Assistance/Disaster Relief

OSD Crisis Command Cell

NOAA james.turner@noaa.gov dan.thompson@noaa.gov
Dr James Turner, Senior Advisor for International Activities

Joint Staff J-5 (b)(6)
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HHS:

STATE:

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Donovan, Joseph R
Shear, David B
Deming, Rust
Embassy Tokyo

Copy on STATE Distro:

Task Force 1, Task Force 3, SES-O_Shift-III, EAP-Staff-Assistants-DL

From: OST05 Hoc
Sent: Tuesday, March 22, 2011 9:14 PM
To: Hoc, PMT12; PMT03 Hoc
Cc: McNamara, Nancy; LIA04 Hoc; Turtill, Richard
Subject: FW: Questions: Japan contaminated articles

Per our conversation, we have received a question below regarding radiation air monitoring. Do we have a contact for EPA so that States who have questions about RadNet may contact EPA directly?

Thanks
Michelle

Michelle Ryan
State Liaison – Liaison Team
NRC Operations Center

From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 6:33 PM
To: LIA04 Hoc; OST05 Hoc
Subject: Questions: Japan contaminated articles

Two emails referring questions regarding contaminated articles coming into the country. Please advise.

From: Collins, Daniel
Sent: Tuesday, March 22, 2011 6:25 PM
To: McNamara, Nancy; Tiff, Doug
Cc: Lorson, Raymond; Orendi, Monica; Janda, Donna
Subject: RE: Japan contaminated articles

Nancy –

FYI. We also received a call from New Jersey about some contaminated news crew equipment that got cleared by customs when it came through JFK (returning from Japan). The equipment went to a warehouse in NJ, where it was identified as contaminated when the warehouse owner hired a consultant to perform surveys of the equipment. NJ did not have a detailed isotopic analysis.

We also touched base with Region III and Region IV to see if they have had similar calls. Region III is aware of an individual (a pilot?) who came through Chicago-Ohare and was determined to be contaminated. Region IV is aware of some medical equipment that went through DFW and was identified as being contaminated.

In addition to the contaminated people/equipment, we received a call from the Commonwealth of Virginia. They were contacted by the Comprehensive Test Ban Treaty site in Charlottesville, VA, who notified VA that they (the CTBT site) were detecting radioactivity. VA wanted to know if NRC is tracking/trending isotopic activity/dispersion over the US and who they can talk to. VA did not have info on isotopes or concentrations.

We informed the R-1 RDO and contacted the ops center liaison team and shared this info with them so they can assimilate the info and feed it to the appropriate part(s) of NRC to help develop a coordinated response to these types of issues.

Please call me on black berry (b)(6) if you wish to discuss further.

Thanks,
Dan

From: Modes, Kathy
Sent: Tuesday, March 22, 2011 12:28 PM
To: Scenci, Diane
Cc: Roberts, Mark; Lorson, Raymond; Collins, Daniel
Subject: Japan contaminated articles

Just got off the phone with Hank Siegrist, RSO for Cabrera Services (NRC Service Provider licensee from Connecticut). Hank wanted to know how to handle this situation:

News crews have returned to the US and their articles are slightly contaminated. It is fixed contamination. No removable contamination. Hank measured 50,000 dpm/100 square cm and a dose rate of 1 microrem above background. His guess is that it is approximately 85% Cs-137, 10% I-131 and 5% Sr-90. The articles are in a plastic radioactive labeled bag and he informed the news crew that he would contact the NRC about disposal. One of his staff used to work for the NRC and recalls this happening after Chernobyl. Should Hank tell the news crew to contact a radwaste broker (see list of brokers on www.crcpd.org website) or what?

Hank Siegrist cell: (b)(6)

Any assistance and guidance would be appreciated.

Thanks,

Kathy Modes
Senior Health Physicist
Decommissioning Branch
USNRC - Region I - DNMS
(P) 610.337.5251
(F) 610.337.5269

From: LIA04 Hoc
Sent: Tuesday, March 22, 2011 7:19 PM
To: LIA06 Hoc
Subject: FW: Questions: Japan contaminated articles

LT Director please advise

From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 6:33 PM
To: LIA04 Hoc; OST05 Hoc
Subject: Questions: Japan contaminated articles

Two emails referring questions regarding contaminated articles coming into the country. Please advise.

From: Collins, Daniel
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To: McNamara, Nancy; Tiff, Doug
Cc: Lorson, Raymond; Orendi, Monica; Janda, Donna
Subject: RE: Japan contaminated articles

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Please call me on black berry (b)(6) if you wish to discuss further.

Thanks,
Dan

From: Modes, Kathy
Sent: Tuesday, March 22, 2011 12:28 PM
To: Screnci, Diane

RRR/82

Cc: Roberts, Mark; Lorson, Raymond; Collins, Daniel
Subject: Japan contaminated articles

Just got off the phone with Hank Siegrist, RSO for Cabrera Services (NRC Service Provider licensee from Connecticut). Hank wanted to know how to handle this situation:

News crews have returned to the US and their articles are slightly contaminated. It is fixed contamination. No removable contamination. Hank measured 50,000 dpm/100 square cm and a dose rate of 1 microrem above background. His guess is that it is approximately 85% Cs-137, 10% I-131 and 5% Sr-90. The articles are in a plastic radioactive labeled bag and he informed the news crew that he would contact the NRC about disposal. One of his staff used to work for the NRC and recalls this happening after Chernobyl. Should Hank tell the news crew to contact a radwaste broker (see list of brokers on www.crcpd.org website) or what?

Hank Siegrist cell:

Any assistance and guidance would be appreciated.

Thanks,

Kathy Modes

Senior Health Physicist
Decommissioning Branch
USNRC - Region I - DNMS
(P) 610.337.5251
(F) 610.337.5260

From: Jackson, Karen
Sent: Wednesday, March 23, 2011 12:35 PM
To: LIA02 Hoc; LIA03 Hoc
Cc: ET02 Hoc; Stransky, Robert; Khan, Omar; Brown, Cris; Karen Jackson; Figueroa, Roberto; Trefethen, Jean
Subject: FW: Two new team members
Signed By: karen.jackson@nrc.gov
Importance: High

Please send all requests for blackberries and laptops to the ET02 account so whomever is performing the Response Ops Systems Manager function can process the requests through the proper channels. This position will work with the OIP staff sitting in the LT room to assist with sending staff to Japan and meeting their IT needs. Thanks very much.

...karen jackson

Emergency Response Coordinator
DPR/NSIR/USNRC
Office: 301-415-6398
Cell: (b)(6)
MS: T-4L7
e-mail: karen.jackson@nrc.gov

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 12:26 PM
To: Stransky, Robert
Cc: Jackson, Karen; LIA03 Hoc; Stahl, Eric; Emche, Danielle
Subject: Two new team members

Bob,

Here is an update on our new Japan team. Danielle Emche from OIP will be departing for Japan on Saturday (3/26) and Eric Stahl from OIP will depart on Monday (3/28). Danielle's blackberry number is (b)(6) and Eric's is (b)(6). Please let them know whether their blackberries are equipped to work in Japan or whether they will need new phones. Thanks!

RRR/83

From: Hoc, PMT12
Sent: Wednesday, March 23, 2011 6:15 PM
To: PMT03 Hoc
Subject: FW: Fukushima Power Plant winds 0700L

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

From: NITOPS [mailto:NITOPS@nnsa.doe.gov]
Sent: Wednesday, March 23, 2011 6:13 PM
To: CMHT; HOO Hoc; NARAC; PMT01 Hoc; PMT02 Hoc; Hoc, PMT12
Cc: NITOPS
Subject: FW: Fukushima Power Plant winds 0700L

Nuclear Incident Team (NIT)
Office of Emergency Response (NA-42)
National Nuclear Security Administration
U.S. Department of Energy
nitops@nnsa.doe.gov
nit@doe.gov
202-586-8100

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

From: Buckner, Eryn A SSgt USAF PACAF 374 OSS/OSW (b)(6)
Sent: Wednesday, March 23, 2011 6:06 PM
To: Reese, Marc E Col USAF PACAF 13 AF Det 1/CC; 374 OSS Weather
Cc: Jordan, Jordana D TSgt USAF PACAF 13 AF DET 1/ADLE; Anderson, James M A1C USAF PACAF 13 AF Det 1/ADLE; Nixon, Gerald T SSgt USAF PACAF 13 AF DET 1/ADLE; King, Steven L Amn USAF PACAF 13 AF DET 1/ADLE; Young, Termaine R SSgt USAF PACAF 13 AF Det 1/ADLE; Jenkins, Brandon M A1C USAF PACAF 374 LRS/LGRA; USAFJ/Director; USAFJ/Workflow; Mays, Galen W Col USAF PACAF 13 AF/RE; Addington, Dale R Col USAF PACAF 613 AOC/COD; Henson, John D LtCol USAF PACAF 13 AF/A5X; Jenkins, Dayon A A1C USAF PACAF 13 AF Det 1/ADLE; DTRA Operations Center; narac@llnl.gov; NITOPS; narac-web-spt@aquinas.llnl.gov
Subject: Fukushima Power Plant winds 0700L

Alcon,

Fukushima Dai-ichi Power Station winds:

Time: 0700L/2200Z

Direction from: 330

Blowing towards: 150

RRR/84

Speed: 13 knots

V/R,

SSgt Buckner

//SIGNED//

ERYN A BUCKNER, SSgt, USAF

Weather Forecaster

374th Operations Support Squadron

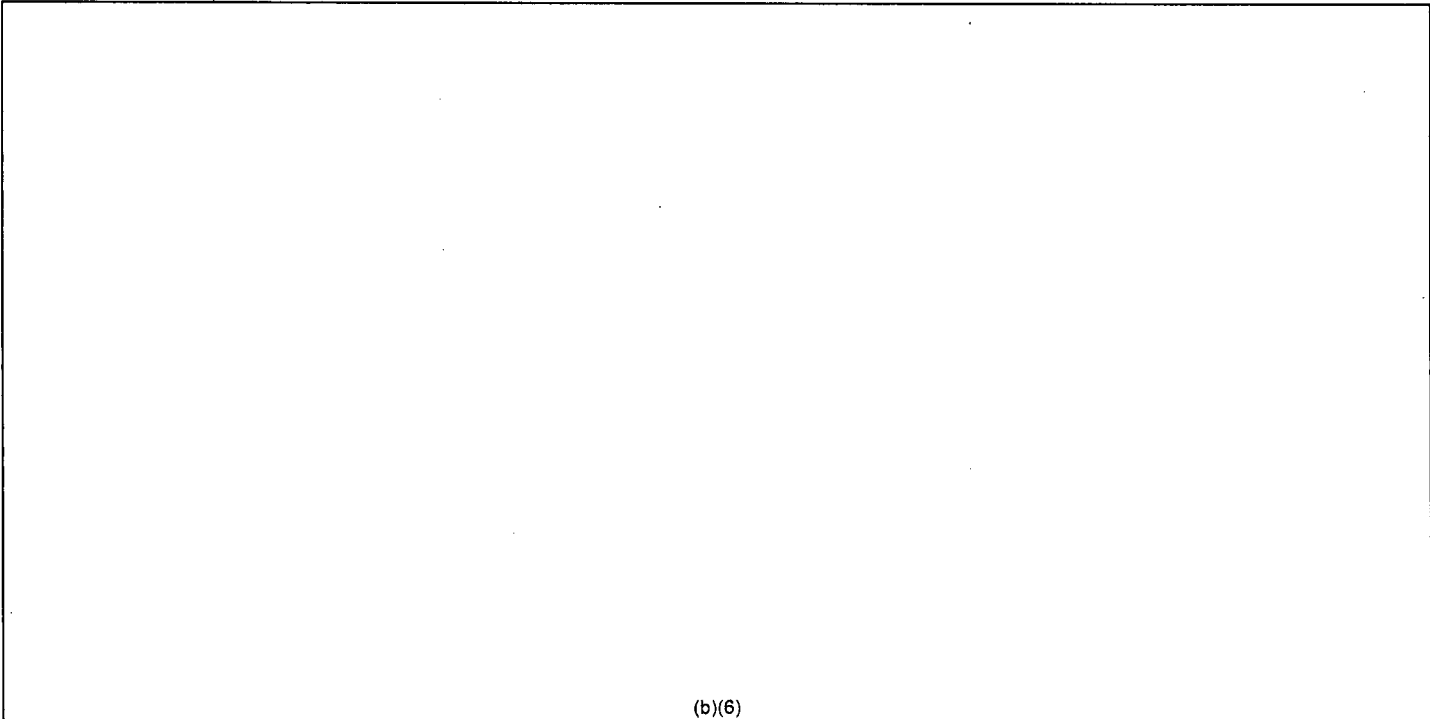
Yokota Air Base, Japan

DSN: 315-225-7213

From: Hoc, PMT12
Sent: Wednesday, April 06, 2011 8:58 AM
To: PMT02 Hoc; PMT11 Hoc
Subject: FW: Radiation data by MEXT
Attachments: (Japanese)20110406_25.pdf; (Japanese)20110406_26..pdf

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

From: eda@mext.go.jp [mailto:eda@mext.go.jp]
Sent: Wednesday, April 06, 2011 8:52 AM



(b)(6)

Subject: Radiation data by MEXT

Dear Sir,

Please see attached the document.

Sincerely yours,

Kei.EDA

EOC, Ministry of Education, Culture, Sports, Science & Technology (MEXT), Japan

RRR/ 85

福島第一原子力発電所周辺の海域モニタリング結果

平成23年4月6日
文部科学省

1. 海水中の放射能濃度

測定試料採取点 ^{※1}	採水日時	表層の放射能濃度 (Bq/L)		下層 ^{※2} の放射能濃度 (Bq/L)	
		I-131	Cs-137	I-131	Cs-137
【A】	4月5日7時48分	不検出	不検出	不検出	不検出
【1】	4月5日9時48分	不検出	不検出	不検出	不検出
【3】	4月5日11時00分	10.9	不検出	9.63	不検出
【5】	4月5日12時42分	66.1	38.5	15.0	不検出
【7】	4月5日14時00分	不検出	不検出	11.8	11.3
【9】	4月5日15時18分	不検出	不検出	不検出	不検出

※1 サンプルングは、6地点の抽出調査を行った。【 】内の数値は、2ページ目の測点番号に対応する。

※2 下層における採水深については、2ページ目の表に掲載する。

2. 海上の空間線量率

場所 ^{※1}	測定日時	数値 (マイクロシーベルト毎時) ^{※2}	天候
【A】	4月5日7時48分	0.08	降雨無し
【1】	4月5日9時48分	0.07	降雨無し
【3】	4月5日11時00分	0.07	降雨無し
【5】	4月5日12時42分	0.07	降雨無し
【7】	4月5日14時00分	0.07	降雨無し
【9】	4月5日15時18分	0.07	降雨無し

※1 サンプルングは、6地点の抽出調査を行った。【 】内の数値は、2ページ目の測点番号に対応する。

※2 検出器型式 CsI(Tl)シンチレーション検出器(PDR-101、アロカ株式会社)

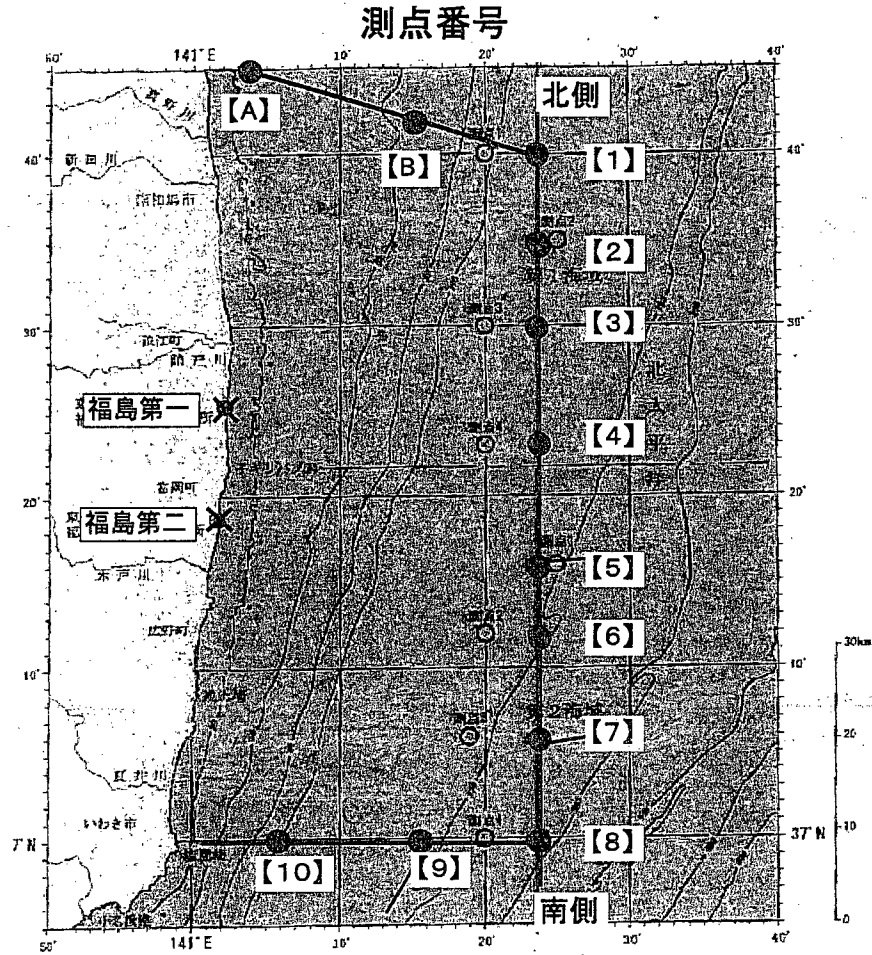
3. 海上の塵中の放射能濃度

測定試料採取点 ^{※1}	採取日時	放射能濃度 (Bq/m ³)	
		I-131	Cs-137
【A】	4月5日7時48分	不検出	不検出
【1】	4月5日9時48分	不検出	不検出
【3】	4月5日11時00分	不検出	不検出
【5】	4月5日12時42分	4.03	1.08
【7】	4月5日14時00分	不検出	不検出
【9】	4月5日15時18分	不検出	不検出

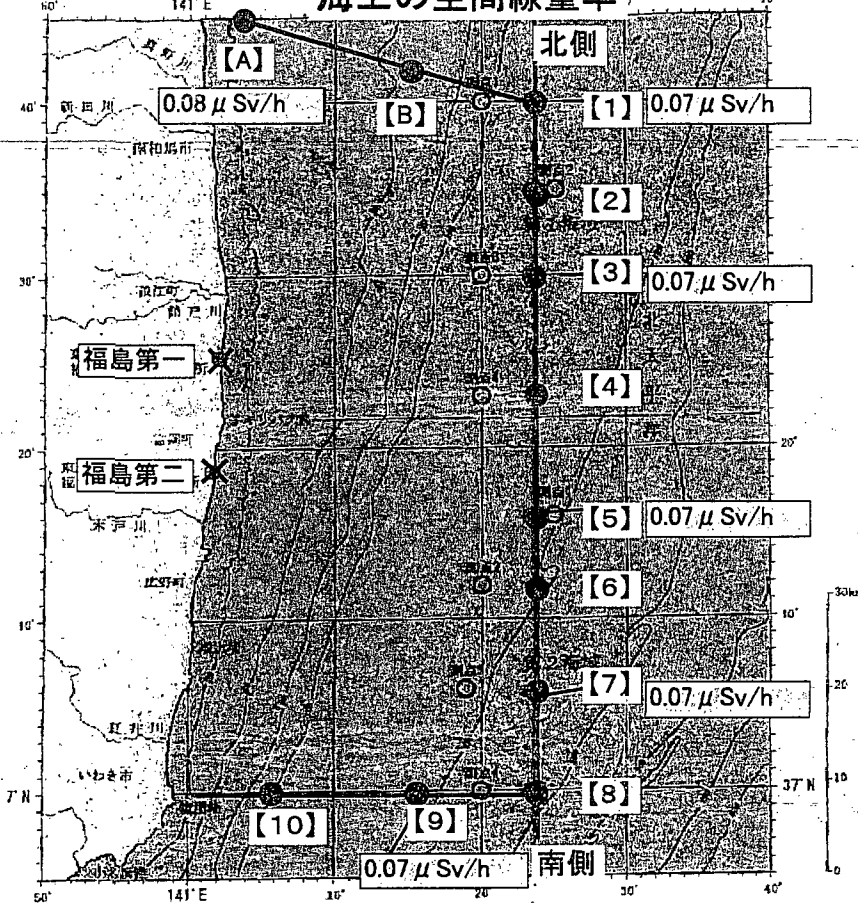
※1 サンプルングは、6地点の抽出調査を行った。【 】内の数値は、2ページ目の測点番号に対応する。

各測定点の位置は次のとおり

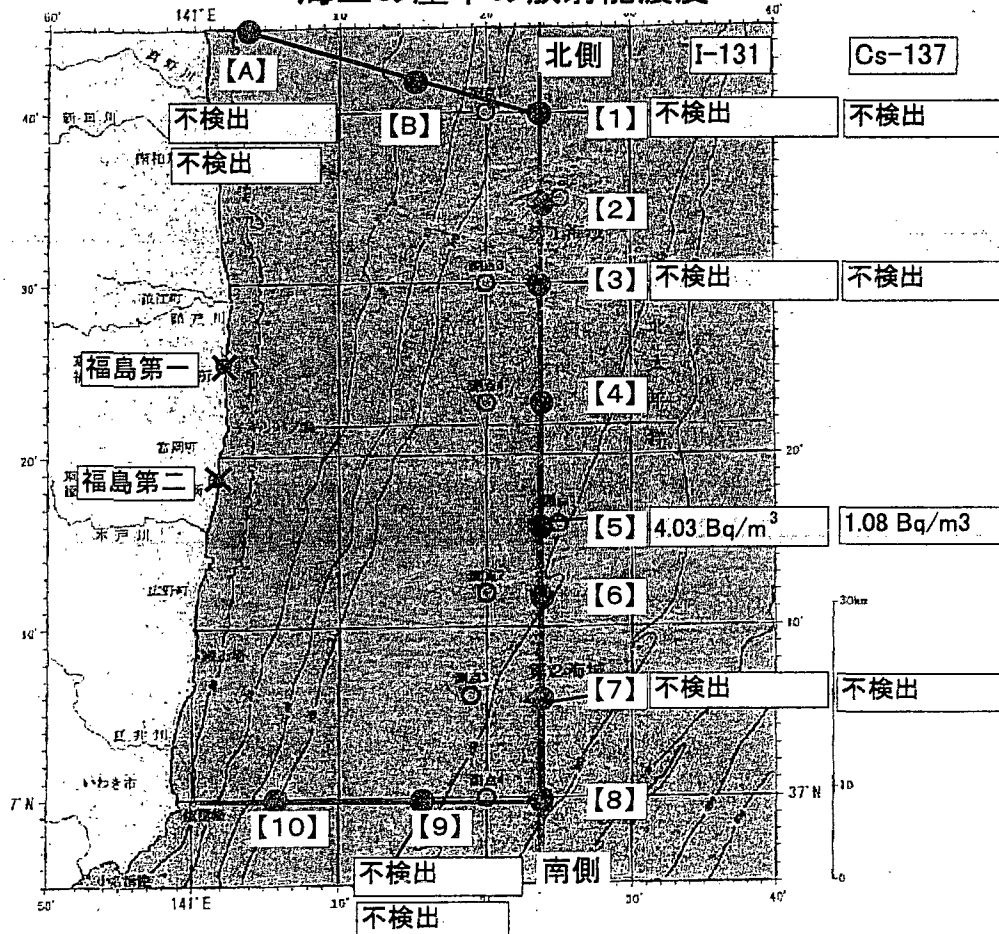
測点番号	緯度, 経度	下層の採水深
[A]	37° 44.9' N, 141° 5.1' E	21 m
[1]	37° 40.0' N, 141° 24.0' E	113 m
[3]	37° 30.0' N, 141° 24.0' E	121 m
[5]	37° 16.0' N, 141° 24.0' E	134 m
[7]	37° 06.0' N, 141° 24.0' E	160 m
[9]	37° 00.0' N, 141° 15.0' E	133 m



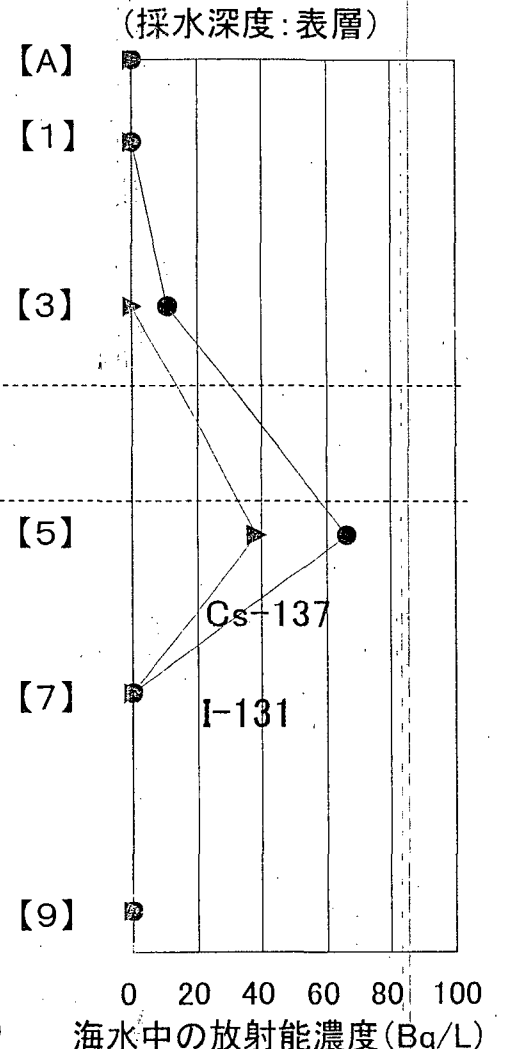
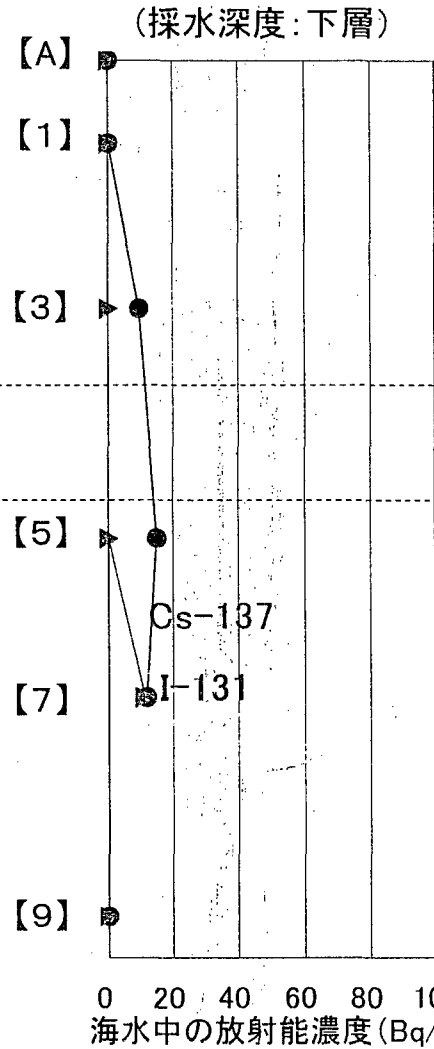
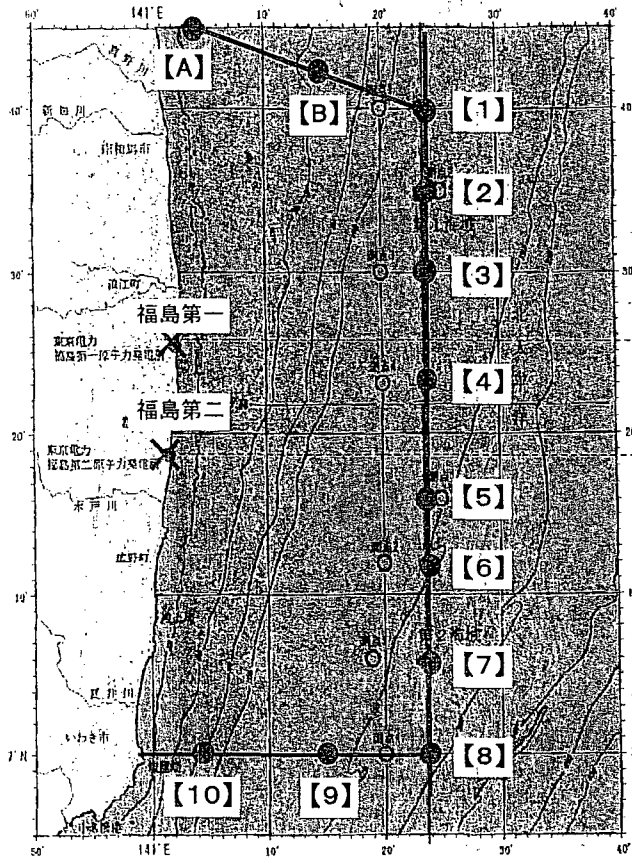
海上の空間線量率



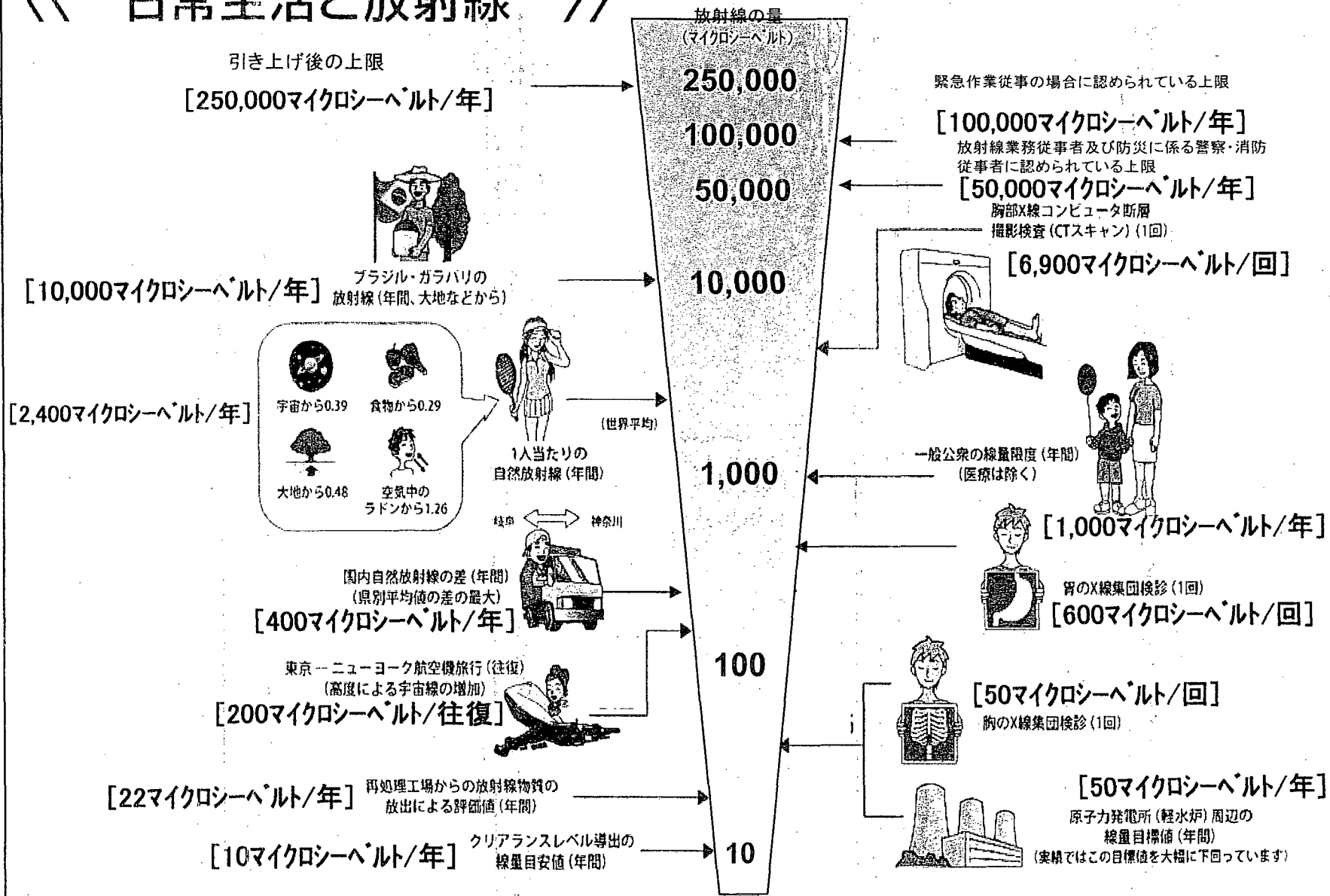
海上の塵中の放射能濃度



海域モニタリング結果(平成23年4月5日採水)



《 日常生活と放射線 》



※ Sv【シーベルト】=放射線の種類による生物効果の定数(※) × Gy【グレイ】 ※ X線、γ線では 1

From: OST02 HOC
Sent: Monday, April 04, 2011 8:57 AM
To: RST01 Hoc; PMT01 Hoc; PMT02 Hoc; PMT11 Hoc
Subject: FW: Radiation data by MEXT
Attachments: (English)20110404_20.pdf; (English)20110404_21.pdf; (English)20110404_22.pdf; (English)20110404_23.pdf; (English)20110404_24.pdf; (English)20110404_25.pdf; (English)20110404_26.pdf; (unofficial)(English)20110404_20with lat_long.pdf

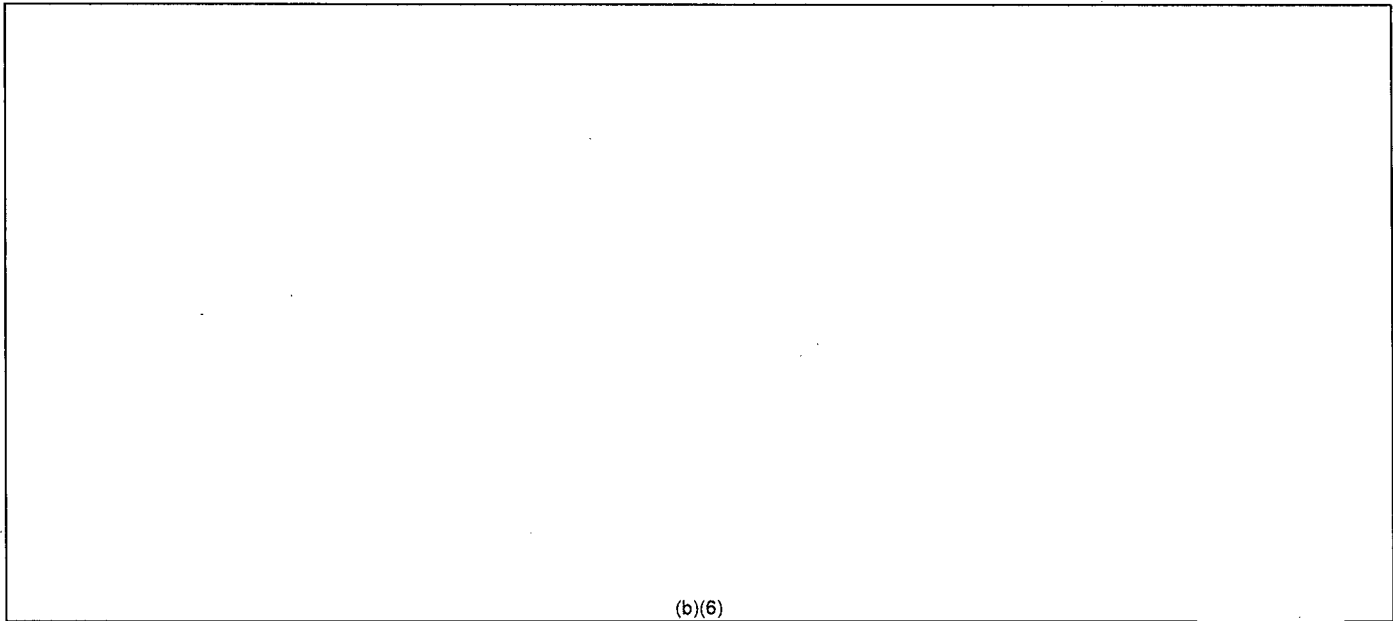
-----Original Message-----

From: HOO Hoc
Sent: Monday, April 04, 2011 8:54 AM
To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC
Subject: FW: Radiation data by MEXT

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

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

From: eda@mext.go.jp [mailto:eda@mext.go.jp]
Sent: Monday, April 04, 2011 8:53 AM



(b)(6)

RRR/86

(b)(6)

Subject: Radiation data by MEXT

Dear Sir,

Please see attached the document.

Sincerely yours,

Kei EDA

EOC, Ministry of Education, Culture, Sports, Science & Technology (MEXT), Japan

Monitoring data at Ibaraki prefecture

MEXT

H23.4.4 19:00

 μ Sv/h

Date and Time	JAEA nuclear science research institute (Tokai-village in Ibaraki-prefecture)	JAEA Nuclear fuel cycle engineering laboratory (Tokai-village in Ibaraki-prefecture)	Yayoi in Tokyo University (Tokai-village in Ibaraki-prefecture)
4/4			
0:00	1.30	0.74	1.01
1:00	1.30	0.74	1.12
2:00	1.29	0.74	1.10
3:00	1.30	0.74	1.02
4:00	1.29	0.73	1.10
5:00	1.29	0.73	1.04
6:00	1.28	0.73	1.11
7:00	1.28	0.73	1.01
8:00	1.28	0.73	0.98
9:00	1.27	0.72	1.12
10:00	1.27	0.72	1.14
11:00	1.27	0.72	1.07
12:00	1.27	0.72	1.00
13:00	1.27	0.72	0.99
14:00	1.27	0.72	1.09
15:00	1.26	0.72	1.09
16:00	1.26	0.72	1.11
17:00	1.26	0.71	1.00
18:00	1.26	0.72	

※The readings are measured once every hour from March 24th.

The readings of JAEA nuclear science research institute and JAEA Nuclear fuel cycle engineering laboratory are also put on their websites in below.

JAEA nuclear science research institute

<http://erms.jaea.go.jp/Chart.htm>

JAEA Nuclear fuel cycle engineering laboratory

http://www.jaea.go.jp/04/ztokai/kankyo/realtime/tbl_10mStPo01.html

Readings at Monitoring Post out of 20 Km Zone of Fukushima Dai-ichi NPP

As of 19:00 April 4, 2011
Ministry of Education, Culture, Sports, Science and
Technology (MEXT)

○ Monitoring Outputs by MEXT ***Boldface and underlined readings are new.**

- * 1 measured by Geiger-Müller counter
- * 2 measured by ionization chamber type survey meter
- * 3 measured by NaI scintillator detector
- * 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : $\mu\text{Sv/h}$)	Weather	Reading by
Reading Point 【1】 (About60KmNorthWest)	2011/4/4 8:40	0.9 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【2】 (About55KmNorthWest)	2011/4/4 9:16	3.5 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【3】 (About45KmNorthWest)	2011/4/4 10:00	3.1 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【4】 (About50KmNorthWest)	2011/4/4 9:29	1.5 *2	No Rain	MEXT
Reading Point 【5】 (About45KmNorth)	2011/4/4 10:47	0.9 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【6】 (About45KmNorth)	2011/4/4 11:13	1.2 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【7】 (About45KmNorth)	2011/4/4 11:28	1.2 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【11】 (About40KmNorthWest)	2011/4/4 9:48	1.6 *2	No Rain	MEXT
Reading Point 【15】 (About35KmWest)	2011/4/4 11:08	1.7 *2	No Rain	MEXT
Reading Point 【20】 (About45KmNorthWest)	2011/4/4 10:10	0.6 *2	No Rain	MEXT
Reading Point 【31】 (About30KmWestNorthWest)	2011/4/4 10:16	9.8 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【32】 (About30KmNorthWest)	2011/4/4 10:44	32.7 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【33】 (About30KmNorthWest)	2011/4/4 11:06	18.6 *2	No Rain	JAEA (Japan Atomic Energy Agency)

- * 1 measured by Geiger-Müller counter
- * 2 measured by ionization chamber type survey meter
- * 3 measured by NaI scintillator detector
- * 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : μ Sv / h)	Weather	Reading by
Reading Point 【34】 (About30KmNorthWest)	2011/4/4 12:48	6.5 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【36】 (About40KmNorthWest)	2011/4/4 9:48	5.2 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【37】 (About50KmNorthWest)	2011/4/4 9:51	4.2 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【38】 (About35KmSouth)	2011/4/4 12:11	1.0 *2	No Rain	MEXT
Reading Point 【39】 (About45KmNorth)	2011/4/4 10:23	1.3 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【41】 (About20KmWest)	2011/4/4 13:15	0.9 *2	No Rain	Electric power company
Reading Point 【41】 (About20KmWest)	2011/4/4 9:45	0.9 *2	No Rain	Electric power company
Reading Point 【42】 (About30KmWest)	2011/4/4 13:10	1.1 *2	No Rain	Electric power company
Reading Point 【42】 (About30KmWest)	2011/4/4 9:50	1.1 *2	No Rain	Electric power company
Reading Point 【43】 (About20KmSouthSouthWest)	2011/4/4 14:45	0.4 *2	No Rain	Electric power company
Reading Point 【43】 (About20KmSouthSouthWest)	2011/4/4 10:45	0.4 *2	No Rain	Electric power company
Reading Point 【44】 (About30KmSouth)	2011/4/4 13:00	1.0 *2	No Rain	Electric power company
Reading Point 【44】 (About30KmSouth)	2011/4/4 10:00	1.2 *2	No Rain	Electric power company
Reading Point 【45】 (About20KmSouth)	2011/4/4 13:42	1.7 *2	No Rain	Electric power company
Reading Point 【45】 (About20KmSouth)	2011/4/4 10:18	1.7 *2	No Rain	Electric power company
Reading Point 【46】 (About30KmNorthWest)	2011/4/4 14:00	5.7 *2	No Rain	Electric power company
Reading Point 【46】 (About30KmNorthWest)	2011/4/4 10:30	5.8 *2	No Rain	Electric power company
Reading Point 【51】 (About40KmSouthSouthWest)	2011/4/4 13:31	0.2 *3	No Rain	Fukushima

- * 1 measured by Geiger-Müller counter
- * 2 measured by ionization chamber type survey meter
- * 3 measured by NaI scintillator detector
- * 4 variation range of the measuring data in measuring time

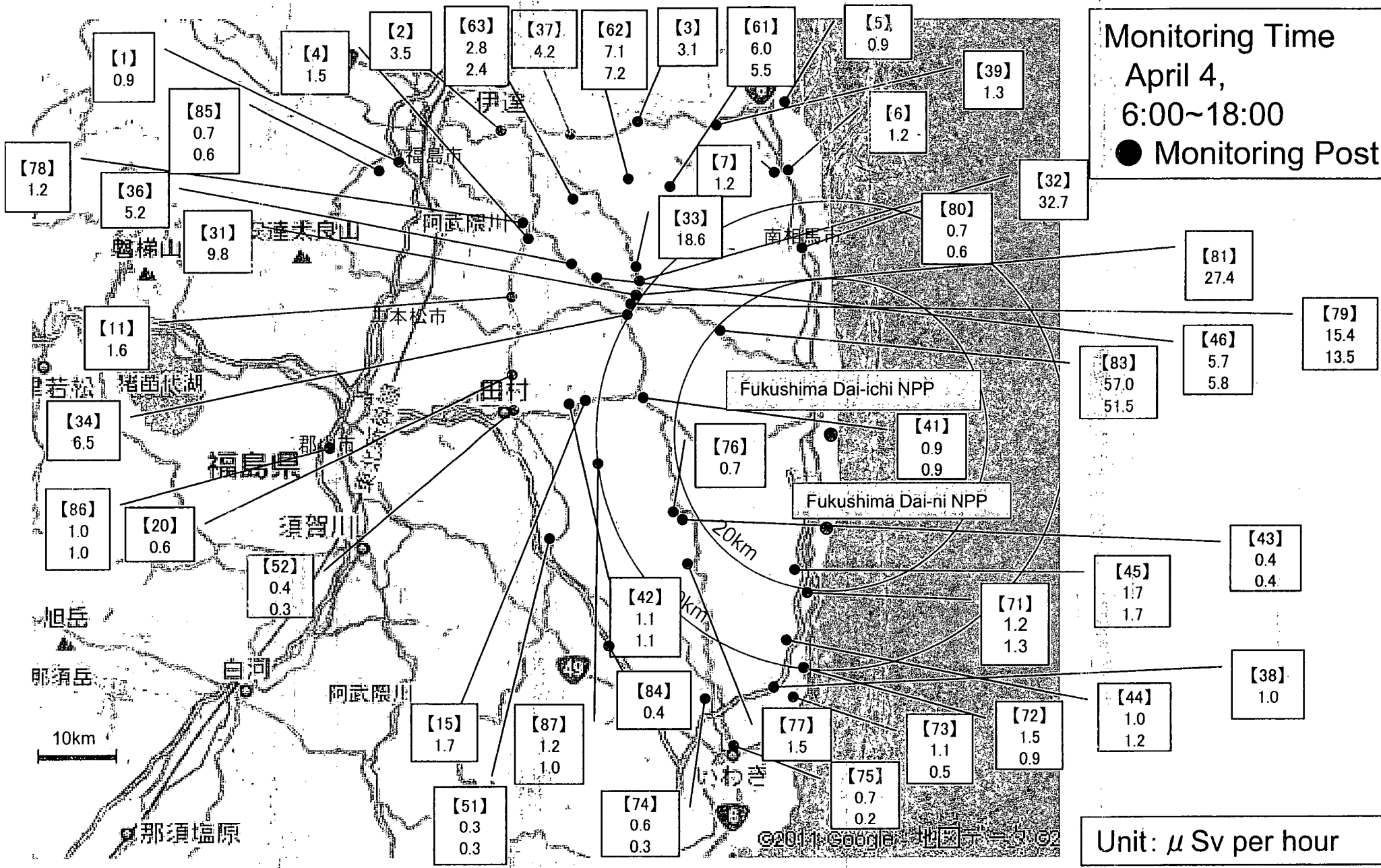
Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : μ Sv / h)	Weather	Reading by
Reading Point 【51】 (About40KmSouthSouthWest)	2011/4/4 10:36	0.3 * ³	No Rain	Fukushima
Reading Point 【52】 (About40KmWest)	2011/4/4 14:08	0.3 * ³	No Rain	Fukushima
Reading Point 【52】 (About40KmWest)	2011/4/4 11:18	0.3 * ³	No Rain	Fukushima
Reading Point 【61】 (About40KmNorthWest)	2011/4/4 14:19	6.1 * ³	No Rain	Fukushima
Reading Point 【61】 (About40KmNorthWest)	2011/4/4 12:26	6.1 * ³	No Rain	Fukushima
Reading Point 【62】 (About40KmNorthWest)	2011/4/4 14:16	7.1 * ³	No Rain	Fukushima
Reading Point 【62】 (About40KmNorthWest)	2011/4/4 11:34	7.2 * ³	No Rain	Fukushima
Reading Point 【63】 (About45KmNorthWest)	2011/4/4 14:38	2.8 * ³	No Rain	Fukushima
Reading Point 【63】 (About45KmNorthWest)	2011/4/4 10:36	2.4 * ³	No Rain	Fukushima
Reading Point 【71】 (About25KmSouth)	2011/4/4 13:11	1.2 * ²	No Rain	MEXT
Reading Point 【71】 (About25KmSouth)	2011/4/4 8:19	1.3 * ²	No Rain	Police (counter NBC operations unit)
Reading Point 【72】 (About30KmSouth)	2011/4/4 12:48	1.5 * ²	No Rain	MEXT
Reading Point 【72】 (About30KmSouth)	2011/4/4 8:54	0.9 * ²	No Rain	Police (counter NBC operations unit)
Reading Point 【73】 (About35KmSouth)	2011/4/4 12:28	1.1 * ²	No Rain	MEXT
Reading Point 【73】 (About35KmSouth)	2011/4/4 9:11	0.5 * ²	No Rain	Police (counter NBC operations unit)
Reading Point 【74】 (About35KmSouth)	2011/4/4 11:24	0.6 * ²	No Rain	MEXT
Reading Point 【74】 (About35KmSouth)	2011/4/4 7:32	0.3 * ²	No Rain	Police (counter NBC operations unit)
Reading Point 【75】 (About45KmSouth)	2011/4/4 10:48	0.7 * ²	No Rain	MEXT
Reading Point 【75】 (About45KmSouth)	2011/4/4 7:05	0.2 * ²	No Rain	Police (counter NBC operations unit)
Reading Point 【76】 (About20KmSouthSouthWest)	2011/4/4 12:11	0.7 * ²	No Rain	Police (counter NBC operations unit)

- * 1 measured by Geiger-Müller counter
- * 2 measured by ionization chamber type survey meter
- * 3 measured by NaI scintillator detector
- * 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : μ Sv / h)	Weather	Reading by
Reading Point 【77】 (About25KmSouthSouthWest)	2011/4/4 11:55	1.5 *2	No Rain	Police (counter NBC operations unit)
Reading Point 【78】 (About45KmNorthWest)	2011/4/4 7:52	1.2 *2	No Rain	Police (counter NBC operations unit)
Reading Point 【79】 (About30KmNorthWest)	2011/4/4 11:44	15.4 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【79】 (About30KmNorthWest)	2011/4/4 10:27	13.5 *2	No Rain	Police (counter NBC operations unit)
Reading Point 【80】 (About25KmNorth)	2011/4/4 13:02	0.7 *2	No Rain	Police (counter NBC operations unit)
Reading Point 【80】 (About25KmNorth)	2011/4/4 11:57	0.6 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【81】 (About30KmNorthWest)	2011/4/4 8:55	27.4 *2	No Rain	Police (counter NBC operations unit)
Reading Point 【83】 (About20KmNorthWest)	2011/4/4 12:29	57.0 *2	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【83】 (About20KmNorthWest)	2011/4/4 10:42	51.5 *2	No Rain	Police (counter NBC operations unit)
Reading Point 【84】 (About40KmSouthSouthWest)	2011/4/4 10:17	0.4 *2	No Rain	MEXT
<u>Reading Point 【85】 (About60KmNorthWest)</u>	<u>2011/4/4 14:00</u>	<u>0.7 *2</u>	<u>No Rain</u>	<u>Ministry of Defense</u>
Reading Point 【85】 (About60KmNorthWest)	2011/4/4 6:00	0.6 *2	No Rain	Ministry of Defense
<u>Reading Point 【86】 (About55KmWest)</u>	<u>2011/4/4 14:00</u>	<u>1.0 *2</u>	<u>No Rain</u>	<u>Ministry of Defense</u>
Reading Point 【86】 (About55KmWest)	2011/4/4 6:00	1.0 *2	No Rain	Ministry of Defense
<u>Reading Point 【87】 (About30KmWestSouthWest)</u>	<u>2011/4/4 14:00</u>	<u>1.2 *2</u>	<u>No Rain</u>	<u>Ministry of Defense</u>
Reading Point 【87】 (About30KmWestSouthWest)	2011/4/4 6:00	1.0 *2	No Rain	Ministry of Defense

Readings at Monitoring Post out of Fukushima Dai-ichi NPP

Monitoring Time
 April 4,
 6:00~18:00
 ● Monitoring Post



Unit: μSv per hour

Readings of Sea Area Monitoring at Post Out of Fukushima Dai-ichi NPP

April 4, 2011
 Ministry of Education, Culture,
 Sports, Science and Technology
 (MEXT)

1. Radioactivity Concentration Undersea

Sampling Point※1	Sampling Time and Date	Radioactivity Concentration (outer layer)(Bq/L)		Radioactivity Concentration (lower layer)(Bq/L)※2	
		I-131	Cs-137	I-131	Cs-137
【2】	2011/4/3 8:09	5.96	Not Detected	1.59	Not Detected
【4】	2011/4/3 9:40	11.6	Not Detected	2.96	1.16
【6】	2011/4/3 11:04	18.3	10.70	Not Detected	1.68
【8】	2011/4/3 12:53	5.55	1.16	1.98	3.40
【10】	2011/4/3 14:35	37.5	4.75	Not Detected	Not Detected

※1 Seawater is collected at 5 points below (p2).

※2 Sampling depth in lower layer is written at the figure(p2).

2. Reading of Over the Sea

Sampling Point※1	Sampling Time and Date	Reading (μ Sv/h)※2	Weather
【2】	2011/4/3 8:09	0.08	No Rain
【4】	2011/4/3 9:40	0.08	No Rain
【6】	2011/4/3 11:04	0.08	No Rain
【8】	2011/4/3 12:53	0.08	No Rain
【10】	2011/4/3 14:35	0.07	No Rain

※1 Seawater is collected at 5 points below(p2).

※2 Type of detector : CsI(Tl) scintillation detector (PDR-101, ALOKA)

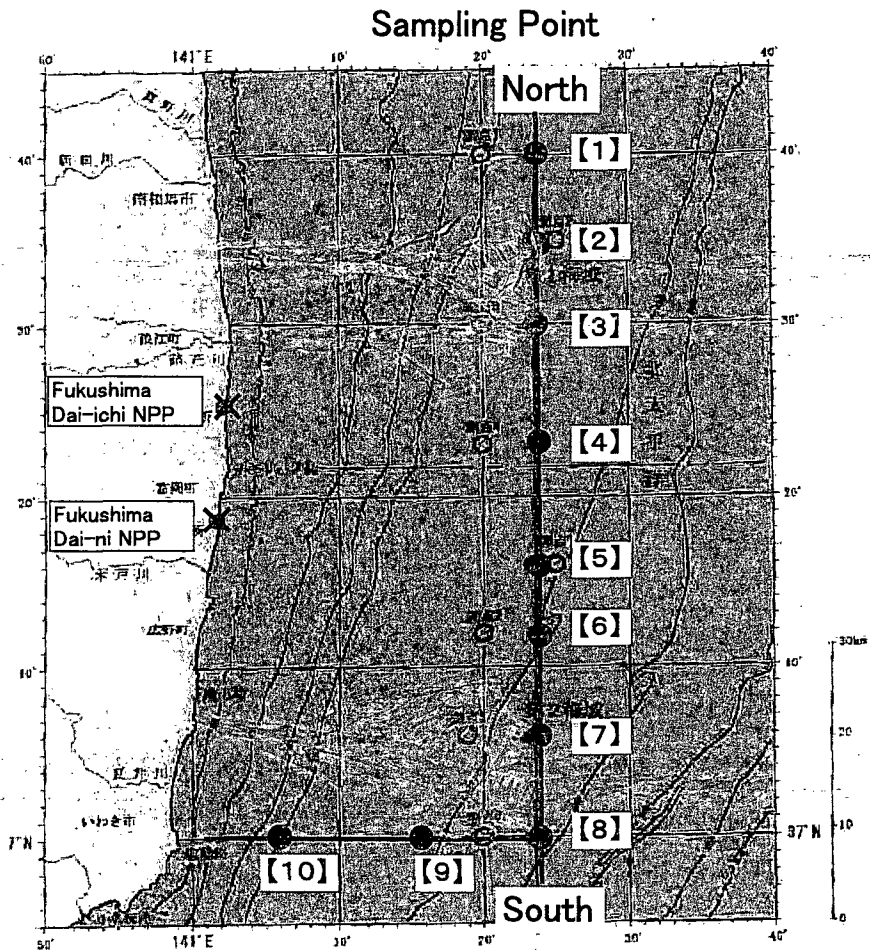
3. Reading of Radioactivity Concentration in dust over the Sea

Sampling Point※1	Sampling Time and Date	Radioactivity Concentration(Bq/m3)	
		I-131	Cs-137
【2】	2011/4/3 8:09	Not Detected	Not Detected
【4】	2011/4/3 9:40	Not Detected	Not Detected
【6】	2011/4/3 11:04	8.84	2.82
【8】	2011/4/3 12:53	5.09	1.73
【10】	2011/4/3 14:35	0.435	0.03

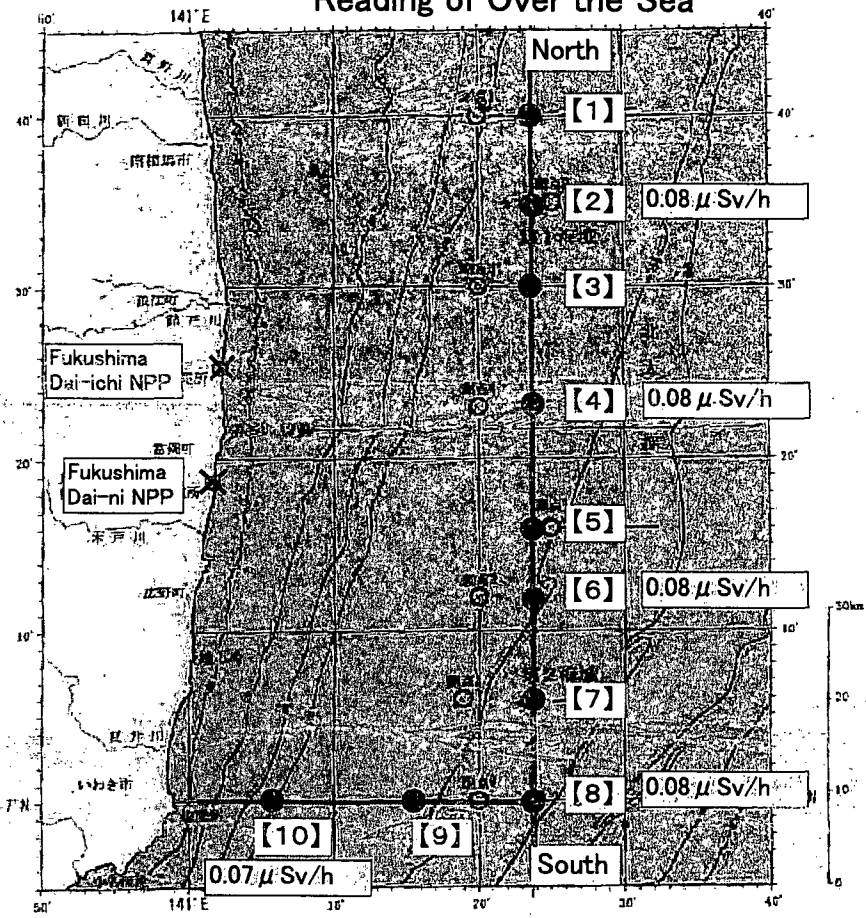
※1 Seawater is collected at 5 points below(p2).

Each sampling point is indicated below

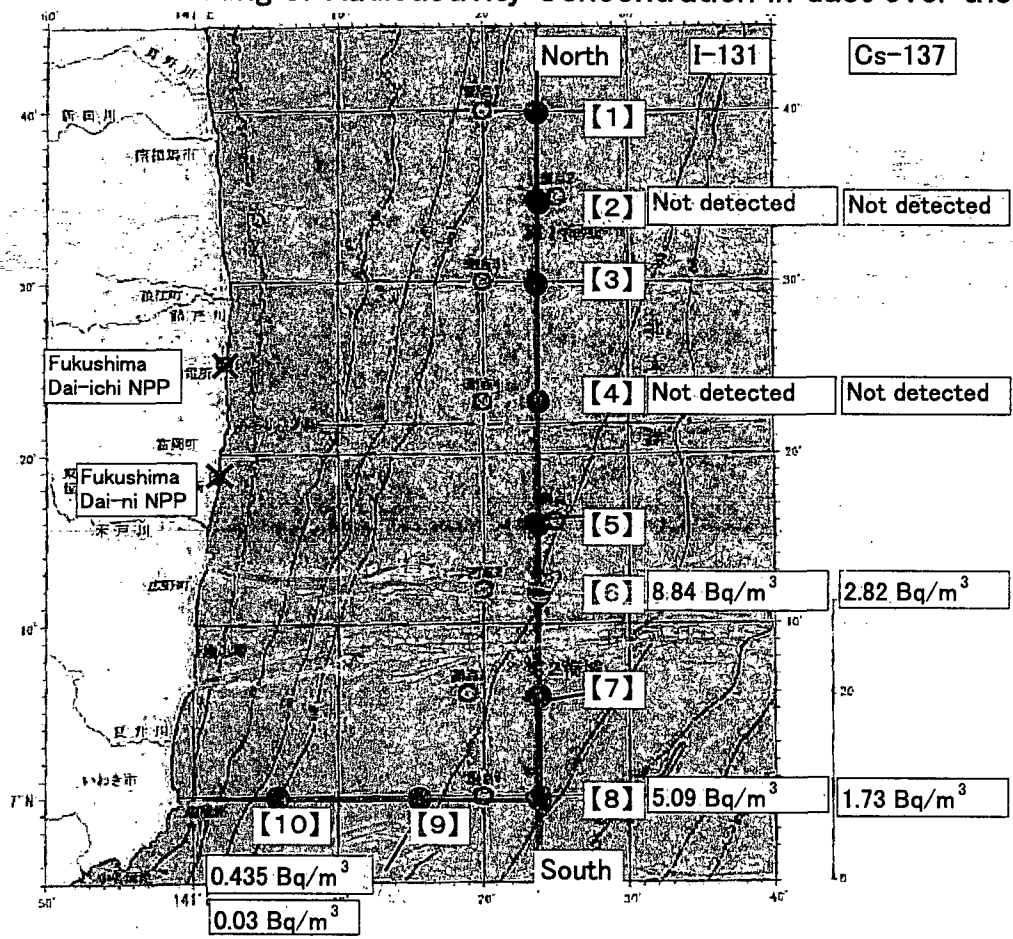
Sampling Point	Latitude, Longitude	Sampling depth in lower layer
[2]	37° 35' N, 141° 24' E	120 m
[4]	37° 23' N, 141° 24' E	127 m
[6]	37° 12' N, 141° 24' E	142 m
[8]	37° 00' N, 141° 24' E	172 m
[10]	37° 00' N, 141° 05' E	84 m



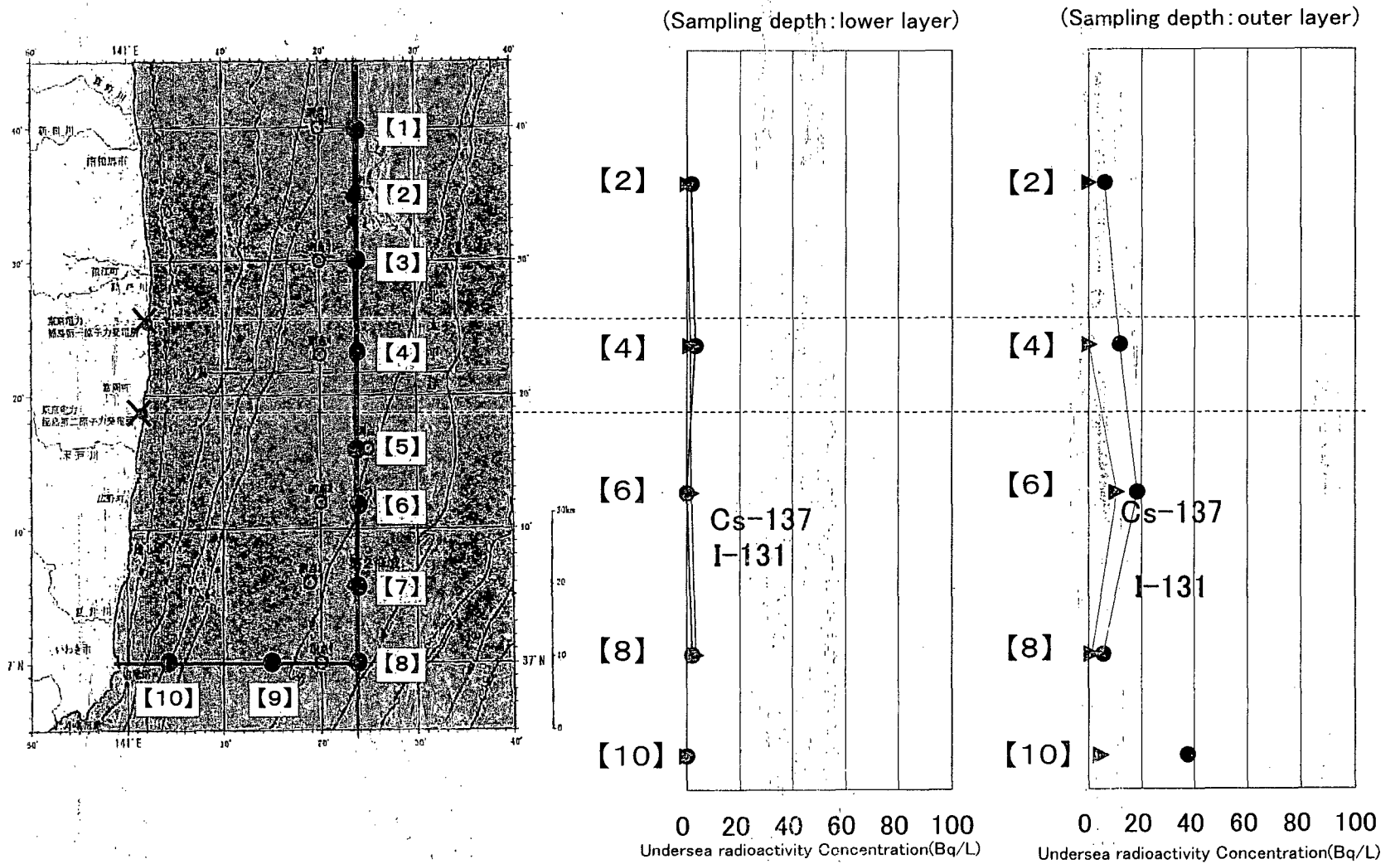
Reading of Over the Sea



Reading of Radioactivity Concentration in dust over the Sea



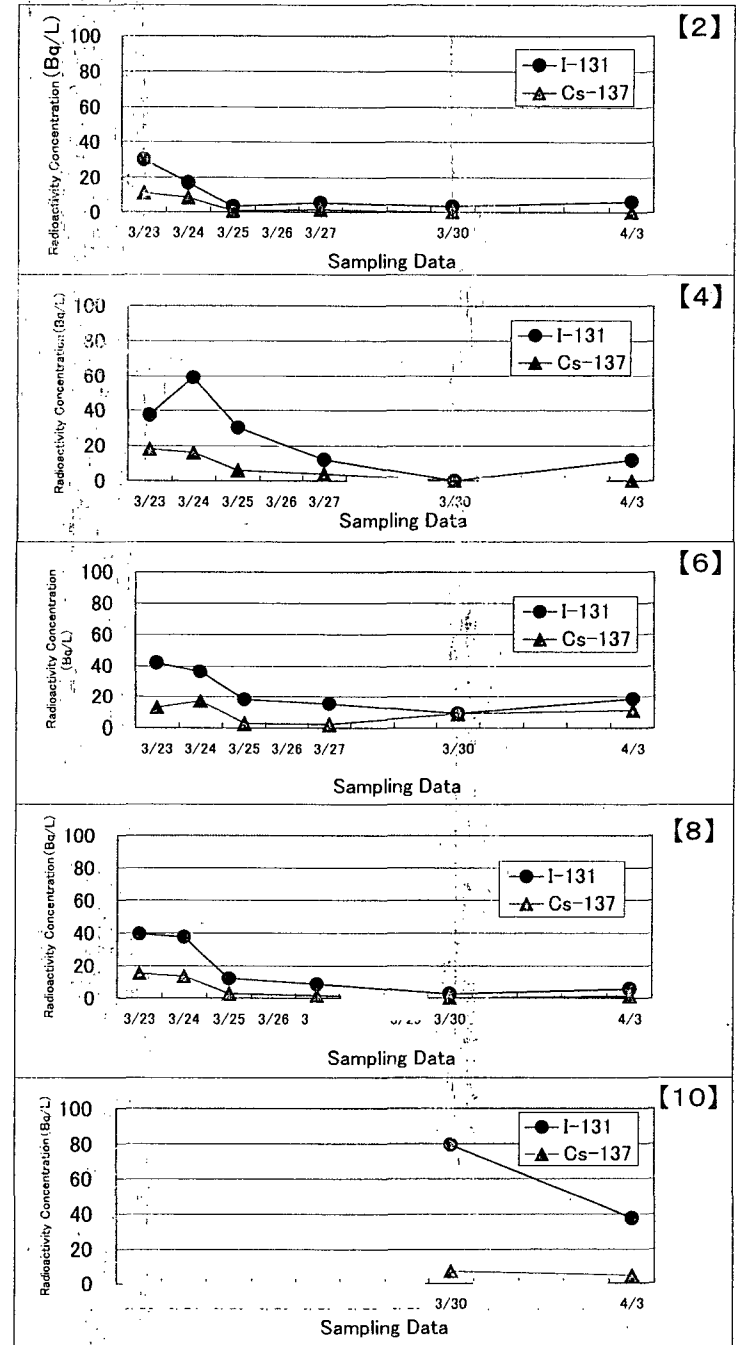
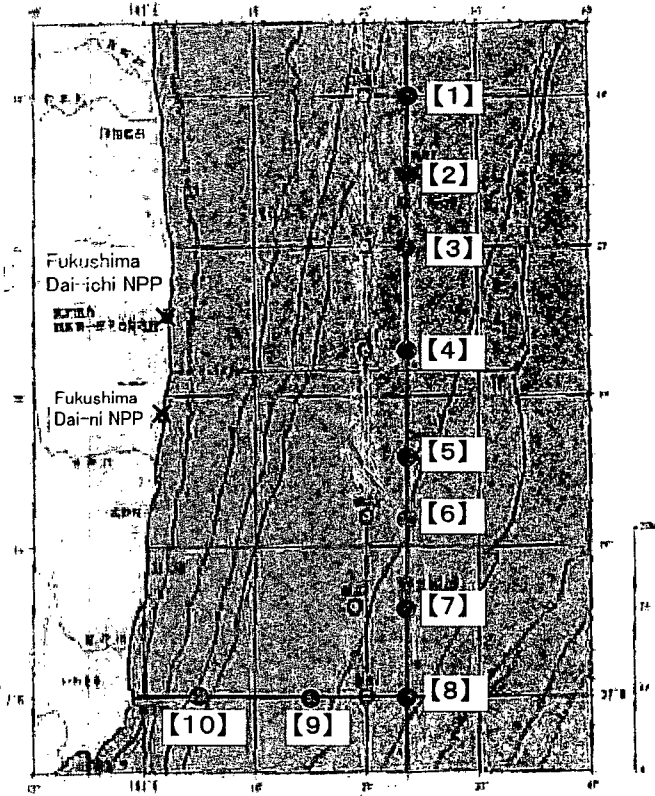
Readings of Sea Area Monitoring (April 3, 2011)



A/5

Readings of Sea Area Monitoring at Post Out of Fukushima Dai-ichi NPP
 Result of Radioactivity Concentration in the Sea (outer layer)

5/5



Note: "Not Detectable" is illustrated as 0Bq/L.

	Prefecture	Fallout		
		I-131	Cs-137	Remarks
1	Hokkaido(Sapporo)	Not Detectable	Not Detectable	
2	Aomori(Aomori)	Not Detectable	Not Detectable	
3	Iwate(Morioka)	Not Detectable	Not Detectable	
4	Miyagi	-	-	Not be measured because of the earthquake disaster damage
5	Akita(Akita)	Not Detectable	Not Detectable	
6	Yamagata(Yamagata)	-	-	On Setting up the equipment
7	Fukushima (Fukushima)	-	-	Measurements arrived, though it had delayed.
8	Ibaraki(Hitachinaka)	23	Not Detectable	
9	Tochigi(Utsunomiya)	75	46	
10	Gunma(Maebashi)	3.1	7.4	
11	Saitama(Saitama)	16	18	
12	Chiba(Ichihara)	22	23	
13	Tokyo(Shinjuku)	20	18	
14	Kanagawa(Chigasaki)	11	7.8	
15	Niigata(Niigata)	Not Detectable	Not Detectable	
16	Toyama(Imizu)	Not Detectable	Not Detectable	
17	Ishikawa(Kanazawa)	Not Detectable	Not Detectable	
18	Fukui(Fukui)	Not Detectable	Not Detectable	
19	Yamanashi(Kofu)	Not Detectable	Not Detectable	
20	Ngano(Nagano)	Not Detectable	Not Detectable	
21	Gifu(Kakamigahara)	Not Detectable	Not Detectable	
22	Shizuoka(Omaezaki)	Not Detectable	Not Detectable	
23	Aichi(Nagoya)	Not Detectable	Not Detectable	
24	Mie(Yokkaichi)	Not Detectable	Not Detectable	
25	Shiga(Otsu)	Not Detectable	Not Detectable	
26	Kyoto(Kyoto)	Not Detectable	Not Detectable	
27	Osaka(Osaka)	Not Detectable	Not Detectable	
28	Hyogo(Kobe)	Not Detectable	Not Detectable	
29	Nara(Nara)	Not Detectable	Not Detectable	
30	Wakayama(Wakayama)	Not Detectable	Not Detectable	
31	Tottori(Tohaku)	Not Detectable	Not Detectable	
32	Shimane(Matsue)	Not Detectable	Not Detectable	
33	Okayama(Okayama)	Not Detectable	Not Detectable	
34	Hiroshima(Hiroshima)	Not Detectable	Not Detectable	
35	Yamaguchi(Yamaguchi)	Not Detectable	Not Detectable	
36	Tokushima(Tokushima)	Not Detectable	Not Detectable	
37	Kagawa(Takamatsu)	Not Detectable	Not Detectable	
38	Ehime(Yawatahama)	Not Detectable	Not Detectable	
39	Kochi(Kochi)	Not Detectable	Not Detectable	
40	Fukuoka(Dazaifu)	Not Detectable	Not Detectable	
41	Saga(Saga)	Not Detectable	Not Detectable	
42	Nagasaki(Ohmura)	Not Detectable	Not Detectable	
43	Kumamoto(Uto)	Not Detectable	Not Detectable	
44	Oita(Oita)	Not Detectable	Not Detectable	
45	Miyazaki(Miyazaki)	Not Detectable	Not Detectable	
46	Kagoshima(Kagoshima)	Not Detectable	Not Detectable	
47	Okinawa(Nanjo)	Not Detectable	Not Detectable	

*The table was made by MEXT, based on the reports from prefectures

Readings of the radiation rate with the cooperation of universities

Upper column: Reading of the integrated dose(24h)
 Lower column: the reference value which was calculated
 as the number per one hour

Prefecture	Monitoring Point	City	4/3/~4/4
Hokkaido	1	Muroran City	1 μ Sv (0.04 μ Sv/h)
	2	Obihiro City	1 μ Sv (0.04 μ Sv/h)
	3	Asahikawa City	2 μ Sv (0.08 μ Sv/h)
	4	Kitami City	1 μ Sv (0.04 μ Sv/h)
	5	Kushiro City	1 μ Sv (0.04 μ Sv/h)
	6	Hakodate City	2 μ Sv (0.08 μ Sv/h)
Aomori	7	Hirosaki City	1 μ Sv (0.04 μ Sv/h)
	8	Hachinohe City	1 μ Sv (0.04 μ Sv/h)
Miyagi	9	Sendai City	2 μ Sv (0.08 μ Sv/h)
Yamagata	10	Yonezawa City	2 μ Sv (0.08 μ Sv/h)
	11	Tsuruoka City	2 μ Sv (0.08 μ Sv/h)
Fukushima	12	Fukushima City	12 μ Sv (0.50 μ Sv/h)
Ibaraki	13	Tsukuba City	4 μ Sv (0.2 μ Sv/h)
Tochigi	14	Oyama City	3 μ Sv (0.1 μ Sv/h)
Gunma	15	Kiryu City	3 μ Sv (0.1 μ Sv/h)
Chiba	16	Chiba City	4 μ Sv (0.2 μ Sv/h)
	17	Kisarazu City	5 μ Sv (0.2 μ Sv/h)
Tokyo	18	Bunkyo Ward	3 μ Sv (0.1 μ Sv/h)
	19	Fuchu City	3 μ Sv (0.1 μ Sv/h)
	20	Meguro Ward	2 μ Sv (0.08 μ Sv/h)
	21	Minato Ward	3 μ Sv (0.1 μ Sv/h)
	22	Hachioji City	2 μ Sv (0.08 μ Sv/h)
Kanagawa	23	Yokohama City	2 μ Sv (0.08 μ Sv/h)
Niigata	24	Nagaoka City	2 μ Sv (0.08 μ Sv/h)
Nagano	25	Matsumoto City	2 μ Sv (0.08 μ Sv/h)
	26	Ueda City	2 μ Sv (0.08 μ Sv/h)

* We have measured the integrated dose(24h) from around 2PM to the next

* Readings of lower column are the reference value because of the lower limit of

the pocket dosimeter (1 μ Sv)

Readings at Monitoring Post out of 20 Km Zone of Fukushima Dai-ichi NPP

As of 19:00 April 4, 2011
Ministry of Education, Culture, Sports, Science and
Technology (MEXT)

○Monitoring Outputs by MEXT *Boldface and underlined readings are new.

- * 1 measured by Geiger-Müller counter
- * 2 measured by ionization chamber type survey meter
- * 3 measured by NaI scintillator detector
- * 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : μ Sv / h)	測定位置			測定位置 の備考	Weather	Reading by
			N:	E:	Reading			
Reading Point 【1】 (About60KmNorthWest)	2011/4/4 8:40	0.9 *2	N: 37° 44'	E: 140° 28'	12.6 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【2】 (About55KmNorthWest)	2011/4/4 9:16	3.5 *2	N: 37° 41'	E: 140° 33'	12.7 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【3】 (About45KmNorthWest)	2011/4/4 10:00	3.1 *2	N: 37° 45'	E: 140° 44'	40.5 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【4】 (About50KmNorthWest)	2011/4/4 9:29	1.5 *2	N: 37° 39'	E: 140° 35'	30.0 "	20110330 確認	No Rain	MEXT
Reading Point 【5】 (About45KmNorth)	2011/4/4 10:47	0.9 *2	N: 37° 47'	E: 140° 55'	17.4 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【6】 (About45KmNorth)	2011/4/4 11:13	1.2 *2	N: 37° 42'	E: 140° 58'	09.5 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【7】 (About45KmNorth)	2011/4/4 11:28	1.2 *2	N: 37° 41'	E: 140° 57'	49.0 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【11】 (About40KmNorthWest)	2011/4/4 9:48	1.6 *2	N: 37° 34'	E: 140° 34'	00.0 "	20110330 確認	No Rain	MEXT
Reading Point 【15】 (About35KmWest)	2011/4/4 11:08	1.7 *2	N: 37° 26'	E: 140° 40'	54.0 "	20110330 確認	No Rain	MEXT
Reading Point 【20】 (About45KmNorthWest)	2011/4/4 10:10	0.6 *2	N: 37° 29'	E: 140° 34'	24.2 "	20110330 確認	No Rain	MEXT
Reading Point 【31】 (About30KmWestNorthWest)	2011/4/4 10:16	9.8 *2	N: 37° 33'	E: 140° 44'	45.0 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【32】 (About30KmNorthWest)	2011/4/4 10:44	32.7 *2	N: 37° 35'	E: 140° 45'	42.0 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【33】 (About30KmNorthWest)	2011/4/4 11:06	18.6 *2	N: 37° 36'	E: 140° 45'	34.6 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【34】 (About30KmNorthWest)	2011/4/4 12:48	6.5 *2	N: 37° 33'	E: 140° 44'	03.2 "	20110330 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【36】 (About40KmNorthWest)	2011/4/4 9:48	5.2 *2	N: 37° 36'	E: 140° 37'	20.6 "	20110331 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【37】 (About50KmNorthWest)	2011/4/4 9:51	4.2 *2	N: 37° 45'	E: 140° 41'	06.7 "	20110402 確認	No Rain	JAEA (Japan Atomic Energy Agency)

- * 1 measured by Geiger-Müller counter
- * 2 measured by ionization chamber type survey meter
- * 3 measured by NaI scintillator detector
- * 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : $\mu\text{Sv} / \text{h}$)	測定位置	測定位置 の備考	Weather	Reading by
Reading Point [38] (About35KmSouth)	2011/4/4 12:11	1.0 ^{*2}	N: 37° 07' 18.4" E: 140° 57' 03.8"	20110401 確認	No Rain	MEXT
Reading Point [39] (About45KmNorth)	2011/4/4 10:23	1.3 ^{*2}	N: 37° 45' 52.7" E: 140° 51' 47.1"	20110402 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point [41] (About20KmWest)	2011/4/4 13:15	0.9 ^{*2}			No Rain	Electric power company
Reading Point [41] (About20KmWest)	2011/4/4 9:45	0.9 ^{*2}			No Rain	Electric power company
Reading Point [42] (About30KmWest)	2011/4/4 13:10	1.1 ^{*2}			No Rain	Electric power company
Reading Point [42] (About30KmWest)	2011/4/4 9:50	1.1 ^{*2}			No Rain	Electric power company
Reading Point [43] (About20KmSouthSouthWest)	2011/4/4 14:45	0.4 ^{*2}			No Rain	Electric power company
Reading Point [43] (About20KmSouthSouthWest)	2011/4/4 10:45	0.4 ^{*2}			No Rain	Electric power company
Reading Point [44] (About30KmSouth)	2011/4/4 13:00	1.0 ^{*2}			No Rain	Electric power company
Reading Point [44] (About30KmSouth)	2011/4/4 10:00	1.2 ^{*2}			No Rain	Electric power company
Reading Point [45] (About20KmSouth)	2011/4/4 13:42	1.7 ^{*2}			No Rain	Electric power company
Reading Point [45] (About20KmSouth)	2011/4/4 10:18	1.7 ^{*2}			No Rain	Electric power company
Reading Point [46] (About30KmNorthWest)	2011/4/4 14:00	5.7 ^{*2}			No Rain	Electric power company
Reading Point [46] (About30KmNorthWest)	2011/4/4 10:30	5.8 ^{*2}			No Rain	Electric power company
Reading Point [51] (About40KmSouthSouthWest)	2011/4/4 13:31	0.2 ^{*3}			No Rain	Fukushima
Reading Point [51] (About40KmSouthSouthWest)	2011/4/4 10:36	0.3 ^{*3}			No Rain	Fukushima
Reading Point [52] (About40KmWest)	2011/4/4 14:08	0.3 ^{*3}			No Rain	Fukushima
Reading Point [52] (About40KmWest)	2011/4/4 11:18	0.3 ^{*3}			No Rain	Fukushima
Reading Point [61] (About40KmNorthWest)	2011/4/4 14:19	6.1 ^{*3}			No Rain	Fukushima
Reading Point [61] (About40KmNorthWest)	2011/4/4 12:26	6.1 ^{*3}			No Rain	Fukushima
Reading Point [62] (About40KmNorthWest)	2011/4/4 14:16	7.1 ^{*3}			No Rain	Fukushima

- * 1 measured by Geiger-Müller counter
- * 2 measured by ionization chamber type survey meter
- * 3 measured by NaI scintillator detector
- * 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : $\mu\text{Sv} / \text{h}$)	測定位置	測定位置 の備考	Weather	Reading by
Reading Point 【62】 (About40KmNorthWest)	2011/4/4 11:34	7.2 * ³			No Rain	Fukushima
Reading Point 【63】 (About45KmNorthWest)	2011/4/4 14:38	2.8 * ³			No Rain	Fukushima
Reading Point 【63】 (About45KmNorthWest)	2011/4/4 10:36	2.4 * ³			No Rain	Fukushima
Reading Point 【71】 (About25KmSouth)	2011/4/4 13:11	1.2 * ²	N: 37° 12' 32.4"	20110323 確認	No Rain	MEXT
Reading Point 【71】 (About25KmSouth)	2011/4/4 8:19	1.3 * ²	E: 140° 57' 08.2"	20110323 確認	No Rain	Police (counter NBC operations unit)
Reading Point 【72】 (About30KmSouth)	2011/4/4 12:48	1.5 * ²			No Rain	MEXT
Reading Point 【72】 (About30KmSouth)	2011/4/4 8:54	0.9 * ²			No Rain	Police (counter NBC operations unit)
Reading Point 【73】 (About35KmSouth)	2011/4/4 12:28	1.1 * ²			No Rain	MEXT
Reading Point 【73】 (About35KmSouth)	2011/4/4 9:11	0.5 * ²			No Rain	Police (counter NBC operations unit)
Reading Point 【74】 (About35KmSouth)	2011/4/4 11:24	0.6 * ²			No Rain	MEXT
Reading Point 【74】 (About35KmSouth)	2011/4/4 7:32	0.3 * ²			No Rain	Police (counter NBC operations unit)
Reading Point 【75】 (About45KmSouth)	2011/4/4 10:48	0.7 * ²			No Rain	MEXT
Reading Point 【75】 (About45KmSouth)	2011/4/4 7:05	0.2 * ²			No Rain	Police (counter NBC operations unit)
Reading Point 【76】 (About20KmSouthSouthWest)	2011/4/4 12:11	0.7 * ²	N: 37° 20' 25.3"	20110402 確認	No Rain	Police (counter NBC operations unit)
Reading Point 【77】 (About25KmSouthSouthWest)	2011/4/4 11:55	1.5 * ²	E: 140° 48' 25.7"		No Rain	Police (counter NBC operations unit)
Reading Point 【78】 (About45KmNorthWest)	2011/4/4 7:52	1.2 * ²			No Rain	Police (counter NBC operations unit)
Reading Point 【79】 (About30KmNorthWest)	2011/4/4 11:44	15.4 * ²			No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【79】 (About30KmNorthWest)	2011/4/4 10:27	13.5 * ²	N: 37° 33' 22.2"	20110323 確認	No Rain	Police (counter NBC operations unit)
Reading Point 【80】 (About25KmNorth)	2011/4/4 13:02	0.7 * ²	E: 140° 45' 46.9"		No Rain	Police (counter NBC operations unit)
Reading Point 【80】 (About25KmNorth)	2011/4/4 11:57	0.6 * ²	N: 37° 33' 22.2"	20110323 確認	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【81】 (About30KmNorthWest)	2011/4/4 8:55	27.4 * ²	E: 140° 45' 46.9"		No Rain	Police (counter NBC operations unit)

- * 1 measured by Geiger-Müller counter
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- * 3 measured by NaI scintillator detector
- * 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : μ Sv / h)	測定位置	測定位置 の備考	Weather	Reading by
Reading Point 【83】 (About20KmNorthWest)	2011/4/4 12:29	57.0 *2			No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【83】 (About20KmNorthWest)	2011/4/4 10:42	51.5 *2			No Rain	Police (counter NBC operations unit
Reading Point 【84】 (About40KmSouthSouthWest)	2011/4/4 10:17	0.4 *2	N: 37° 10' 20.0" E: 140° 43' 30.7"	20110330 確認	No Rain	MEXT
Reading Point 【85】 (About60KmNorthWest)	2011/4/4 14:00	0.7 *2	N: 37° 22' 45.0" E: 140° 22' 59.0"	20110330 確認	No Rain	Ministry of Defense
Reading Point 【85】 (About60KmNorthWest)	2011/4/4 6:00	0.6 *2	N: 37° 22' 45.0" E: 140° 22' 59.0"	20110330 確認	No Rain	Ministry of Defense
Reading Point 【86】 (About55KmWest)	2011/4/4 14:00	1.0 *2	N: 37° 23' 57.0" E: 140° 19' 35.0"	20110330 確認	No Rain	Ministry of Defense
Reading Point 【86】 (About55KmWest)	2011/4/4 6:00	1.0 *2	N: 37° 23' 57.0" E: 140° 19' 35.0"	20110330 確認	No Rain	Ministry of Defense
Reading Point 【87】 (About30KmWestSouthWest)	2011/4/4 14:00	1.2 *2	N: 37° 21' 42.0" E: 140° 42' 54.0"	20110330 確認	No Rain	Ministry of Defense
Reading Point 【87】 (About30KmWestSouthWest)	2011/4/4 6:00	1.0 *2	N: 37° 21' 42.0" E: 140° 42' 54.0"	20110330 確認	No Rain	Ministry of Defense

Reading of environmental radioactivity level by prefecture

H23.4.4 19:00

(μSv/h)

	Prefecture(City)	4/3							4/4							Usual Value Band
		17-18	18-19	19-20	20-21	21-22	22-23	23-24	0-1	1-2	2-3	3-4	4-5	5-6	6-7	
1	Hokkaido(Sapporo)	0.032	0.030	0.029	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.02~0.105
2	Aomori(Aomori)	0.027	0.027	0.027	0.027	0.027	0.027	0.029	0.032	0.028	0.028	0.028	0.027	0.027	0.027	0.017~0.102
3	Iwate(Morioka)	0.025	0.024	0.025	0.025	0.025	0.025	0.024	0.025	0.025	0.026	0.025	0.025	0.025	0.026	0.014~0.084
4	Miyagi(Sendai)	0.079	0.078	0.076	0.076	0.075	0.075	0.075	0.074	0.073	0.073	0.073	0.072	0.073	0.072	0.0176~0.0513
5	Akita(Akita)	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.034	0.034	0.034	0.022~0.086
6	Yamagata(Yamagata)	0.060	0.061	0.061	0.060	0.061	0.061	0.061	0.061	0.061	0.061	0.060	0.061	0.060	0.060	0.025~0.082
7	Fukushima(Futaba)															0.037~0.071
8	Ibaraki(Mito)	0.174	0.174	0.173	0.173	0.174	0.173	0.173	0.173	0.173	0.172	0.172	0.172	0.172	0.171	0.036~0.056
9	Tochigi(Utsunomiya)	0.083	0.084	0.084	0.084	0.084	0.083	0.084	0.083	0.084	0.083	0.084	0.083	0.084	0.084	0.030~0.067
10	Gunma(Maebashi)	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.047	0.017~0.045
11	Saitama(Saitama)	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.072	0.031~0.060
12	Chiba(Ishihara)	0.064	0.065	0.064	0.065	0.064	0.065	0.064	0.064	0.065	0.064	0.064	0.065	0.065	0.064	0.022~0.044
13	Tokyo(Shinjyuku)	0.091	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.091	0.090	0.090	0.090	0.028~0.079
14	Kanagawa(Chigasaki)	0.063	0.064	0.064	0.064	0.063	0.063	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.035~0.069
15	Niigata(Niigata)	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.031~0.153
16	Toyama(Imizu)	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.029~0.147
17	Ishikawa(Kanazawa)	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.0291~0.1275
18	Fukui(Fukui)	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.032~0.097
19	Yamanashi(Kohu)	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.043	0.044	0.043	0.044	0.044	0.044	0.040~0.064
20	Nagano(Nagano)	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.0299~0.0974
21	Gifu(Kakamigahara)	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.061	0.061	0.061	0.061	0.061	0.057~0.110
22	Shizuoka(Shizuoka)	0.039	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.0281~0.0765
23	Aichi(Nagoya)	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.040	0.040	0.035~0.074
24	Mie(Yokkaichi)	0.045	0.046	0.046	0.045	0.045	0.045	0.045	0.046	0.045	0.046	0.045	0.045	0.045	0.045	0.0416~0.0789
25	Shiga(Otsu)	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.031~0.061
26	Kyoto(Kyoto)	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.039	0.039	0.040	0.040	0.040	0.033~0.087
27	Osaka(Osaka)	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042~0.061
28	Hyogo(Kobe)	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035~0.076
29	Nara(Nara)	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048	0.049	0.049	0.049	0.049	0.046~0.08
30	Wakayama(Wakayama)	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.032	0.032	0.031~0.056
31	Tottori(Tohhaku)	0.062	0.062	0.062	0.063	0.063	0.062	0.063	0.063	0.063	0.063	0.063	0.063	0.062	0.062	0.036~0.11
32	Shimane(Matsue)	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.033~0.079
33	Okayama(Okayama)	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.050	0.050	0.051	0.050	0.051	0.043~0.104
34	Hiroshima(Hiroshima)	0.046	0.046	0.047	0.046	0.046	0.047	0.046	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.035~0.069
35	Yamaguchi(Yamaguchi)	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.093	0.092	0.093	0.093	0.093	0.094	0.094	0.084~0.128
36	Tokushima(Tokushima)	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.037~0.067
37	Kagawa(Takamastu)	0.059	0.054	0.059	0.062	0.058	0.053	0.062	0.063	0.058	0.055	0.068	0.068	0.057	0.059	0.051~0.077
38	Ehime(Matsuyama)	0.047	0.047	0.047	0.048	0.047	0.047	0.048	0.048	0.047	0.047	0.047	0.048	0.048	0.048	0.045~0.074
39	Kochi(Kochi)	0.025	0.025	0.024	0.024	0.025	0.025	0.025	0.025	0.024	0.024	0.025	0.024	0.024	0.024	0.023~0.076
40	Fukuoka(Dazaifu)	0.036	0.036	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.036	0.034~0.079
41	Saga(Saga)	0.040	0.039	0.039	0.039	0.040	0.039	0.039	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.037~0.086
42	Nagasaki(Ohmura)	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.027~0.069
43	Kumamoto(Uto)	0.027	0.027	0.027	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.027	0.028	0.027	0.028	0.021~0.067
44	Oita(Oita)	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.048~0.085
45	Miyazaki(Miyazaki)	0.027	0.027	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.0243~0.0664
46	Kagoshima(Kagoshima)	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.0306~0.0943
47	Okinawa(Uruma)	0.021	0.021	0.020	0.021	0.021	0.021	0.021	0.022	0.021	0.022	0.022	0.021	0.021	0.023	0.0133~0.0575

*Figures for Miyagi Prefecture are measured by transportable monitoring post.

*Refer to other title "Readings at Monitoring Post out of 20 Km Zone of Fukushima Dai-ichi NPP" for the datas in Fukushima. It could not be measured by Monitoring Post since the radiation level around it is so high.

*Blanks are caused by device maintenance, but the area was measured by Monitoring Posts.

*These figures are estimated as 1 μGy/h=1 μSv/h.

*The table was made by MEXT, based on the reports from prefectures.

H23.4.4 19:00

(μ Sv/h)

	Prefecture(City)	4/4										Usual Value Band
		7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	
1	Hokkaido(Sapporo)	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.02~0.105
2	Aomori(Aomori)	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.017~0.102
3	Iwate(Morioka)	0.025	0.025	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.025	0.014~0.084
4	Miyagi(Sendai)	0.074	0.077	0.081	0.082	0.081	0.081	0.081	0.081	0.080	0.077	0.0176~0.0513
5	Akita(Akita)	0.035	0.036	0.036	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.022~0.086
6	Yamagata(Yamagata)	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.025~0.082
7	Fukushima(Futaba)											0.037~0.071
8	Ibaraki(Mito)	0.171	0.171	0.171	0.171	0.170	0.170	0.170	0.169	0.169	0.169	0.036~0.056
9	Tochigi(Utsunomiya)	0.083	0.083	0.082	0.082	0.082	0.082	0.082	0.081	0.082	0.082	0.030~0.067
10	Gunma(Maebashi)	0.047	0.047	0.046	0.047	0.046	0.046	0.046	0.046	0.046	0.046	0.017~0.045
11	Saitama(Saitama)	0.072	0.072	0.072	0.071	0.072	0.071	0.071		0.071	0.071	0.031~0.060
12	Chiba(Ishihara)	0.064	0.064	0.063	0.063	0.062	0.063	0.063	0.062	0.062	0.063	0.022~0.044
13	Tokyo(Shinjyuku)	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.089	0.089	0.028~0.079
14	Kanagawa(Chigasaki)	0.063	0.063	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.035~0.069
15	Niigata(Niigata)	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.031~0.153
16	Toyama(Imizu)	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.029~0.147
17	Ishikawa(Kanazawa)	0.047	0.047	0.047	0.047	0.046	0.047	0.046	0.047	0.046	0.047	0.0291~0.1275
18	Fukui(Fukui)	0.046	0.045	0.045	0.045	0.045	0.044	0.045	0.045	0.045	0.045	0.032~0.097
19	Yamanashi(Kofu)	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.042	0.043	0.040~0.064
20	Nagano(Nagano)	0.045	0.044	0.043	0.043	0.044	0.043	0.043	0.043	0.043	0.043	0.0299~0.0974
21	Gifu(Kakamigahara)	0.060	0.061	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.057~0.110
22	Shizuoka(Shizuoka)	0.037	0.037	0.038	0.039	0.041	0.041	0.039	0.039	0.039	0.038	0.0281~0.0765
23	Aichi(Nagoya)	0.040	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.038	0.039	0.035~0.074
24	Mie(Yokkaichi)	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.046	0.046	0.045	0.0416~0.0753
25	Shiga(Otsu)	0.033	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.031~0.061
26	Kyoto(Kyoto)	0.040	0.039	0.038	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.033~0.087
27	Osaka(Osaka)	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.041	0.041	0.041	0.042~0.061
28	Hyogo(Kobe)	0.036	0.036	0.036	0.035	0.035	0.035	0.035	0.036	0.035	0.035	0.035~0.076
29	Nara(Nara)	0.049	0.048	0.047	0.047	0.047	0.047	0.046	0.047	0.046	0.046	0.046~0.08
30	Wakayama(Wakayama)	0.032	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.030	0.031~0.056
31	Tottori(Tohhaku)	0.062	0.062	0.063	0.063	0.062	0.062	0.062	0.063	0.062	0.062	0.036~0.11
32	Shimane(Matsue)	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.033~0.079
33	Okayama(Okayama)	0.050	0.049	0.049	0.048	0.048	0.048	0.047	0.048	0.048	0.048	0.043~0.104
34	Hiroshima(Hiroshima)	0.047	0.047	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.035~0.069
35	Yamaguchi(Yamaguchi)	0.093	0.093	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.084~0.128
36	Tokushima(Tokushima)	0.038	0.036	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.037	0.037~0.067
37	Kagawa(Takamastu)	0.067	0.055	0.054	0.054	0.054	0.054	0.055	0.054	0.054	0.054	0.051~0.077
38	Ehime(Matsuyama)	0.048	0.047	0.047	0.047	0.046	0.046	0.047	0.046	0.047	0.047	0.045~0.074
39	Kochi(Kochi)	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.024	0.024	0.024	0.023~0.076
40	Fukuoka(Dazaifu)	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035	0.036	0.034~0.079
41	Saga(Saga)	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.037~0.086
42	Nagasaki(Ohmura)	0.030	0.029	0.029	0.029	0.029	0.028	0.029	0.028	0.029	0.029	0.027~0.069
43	Kumamoto(Uto)	0.027	0.027	0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.021~0.067
44	Oita(Oita)	0.049	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.048~0.085
45	Miyazaki(Miyazaki)	0.027	0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.0243~0.0664
46	Kagoshima(Kagoshima)	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.035	0.035	0.035	0.0306~0.0943
47	Okinawa(Uruma)	0.023	0.024	0.024	0.022	0.021	0.022	0.023	0.023	0.023	0.022	0.0133~0.0575

*Figures for Miyagi Prefecture are measured by transportable monitoring post.

*Refer to other title "Readings at Monitoring Post out of 20 Km Zone of Fukushima Dai-ichi NPP" for the data in Fukushima. It could not be measured by 0

*Blanks are caused by device maintenance, but the area was measured by Monitoring Posts.

*These figures are estimated as 1μ Gy/h = 1μ Sv/h.

*The table was made by MEXT, based on the reports from prefectures.

From: OST05 Hoc
Sent: Wednesday, March 23, 2011 11:32 AM
To: McNamara, Nancy
Subject: RE: Questions: Japan contaminated articles

Please call me on my BB to discuss. Rich (b)(6)

From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 6:33 PM
To: LIA04 Hoc; OST05 Hoc
Subject: Questions: Japan contaminated articles

Two emails referring questions regarding contaminated articles coming into the country. Please advise.

From: Collins, Daniel
Sent: Tuesday, March 22, 2011 6:25 PM
To: McNamara, Nancy; Tiff, Doug
Cc: Lorson, Raymond; Orendi, Monica; Janda, Donna
Subject: RE: Japan contaminated articles

Nancy -

FYI. We also received a call from New Jersey about some contaminated news crew equipment that got cleared by customs when it came through JFK (returning from Japan). The equipment went to a warehouse in NJ, where it was identified as contaminated when the warehouse owner hired a consultant to perform surveys of the equipment. NJ did not have a detailed isotopic analysis.

We also touched base with Region III and Region IV to see if they have had similar calls. Region III is aware of an individual (a pilot?) who came through Chicago-Ohare and was determined to be contaminated. Region IV is aware of some medical equipment that went through DFW and was identified as being contaminated.

In addition to the contaminated people/equipment, we received a call from the Commonwealth of Virginia. They were contacted by the Comprehensive Test Ban Treaty site in Charlottesville, VA, who notified VA that they (the CTBT site) were detecting radioactivity. VA wanted to know if NRC is tracking/trending isotopic activity/dispersion over the US and who they can talk to. VA did not have info on isotopes or concentrations.

We informed the R-1 RDO and contacted the ops center liaison team and shared this info with them so they can assimilate the info and feed it to the appropriate part(s) of NRC to help develop a coordinated response to these types of issues.

Please call me on black berry (b)(6) if you wish to discuss further.

Thanks,
Dan

From: Modes, Kathy
Sent: Tuesday, March 22, 2011 12:28 PM
To: Screnci, Diane

RRR/87

Cc: Roberts, Mark; Lorson, Raymond; Collins, Daniel
Subject: Japan contaminated articles

Just got off the phone with Hank Siegrist, RSO for Cabrera Services (NRC Service Provider licensee from Connecticut). Hank wanted to know how to handle this situation:

News crews have returned to the US and their articles are slightly contaminated. It is fixed contamination. No removable contamination. Hank measured 50,000 dpm/100 square cm and a dose rate of 1 microrem above background. His guess is that it is approximately 85% Cs-137, 10% I-131 and 5% Sr-90. The articles are in a plastic radioactive labeled bag and he informed the news crew that he would contact the NRC about disposal. One of his staff used to work for the NRC and recalls this happening after Chernobyl. Should Hank tell the news crew to contact a radwaste broker (see list of brokers on www.crcpd.org website) or what?

Hank Siegrist cell: (b)(6)

Any assistance and guidance would be appreciated.

Thanks,

Kathy Modes

Senior Health Physicist
Decommissioning Branch
USNRC - Region I - DNMS
(P) 610.337.5251
(F) 610.337.5269

From: McNamara, Nancy
Sent: Wednesday, March 23, 2011 8:07 AM
To: OST05 Hoc; LIA04 Hoc
Cc: Hoc, PMT12; PMT03 Hoc; Collins, Daniel; Lorson, Raymond; Janda, Donna; Orendi, Monica
Subject: RE: Questions: Japan contaminated articles
Categories: Red Category-follow-up Action

Michele, thanks. There appears to be 2 issues. One is what kind of monitoring is being done at airports to identify contaminated items like news cameras in bags, etc.?

The 2nd issue is what the Regions are getting which is related to what should people do w/the contaminated waste. How do they dispose of it?

Can the Liaison Team please make that distinction to the protective measures team that are working the questions.

Thanks.

From: OST05 Hoc
Sent: Tuesday, March 22, 2011 9:15 PM
To: McNamara, Nancy; LIA04 Hoc
Cc: Hoc, PMT12; PMT03 Hoc
Subject: RE: Questions: Japan contaminated articles

Nancy,

The Liaison Team is awaiting additional information from U.S. Customs and Border Protection (tomorrow) regarding Aircraft, Passenger, Baggage and Cargo Radiological Monitoring. Information regarding radiation air monitoring data can be found on the EPA website as part of their RadNet system. Questions regarding should be directed to EPA regarding this Data. <http://www.epa.gov/japan2011/rert/radnet-data.html>

Michelle

Michelle Ryan
State Liaison – Liaison Team
Incident Response Center

From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 6:33 PM
To: LIA04 Hoc; OST05 Hoc
Subject: Questions: Japan contaminated articles

Two emails referring questions regarding contaminated articles coming into the country. Please advise.

RRR/88

From: Collins, Daniel
Sent: Tuesday, March 22, 2011 6:25 PM
To: McNamara, Nancy; Tift, Doug
Cc: Lorson, Raymond; Orendi, Monica; Janda, Donna
Subject: RE: Japan contaminated articles

Nancy –

FYI. We also received a call from New Jersey about some contaminated news crew equipment that got cleared by customs when it came through JFK (returning from Japan). The equipment went to a warehouse in NJ, where it was identified as contaminated when the warehouse owner hired a consultant to perform surveys of the equipment. NJ did not have a detailed isotopic analysis.

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Dan

From: Modes, Kathy
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Cc: Roberts, Mark; Lorson, Raymond; Collins, Daniel
Subject: Japan contaminated articles

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Hank Siegrist cell: (b)(6)

Any assistance and guidance would be appreciated.

Thanks,

Kathy Modes

Senior Health Physicist
Decommissioning Branch
USNRC - Region I - DNMS
(P) 610.337.5251
(F) 610.337.5269

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 2:42 PM
To: Erickson, Randy; Maier, Bill; Browder, Rachel
Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turttil, Richard; Virgilio, Rosetta
Subject: RE: Request for Information

Randy,

You indicated in your response below that: "LA County has a contract with NRC to provide inspection and other related services within the confines of LA County." Did you mean the California Agreement State Program--CA Department of Health Services??

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

From: Erickson, Randy
Sent: Wednesday, March 23, 2011 2:33 PM
To: Erickson, Randy; LIA04 Hoc; Maier, Bill; Browder, Rachel
Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turttil, Richard; Virgilio, Rosetta
Subject: RE: Request for Information

Cardelia,

This is in response to your call about LA County possibly bypassing the State Health Department and asking for information directly from IAEA and NRC. LA County has a contract with NRC to provide inspection and other related services within the confines of LA County.

I spoke with Gary Butner by telephone just a few minutes ago and he informed me that the contract they have with LA County includes Emergency Response services and that LA County should be making requests for information through Sacramento. He indicated that what they are asking for is outside that contract. He added that because they have an abundance of equipment supplied by Homeland Security they are performing air and water sampling outside of the State Lab in Sacramento.

Gary told me he would be calling Mr. Day today (acting Director) to ensure he understood the proper routing of questions and that they should all be routed through Sacramento.

Randy

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

From: Erickson, Randy
Sent: Wednesday, March 23, 2011 10:35 AM
To: LIA04 Hoc; Maier, Bill; Browder, Rachel

RRR/89

Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard; Virgilio, Rosetta
Subject: FW: Request for Information

Mr. Jeffrey Day, Acting Director for LA County Public Health requested that NRC provide him with a spectrum of the isotopes of concern found as a result of the Japan reactor event.

He informed me that they have at least one ship in Port that was located about 300 miles south of the event site and is now in Port for offload. It has been found to be contaminated as noted below. He requested any spectrum NRC might have regarding what isotopes are of interest.

I told him that NRC does not have the lead for this and I received the same general lecture about how the federal family is not providing them with information they can use. I informed him that DOE has the lead and provided him with a DOE contact.

Randy

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

From: Jeffrey Day [mailto:jsday@ph.lacounty.gov]
Sent: Wednesday, March 23, 2011 10:19 AM
To: Erickson, Randy
Subject: RE: Request for Information

Randy,

I get a spectrum that contains Cs-137, I-131, and Te-132? This would be helpful for identifying spectrum that we are currently collecting.

Thanks,
-Jeff.

Jeff Day, RPT
Principal Radiation Protection Specialist
e-mail: jsday@ph.lacounty.gov
Telephone: (213) 351-7393, Fax: (213) 351-2718
Cellular: (b)(6), Pager: (b)(6)

Environmental Health - Radiation Management
3530 Wilshire Boulevard, 9th Floor, Los Angeles, CA 90010
24hr Emergency: (213) 974-1234 County Operator
24hr Emergency: (213) 989-7140 Public Health

>>> "Erickson, Randy" <Randy.Erickson@nrc.gov> 03/23/11 8:00 AM >>>
DOE Contact:

Sarah Hartson
Regional Response Coordinator
RAP Region 7
NNSA/Livermore Site Office

Operations Management

Ph: (925) 423-3250

Fax: (925) 422-2832

Cell: (b)(6)

Cell (Blackberry): (b)(6)

Pager: (b)(6) or (b)(6)

Email: sarah.hartson@oak.doe.gov

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

From: Jeffrey Day [mailto:jsday@ph.lacounty.gov]

Sent: Wednesday, March 23, 2011 9:59 AM

To: Erickson, Randy

Subject: Request for Information

Please provide the DOE contact for my region.

-Jeff.

Jeff Day, RPT

Principal Radiation Protection Specialist

e-mail: jsday@ph.lacounty.gov

Telephone: (213) 351-7393, Fax: (213) 351-2718

Cellular: (b)(6), Pager: (b)(6)

Environmental Health - Radiation Management

3530 Wilshire Boulevard, 9th Floor, Los Angeles, CA 90010

24hr Emergency: (213) 974-1234 County Operator

24hr Emergency: (213) 989-7140 Public Health

From: OST02 HOC
Sent: Monday, April 04, 2011 7:19 AM
To: RST01 Hoc; PMT01 Hoc; PMT02 Hoc; PMT11 Hoc
Subject: FW: Radiation data by MEXT
Attachments: (Japanese)20110404_20.pdf; (Japanese)20110404_21.pdf; (Japanese)20110404_22.pdf; (Japanese)20110404_23.pdf; (Japanese)20110404_24.pdf; (Japanese)20110404_25.pdf; (Japanese)20110404_26.pdf; (unofficial)(Japanese)20110404_20with lat_long.pdf

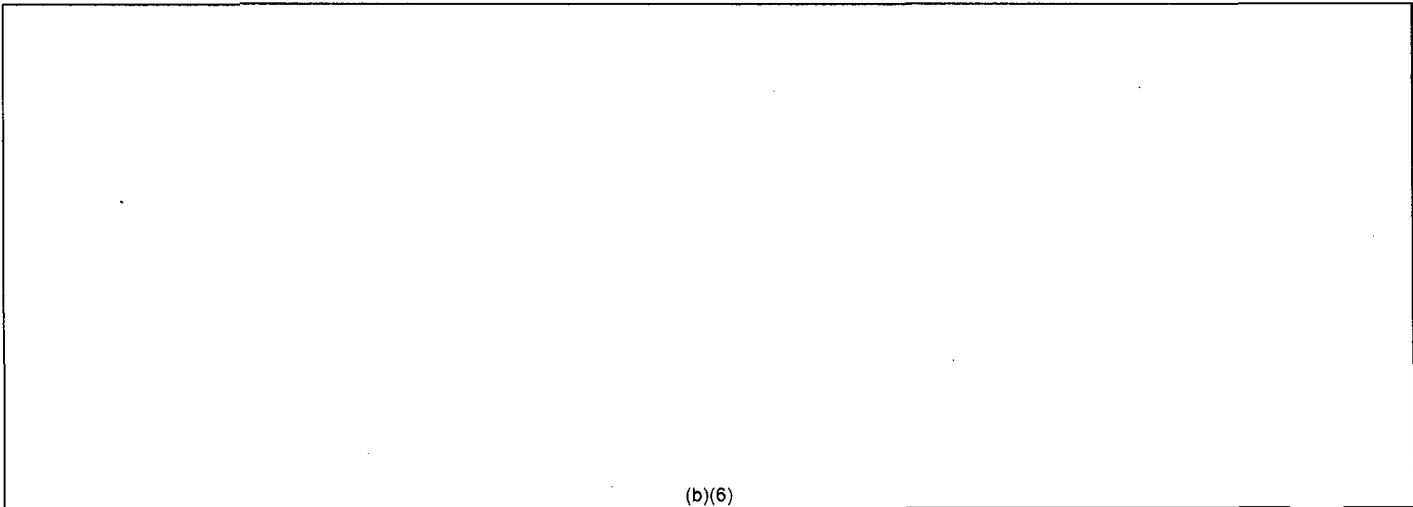
-----Original Message-----

From: HOO Hoc
Sent: Monday, April 04, 2011 7:18 AM
To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC
Subject: FW: Radiation data by MEXT

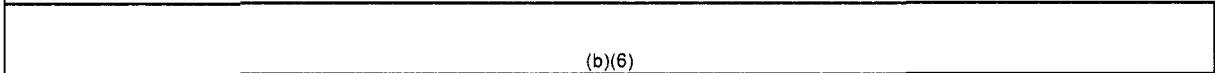
Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: (301) 816-5148
Fax: (301) 816-5151
Email: hoo.hoc@nrc.gov
Secure Email: hoo@nrc.sgov.gov

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

From: eda@mext.go.jp [mailto:eda@mext.go.jp]
Sent: Monday, April 04, 2011 7:17 AM



(b)(6)



(b)(6)

RRR/90

(b)(6)

Cc: saigai03@mext.go.jp; akasaka@mext.go.jp; senami@mext.go.jp
Subject: Radiation data by MEXT

Dear Sir,

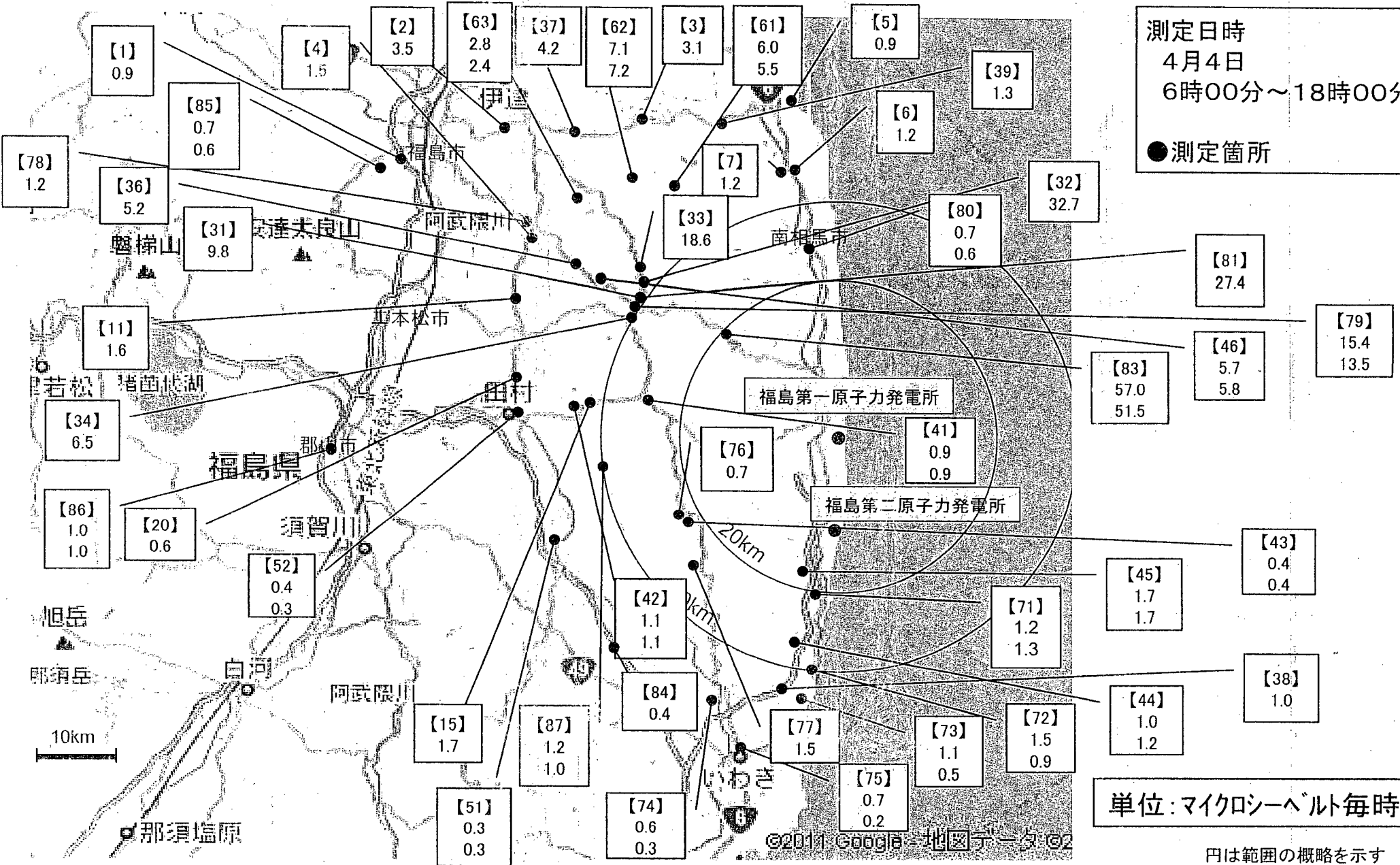
Please see attached the document.

Sincerely yours,
Kei EDA
EOC, Ministry of Education, Culture, Sports, Science & Technology (MEXT), Japan

	都道府県名	定時降下物		
		I-131	Cs-137	備考
1	北海道(札幌市)	不検出	不検出	
2	青森県(青森市)	不検出	不検出	
3	岩手県(盛岡市)	不検出	不検出	
4	宮城県	-	-	震災被害によって計測不能
5	秋田県(秋田市)	不検出	不検出	
6	山形県(山形市)	-	-	機器調整中
7	福島県(福島市)	-	-	現在測定中
8	茨城県(ひたちなか市)	23	不検出	
9	栃木県(宇都宮市)	75	46	
10	群馬県(前橋市)	3.1	7.4	
11	埼玉県(さいたま市)	16	18	
12	千葉県(市原市)	22	23	
13	東京都(新宿区)	20	18	
14	神奈川県(茅ヶ崎市)	11	7.8	
15	新潟県(新潟市)	不検出	不検出	
16	富山県(射水市)	不検出	不検出	
17	石川県(金沢市)	不検出	不検出	
18	福井県(福井市)	不検出	不検出	
19	山梨県(甲府市)	不検出	不検出	
20	長野県(長野市)	不検出	不検出	
21	岐阜県(各務原市)	不検出	不検出	
22	静岡県(御前崎市)	不検出	不検出	
23	愛知県(名古屋市)	不検出	不検出	
24	三重県(四日市市)	不検出	不検出	
25	滋賀県(大津市)	不検出	不検出	
26	京都府(京都市)	不検出	不検出	
27	大阪府(大阪市)	不検出	不検出	
28	兵庫県(神戸市)	不検出	不検出	
29	奈良県(奈良市)	不検出	不検出	
30	和歌山県(和歌山市)	不検出	不検出	
31	鳥取県(東伯郡)	不検出	不検出	
32	島根県(松江市)	不検出	不検出	
33	岡山県(岡山市)	不検出	不検出	
34	広島県(広島市)	不検出	不検出	
35	山口県(山口市)	不検出	不検出	
36	徳島県(徳島市)	不検出	不検出	
37	香川県(高松市)	不検出	不検出	
38	愛媛県(八幡浜市)	不検出	不検出	
39	高知県(高知市)	不検出	不検出	
40	福岡県(太宰府市)	不検出	不検出	
41	佐賀県(佐賀市)	不検出	不検出	
42	長崎県(大村市)	不検出	不検出	
43	熊本県(宇土市)	不検出	不検出	
44	大分県(大分市)	不検出	不検出	
45	宮崎県(宮崎市)	不検出	不検出	
46	鹿児島県(鹿児島市)	不検出	不検出	
47	沖縄県(南城市)	不検出	不検出	

*文部科学省が各都道府県等からの報告に基づき作成

福島第一原子力発電所周辺のモニタリング結果



H23.4.4 19:00

 μ Sv/h(マイクロシーベルト毎時)

日時	日本原子力研究開発機構 原子力科学研究所 (茨城県東海村)	日本原子力研究開発機構 核燃料サイクル工学研究所 (茨城県東海村)	東京大学弥生 (茨城県東海村)
4月4日			
0:00	1.30	0.74	1.01
1:00	1.30	0.74	1.12
2:00	1.29	0.74	1.10
3:00	1.30	0.74	1.02
4:00	1.29	0.73	1.10
5:00	1.29	0.73	1.04
6:00	1.28	0.73	1.11
7:00	1.28	0.73	1.01
8:00	1.28	0.73	0.98
9:00	1.27	0.72	1.12
10:00	1.27	0.72	1.14
11:00	1.27	0.72	1.07
12:00	1.27	0.72	1.00
13:00	1.27	0.72	0.99
14:00	1.27	0.72	1.09
15:00	1.26	0.72	1.09
16:00	1.26	0.72	1.11
17:00	1.26	0.71	1.00
18:00	1.26	0.72	

※このデータは、表記の3カ所における空間線量率を1時間毎に計測したもの。日本原子力研究開発機構原子力科学研究所及び日本原子力研究開発機構核燃料サイクル工学研究所のデータは、それぞれ以下のホームページでも掲載されている。

日本原子力研究開発機構原子力科学研究所

<http://erms.jaea.go.jp/Chart.htm>

日本原子力研究開発機構核燃料サイクル工学研究所

http://www.jaea.go.jp/04/ztokai/kankyo/realtime/tbl_10mStPo01.html

福島第一原子力発電所の20km以遠のモニタリング結果について

平成23年4月4日 19時00分現在
文 部 科 学 省

○文部科学省が集計した結果 注)太下線データが今回追加分

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置			測定位置 の備考	天候	実施者
測定エリア【1】(約60km北西)	4月4日8時40分	0.9 ^{*2}	N: 37° 44'	E: 140° 28'	12.6"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【2】(約55km北西)	4月4日9時16分	3.5 ^{*2}	N: 37° 41'	E: 140° 33'	12.7"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【3】(約45km北西)	4月4日10時00分	3.1 ^{*2}	N: 37° 45'	E: 140° 44'	40.5"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【4】(約50km北西)	4月4日9時29分	1.5 ^{*2}	N: 37° 39'	E: 140° 35'	30.0"	20110330 確認	降雨なし	文部科学省
測定エリア【5】(約45km北)	4月4日10時47分	0.9 ^{*2}	N: 37° 47'	E: 140° 55'	17.4"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【6】(約45km北)	4月4日11時13分	1.2 ^{*2}	N: 37° 42'	E: 140° 58'	09.5"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【7】(約45km北)	4月4日11時28分	1.2 ^{*2}	N: 37° 41'	E: 140° 57'	49.0"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【11】(約40km北西)	4月4日9時48分	1.6 ^{*2}	N: 37° 34'	E: 140° 34'	00.0"	20110330 確認	降雨なし	文部科学省
測定エリア【15】(約35km西)	4月4日11時08分	1.7 ^{*2}	N: 37° 26'	E: 140° 40'	54.0"	20110330 確認	降雨なし	文部科学省
測定エリア【20】(約45km北西)	4月4日10時10分	0.6 ^{*2}	N: 37° 29'	E: 140° 34'	24.2"	20110330 確認	降雨なし	文部科学省
測定エリア【31】(約30km西北西)	4月4日10時16分	9.8 ^{*2}	N: 37° 33'	E: 140° 44'	45.0"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【32】(約30km北西)	4月4日10時44分	32.7 ^{*2}	N: 37° 35'	E: 140° 45'	42.0"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【33】(約30km北西)	4月4日11時06分	18.6 ^{*2}	N: 37° 36'	E: 140° 45'	34.6"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【34】(約30km北西)	4月4日12時48分	6.5 ^{*2}	N: 37° 33'	E: 140° 44'	03.2"	20110330 確認	降雨なし	日本原子力研究開発機構
測定エリア【36】(約40km北西)	4月4日9時48分	5.2 ^{*2}	N: 37° 36'	E: 140° 37'	20.6"	20110331 確認	降雨なし	日本原子力研究開発機構
測定エリア【37】(約50km北西)	4月4日9時51分	4.2 ^{*2}	N: 37° 45'	E: 140° 41'	06.7"	20110402 確認	降雨なし	日本原子力研究開発機構
測定エリア【38】(約35km南)	4月4日12時11分	1.0 ^{*2}	N: 37° 07'	E: 140° 18.4"		20110401	降雨なし	文部科学省

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置	測定位置 の備考	天候	実施者
測定エリア【38】(約30km北)	4月4日12時11分	1.0	E: 140° 57' 03.8"	確認	降雨なし	大田博子
測定エリア【39】(約45km北)	4月4日10時23分	1.3 ^{*2}	N: 37° 45' 52.7" E: 140° 51' 47.1"	20110402 確認	降雨なし	日本原子力研究開発機構
測定エリア【41】(約20km西)	4月4日13時15分	0.9 ^{*2}			降雨なし	電力会社
測定エリア【41】(約20km西)	4月4日9時45分	0.9 ^{*2}			降雨なし	電力会社
測定エリア【42】(約30km西)	4月4日13時10分	1.1 ^{*2}			降雨なし	電力会社
測定エリア【42】(約30km西)	4月4日9時50分	1.1 ^{*2}			降雨なし	電力会社
測定エリア【43】(約20km南西)	4月4日14時45分	0.4 ^{*2}			降雨なし	電力会社
測定エリア【43】(約20km南西)	4月4日10時45分	0.4 ^{*2}			降雨なし	電力会社
測定エリア【44】(約30km南)	4月4日13時00分	1.0 ^{*2}			降雨なし	電力会社
測定エリア【44】(約30km南)	4月4日10時00分	1.2 ^{*2}			降雨なし	電力会社
測定エリア【45】(約20km南)	4月4日13時42分	1.7 ^{*2}			降雨なし	電力会社
測定エリア【45】(約20km南)	4月4日10時18分	1.7 ^{*2}			降雨なし	電力会社
測定エリア【46】(約30km北西)	4月4日14時00分	5.7 ^{*2}			降雨なし	電力会社
測定エリア【46】(約30km北西)	4月4日10時30分	5.8 ^{*2}			降雨なし	電力会社
測定エリア【51】(約40km南西)	4月4日13時31分	0.2 ^{*3}			降雨なし	福島県
測定エリア【51】(約40km南西)	4月4日10時36分	0.3 ^{*3}			降雨なし	福島県
測定エリア【52】(約40km西)	4月4日14時08分	0.3 ^{*3}			降雨なし	福島県
測定エリア【52】(約40km西)	4月4日11時18分	0.3 ^{*3}			降雨なし	福島県
測定エリア【61】(約40km北西)	4月4日14時19分	6.1 ^{*3}			降雨なし	福島県
測定エリア【61】(約40km北西)	4月4日12時26分	6.1 ^{*3}			降雨なし	福島県
測定エリア【62】(約40km北西)	4月4日14時16分	7.1 ^{*3}			降雨なし	福島県
測定エリア【62】(約40km北西)	4月4日11時34分	7.2 ^{*3}			降雨なし	福島県

- * 1 GM(ガイガーミュラー計測管)における値
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- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置	測定位置 の備考	天候	実施者
測定エリア【63】(約45km北西)	4月4日14時38分	2.8 ^{*3}			降雨なし	福島県
測定エリア【63】(約45km北西)	4月4日10時36分	2.4 ^{*3}			降雨なし	福島県
測定エリア【71】(約25km南)	4月4日13時11分	1.2 ^{*2}	N: 37° 12' 32.4"	20110323 確認	降雨なし	文部科学省
測定エリア【71】(約25km南)	4月4日8時19分	1.3 ^{*2}	E: 140° 57' 08.2"	20110323 確認	降雨なし	警察(NBC対策部隊)
測定エリア【72】(約30km南)	4月4日12時48分	1.5 ^{*2}			降雨なし	文部科学省
測定エリア【72】(約30km南)	4月4日8時54分	0.9 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【73】(約35km南)	4月4日12時28分	1.1 ^{*2}			降雨なし	文部科学省
測定エリア【73】(約35km南)	4月4日9時11分	0.5 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【74】(約35km南)	4月4日11時24分	0.6 ^{*2}			降雨なし	文部科学省
測定エリア【74】(約35km南)	4月4日7時32分	0.3 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【75】(約45km南)	4月4日10時48分	0.7 ^{*2}			降雨なし	文部科学省
測定エリア【75】(約45km南)	4月4日7時05分	0.2 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【76】(約20km南西)	4月4日12時11分	0.7 ^{*2}	N: 37° 20' 25.3"	20110402 確認	降雨なし	警察(NBC対策部隊)
測定エリア【77】(約25km南西)	4月4日11時55分	1.5 ^{*2}	E: 140° 48' 25.7"		降雨なし	警察(NBC対策部隊)
測定エリア【78】(約45km北西)	4月4日7時52分	1.2 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【79】(約30km北西)	4月4日11時44分	15.4 ^{*2}			降雨なし	日本原子力研究開発機構
測定エリア【79】(約30km北西)	4月4日10時27分	13.5 ^{*2}	N: 37° 33' 22.2"	20110323 確認	降雨なし	警察(NBC対策部隊)
測定エリア【80】(約25km北)	4月4日13時02分	0.7 ^{*2}	E: 140° 45' 46.9"		降雨なし	警察(NBC対策部隊)
測定エリア【80】(約25km北)	4月4日11時57分	0.6 ^{*2}	N: 37° 33' 22.2"	20110323 確認	降雨なし	日本原子力研究開発機構
測定エリア【81】(約30km北西)	4月4日8時55分	27.4 ^{*2}	E: 140° 45' 46.9"		降雨なし	警察(NBC対策部隊)
測定エリア【83】(約20km北西)	4月4日12時29分	57.0 ^{*2}			降雨なし	日本原子力研究開発機構

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- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	測定位置	測定位置 の備考	天候	実施者
測定エリア【83】(約20km北西)	4月4日10時42分	51.5 ^{*2}			降雨なし	警察(NBC対策部隊)
測定エリア【84】(約40km南西)	4月4日10時17分	0.4 ^{*2}	N: 37° 10' 20.0"	20110330 確認	降雨なし	文部科学省
測定エリア【85】(約60km北西)	4月4日14時00分	0.7 ^{*2}	E: 140° 43' 30.7"	20110330 確認	降雨なし	防衛省
測定エリア【85】(約60km北西)	4月4日6時00分	0.6 ^{*2}	N: 37° 22' 45.0"	20110330 確認	降雨なし	防衛省
測定エリア【86】(約55km西)	4月4日14時00分	1.0 ^{*2}	E: 140° 22' 59.0"	20110330 確認	降雨なし	防衛省
測定エリア【86】(約55km西)	4月4日6時00分	1.0 ^{*2}	N: 37° 23' 57.0"	20110330 確認	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月4日14時00分	1.2 ^{*2}	E: 140° 19' 35.0"	20110330 確認	降雨なし	防衛省
測定エリア【87】(約30km西南西)	4月4日6時00分	1.0 ^{*2}	N: 37° 21' 42.0"	20110330 確認	降雨なし	防衛省
			E: 140° 42' 54.0"			

全国大学等の協力による空間放射線量

上段: 24時間の積算値
下段: 上段の値を1時間あたりに換算した参考値

都道府県名	測定地点番号	地区名	4月3日～4日4日
北海道	1	室蘭市	1 μ Sv (0.04 μ Sv/h)
	2	帯広市	1 μ Sv (0.04 μ Sv/h)
	3	旭川市	2 μ Sv (0.08 μ Sv/h)
	4	北見市	1 μ Sv (0.04 μ Sv/h)
	5	釧路市	1 μ Sv (0.04 μ Sv/h)
	6	函館市	2 μ Sv (0.08 μ Sv/h)
青森県	7	弘前市	1 μ Sv (0.04 μ Sv/h)
	8	八戸市	1 μ Sv (0.04 μ Sv/h)
宮城県	9	仙台市	2 μ Sv (0.08 μ Sv/h)
山形県	10	米沢市	2 μ Sv (0.08 μ Sv/h)
	11	鶴岡市	2 μ Sv (0.08 μ Sv/h)
福島県	12	福島市	12 μ Sv (0.50 μ Sv/h)
茨城県	13	つくば市	4 μ Sv (0.2 μ Sv/h)
栃木県	14	小山市	3 μ Sv (0.1 μ Sv/h)
群馬県	15	桐生市	3 μ Sv (0.1 μ Sv/h)
千葉県	16	千葉市	4 μ Sv (0.2 μ Sv/h)
	17	木更津市	5 μ Sv (0.2 μ Sv/h)
東京都	18	文京区	3 μ Sv (0.1 μ Sv/h)
	19	府中市	3 μ Sv (0.1 μ Sv/h)
	20	目黒区	2 μ Sv (0.08 μ Sv/h)
	21	港区	3 μ Sv (0.1 μ Sv/h)
	22	八王子市	2 μ Sv (0.08 μ Sv/h)
神奈川県	23	横浜市	2 μ Sv (0.08 μ Sv/h)
新潟県	24	長岡市	2 μ Sv (0.08 μ Sv/h)
長野県	25	松本市	2 μ Sv (0.08 μ Sv/h)
	26	上田市	2 μ Sv (0.08 μ Sv/h)

* 毎日14時前後から翌日にかけて24時間の積算線量を測定

* ポケット線量計の測定範囲の下限値は1 μ Svのため、下段は参考値

福島第一原子力発電所周辺の海域モニタリング結果

平成23年4月4日
文部科学省

1. 海水中の放射能濃度

測定試料採取点 ^{※1}	採水日時	表層の放射能濃度 (Bq/L)		下層 ^{※2} の放射能濃度 (Bq/L)	
		I-131	Cs-137	I-131	Cs-137
【2】	4月3日8時09分	5.96	不検出	1.59	不検出
【4】	4月3日9時40分	11.6	不検出	2.96	1.16
【6】	4月3日11時04分	18.3	10.70	不検出	1.68
【8】	4月3日12時53分	5.55	1.16	1.98	3.40
【10】	4月3日14時35分	37.5	4.75	不検出	不検出

※1 サンプルは、5地点の抽出調査を行った。【 】内の数値は、2ページ目の測点番号に対応する。

※2 下層における採水深については、2ページ目の表に掲載する。

2. 海上の空間線量率

場所 ^{※1}	測定日時	数値 (マイクロシーベルト毎時) ^{※2}	天候
【2】	4月3日8時09分	0.08	降雨無し
【4】	4月3日9時40分	0.08	降雨無し
【6】	4月3日11時04分	0.08	降雨無し
【8】	4月3日12時53分	0.08	降雨無し
【10】	4月3日14時35分	0.07	降雨無し

※1 サンプルは、5地点の抽出調査を行った。【 】内の数値は、2ページ目の測点番号に対応する。

※2 検出器型式 CsI(Tl)シンチレーション検出器(PDR-101、アロカ株式会社)

3. 海上の塵中の放射能濃度

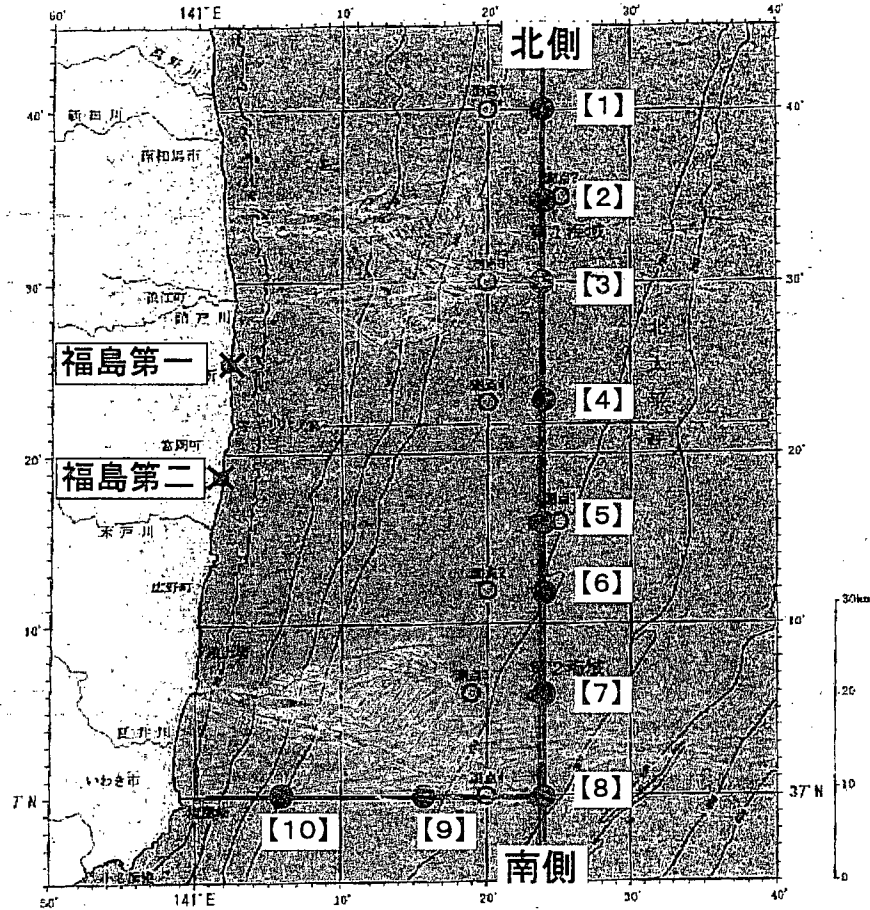
測定試料採取点 ^{※1}	採取日時	放射能濃度(Bq/m ³)	
		I-131	Cs-137
【2】	4月3日8時09分	不検出	不検出
【4】	4月3日9時40分	不検出	不検出
【6】	4月3日11時04分	8.84	2.82
【8】	4月3日12時53分	5.09	1.73
【10】	4月3日14時35分	0.435	0.03

※1 サンプルは、5地点の抽出調査を行った。【 】内の数値は、2ページ目の測点番号に対応する。

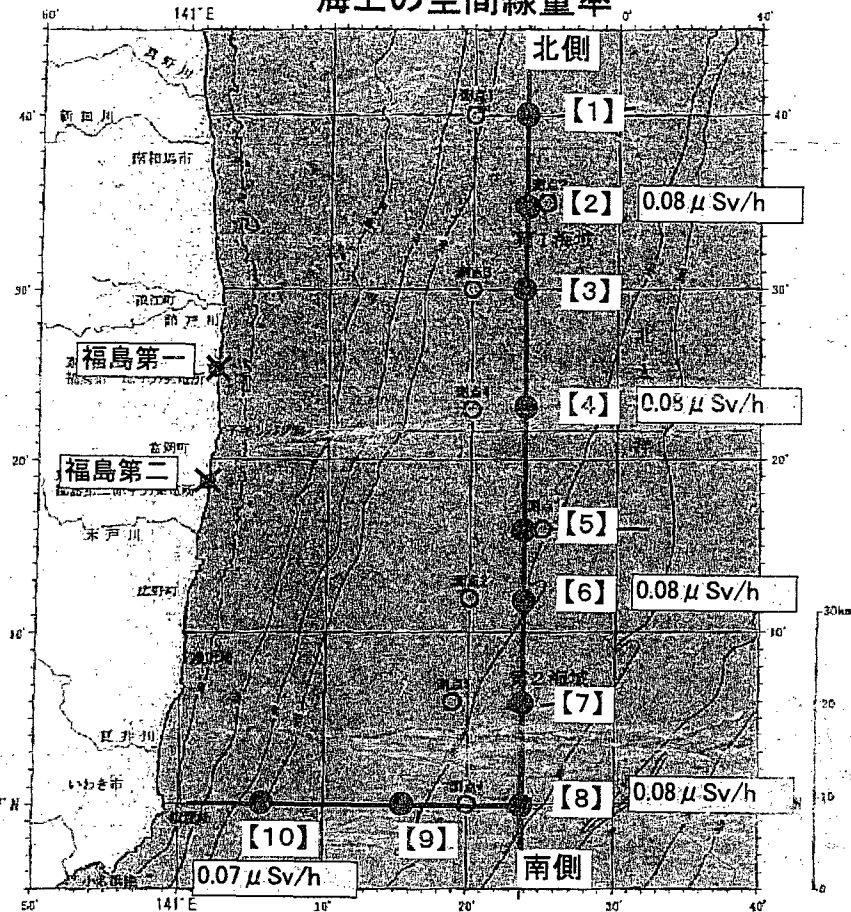
各測定点の位置は次のとおり

測点番号	緯度, 経度	下層の採水深
【2】	37° 35' N, 141° 24' E	120 m
【4】	37° 23' N, 141° 24' E	127 m
【6】	37° 12' N, 141° 24' E	142 m
【8】	37° 00' N, 141° 24' E	172 m
【10】	37° 00' N, 141° 05' E	84 m

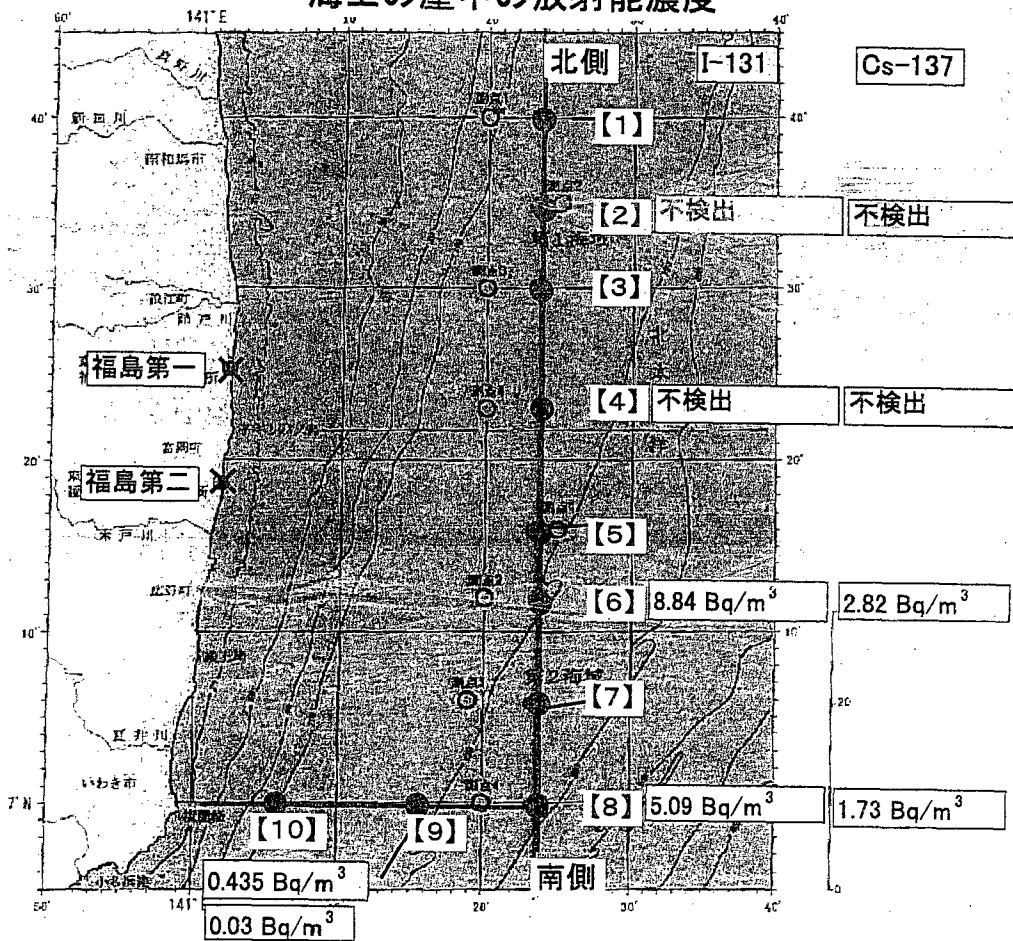
測点番号



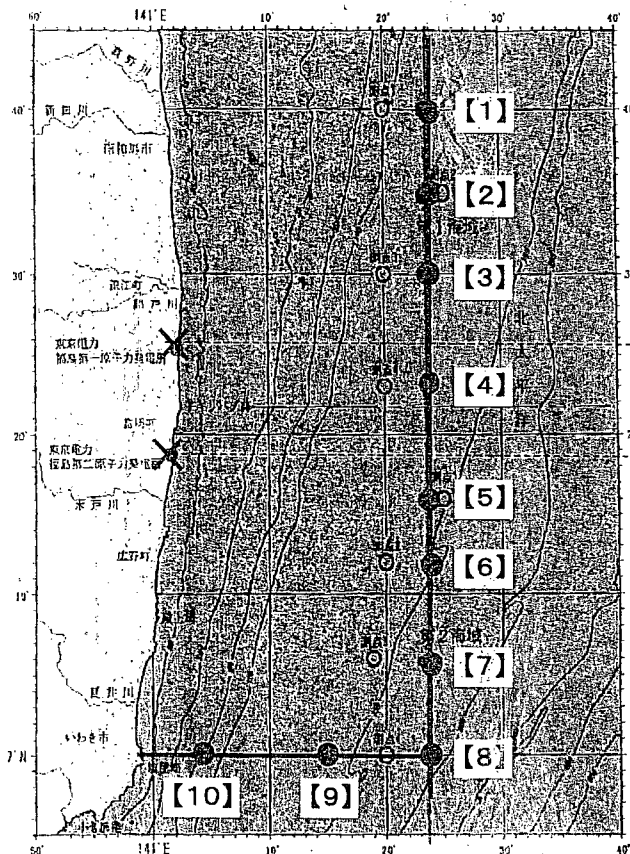
海上の空間線量率



海上の塵中の放射能濃度

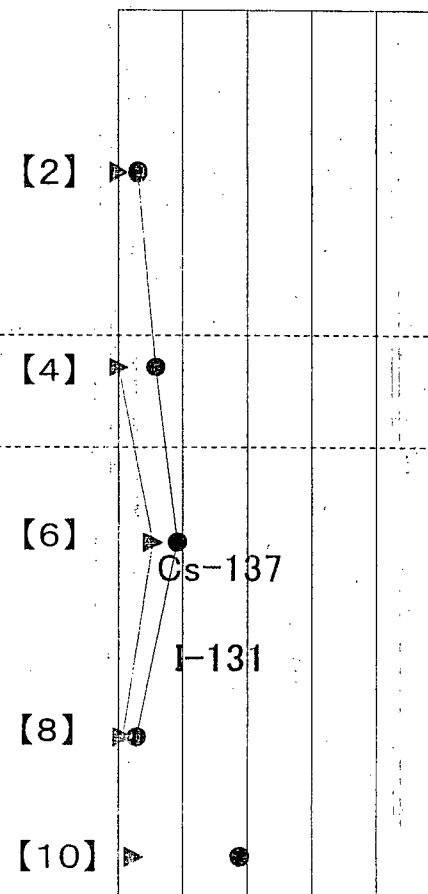
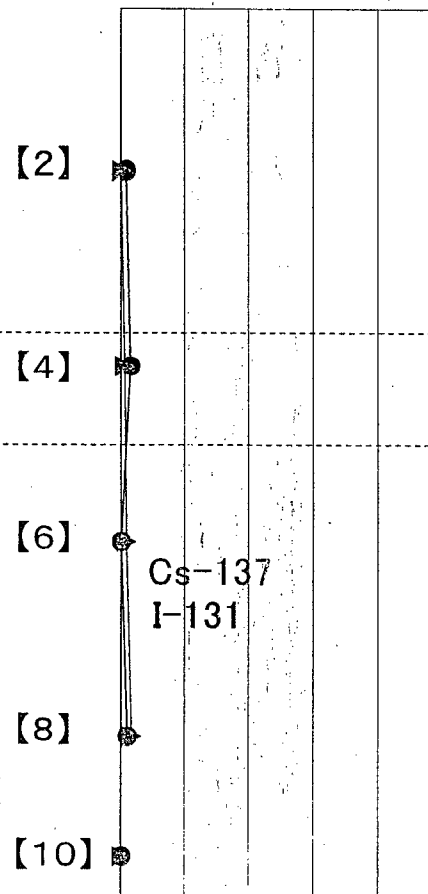


海域モニタリング結果(平成23年4月3日採水)



(採水深度:下層)

(採水深度:表層)



0 20 40 60 80 100
海水中の放射能濃度(Bq/L)

0 20 40 60 80 100
海水中の放射能濃度(Bq/L)

福島第一原子力発電所の20km以遠のモニタリング結果について

平成23年4月4日 19時00分現在
文 部 科 学 省

○文部科学省が集計した結果 注)太下線データが今回追加分

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【1】 (約60km北西)	4月4日8時40分	0.9 *2	降雨なし	日本原子力研究開発機構
測定エリア【2】 (約55km北西)	4月4日9時16分	3.5 *2	降雨なし	日本原子力研究開発機構
測定エリア【3】 (約45km北西)	4月4日10時00分	3.1 *2	降雨なし	日本原子力研究開発機構
測定エリア【4】 (約50km北西)	4月4日9時29分	1.5 *2	降雨なし	文部科学省
測定エリア【5】 (約45km北)	4月4日10時47分	0.9 *2	降雨なし	日本原子力研究開発機構
測定エリア【6】 (約45km北)	4月4日11時13分	1.2 *2	降雨なし	日本原子力研究開発機構
測定エリア【7】 (約45km北)	4月4日11時28分	1.2 *2	降雨なし	日本原子力研究開発機構
測定エリア【11】 (約40km北西)	4月4日9時48分	1.6 *2	降雨なし	文部科学省
測定エリア【15】 (約35km西)	4月4日11時08分	1.7 *2	降雨なし	文部科学省
測定エリア【20】 (約45km北西)	4月4日10時10分	0.6 *2	降雨なし	文部科学省
測定エリア【31】 (約30km西北西)	4月4日10時16分	9.8 *2	降雨なし	日本原子力研究開発機構
測定エリア【32】 (約30km北西)	4月4日10時44分	32.7 *2	降雨なし	日本原子力研究開発機構
測定エリア【33】 (約30km北西)	4月4日11時06分	18.6 *2	降雨なし	日本原子力研究開発機構

- *1 GM(ガイガーミュラー計測管)における値
- *2 電離箱における値
- *3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- *4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【34】 (約30km北西)	4月4日12時48分	6.5 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【36】 (約40km北西)	4月4日9時48分	5.2 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【37】 (約50km北西)	4月4日9時51分	4.2 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【38】 (約35km南)	4月4日12時11分	1.0 ^{*2}	降雨なし	文部科学省
測定エリア【39】 (約45km北)	4月4日10時23分	1.3 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【41】 (約20km西)	4月4日13時15分	0.9 ^{*2}	降雨なし	電力会社
測定エリア【41】 (約20km西)	4月4日9時45分	0.9 ^{*2}	降雨なし	電力会社
測定エリア【42】 (約30km西)	4月4日13時10分	1.1 ^{*2}	降雨なし	電力会社
測定エリア【42】 (約30km西)	4月4日9時50分	1.1 ^{*2}	降雨なし	電力会社
測定エリア【43】 (約20km南西)	4月4日14時45分	0.4 ^{*2}	降雨なし	電力会社
測定エリア【43】 (約20km南西)	4月4日10時45分	0.4 ^{*2}	降雨なし	電力会社
測定エリア【44】 (約30km南)	4月4日13時00分	1.0 ^{*2}	降雨なし	電力会社
測定エリア【44】 (約30km南)	4月4日10時00分	1.2 ^{*2}	降雨なし	電力会社
測定エリア【45】 (約20km南)	4月4日13時42分	1.7 ^{*2}	降雨なし	電力会社
測定エリア【45】 (約20km南)	4月4日10時18分	1.7 ^{*2}	降雨なし	電力会社
測定エリア【46】 (約30km北西)	4月4日14時00分	5.7 ^{*2}	降雨なし	電力会社
測定エリア【46】 (約30km北西)	4月4日10時30分	5.8 ^{*2}	降雨なし	電力会社
測定エリア【51】 (約40km南西)	4月4日13時31分	0.2 ^{*3}	降雨なし	福島県
測定エリア【51】 (約40km南西)	4月4日10時36分	0.3 ^{*3}	降雨なし	福島県

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【52】 (約40km西)	4月4日14時08分	0.3 ^{*3}	降雨なし	福島県
測定エリア【52】 (約40km西)	4月4日11時18分	0.3 ^{*3}	降雨なし	福島県
測定エリア【61】 (約40km北西)	4月4日14時19分	6.1 ^{*3}	降雨なし	福島県
測定エリア【61】 (約40km北西)	4月4日12時26分	6.1 ^{*3}	降雨なし	福島県
測定エリア【62】 (約40km北西)	4月4日14時16分	7.1 ^{*3}	降雨なし	福島県
測定エリア【62】 (約40km北西)	4月4日11時34分	7.2 ^{*3}	降雨なし	福島県
測定エリア【63】 (約45km北西)	4月4日14時38分	2.8 ^{*3}	降雨なし	福島県
測定エリア【63】 (約45km北西)	4月4日10時36分	2.4 ^{*3}	降雨なし	福島県
測定エリア【71】 (約25km南)	4月4日13時11分	1.2 ^{*2}	降雨なし	文部科学省
測定エリア【71】 (約25km南)	4月4日8時19分	1.3 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【72】 (約30km南)	4月4日12時48分	1.5 ^{*2}	降雨なし	文部科学省
測定エリア【72】 (約30km南)	4月4日8時54分	0.9 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【73】 (約35km南)	4月4日12時28分	1.1 ^{*2}	降雨なし	文部科学省
測定エリア【73】 (約35km南)	4月4日9時11分	0.5 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【74】 (約35km南)	4月4日11時24分	0.6 ^{*2}	降雨なし	文部科学省
測定エリア【74】 (約35km南)	4月4日7時32分	0.3 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【75】 (約45km南)	4月4日10時48分	0.7 ^{*2}	降雨なし	文部科学省
測定エリア【75】 (約45km南)	4月4日7時05分	0.2 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【76】 (約20km南西)	4月4日12時11分	0.7 ^{*2}	降雨なし	警察(NBC対策部隊)

- * 1 GM(ガイガーミュラー計測管)における値
- * 2 電離箱における値
- * 3 NaI(ヨウ化ナトリウム)シンチレータにおける値
- * 4 測定時間内における測定値の変動範囲

場所(福島第1発電所からの距離)	測定日時	数値(マイクロシーベルト/時) (記載のない限り屋外)	天候	実施者
測定エリア【77】 (約25km南西)	4月4日11時55分	1.5 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【78】 (約45km北西)	4月4日7時52分	1.2 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【79】 (約30km北西)	4月4日11時44分	15.4 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【79】 (約30km北西)	4月4日10時27分	13.5 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【80】 (約25km北)	4月4日13時02分	0.7 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【80】 (約25km北)	4月4日11時57分	0.6 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【81】 (約30km北西)	4月4日8時55分	27.4 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【83】 (約20km北西)	4月4日12時29分	57.0 ^{*2}	降雨なし	日本原子力研究開発機構
測定エリア【83】 (約20km北西)	4月4日10時42分	51.5 ^{*2}	降雨なし	警察(NBC対策部隊)
測定エリア【84】 (約40km南西)	4月4日10時17分	0.4 ^{*2}	降雨なし	文部科学省
測定エリア【85】 (約60km北西)	4月4日14時00分	0.7 ^{*2}	降雨なし	防衛省
測定エリア【85】 (約60km北西)	4月4日6時00分	0.6 ^{*2}	降雨なし	防衛省
測定エリア【86】 (約55km西)	4月4日14時00分	1.0 ^{*2}	降雨なし	防衛省
測定エリア【86】 (約55km西)	4月4日6時00分	1.0 ^{*2}	降雨なし	防衛省
測定エリア【87】 (約30km西南西)	4月4日14時00分	1.2 ^{*2}	降雨なし	防衛省
測定エリア【87】 (約30km西南西)	4月4日6時00分	1.0 ^{*2}	降雨なし	防衛省

	都道府県名	4月3日							4月4日							過去の平常値の範囲
		17-18	18-19	19-20	20-21	21-22	22-23	23-24	0-1	1-2	2-3	3-4	4-5	5-6	6-7	
1	北海道(札幌市)	0.032	0.030	0.029	0.029	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.02~0.105
2	青森県(青森市)	0.027	0.027	0.027	0.027	0.027	0.027	0.029	0.032	0.028	0.028	0.027	0.027	0.027	0.027	0.017~0.102
3	岩手県(盛岡市)	0.025	0.024	0.025	0.025	0.025	0.024	0.025	0.025	0.025	0.026	0.025	0.025	0.025	0.026	0.014~0.084
4	宮城県(仙台市)	0.079	0.078	0.076	0.076	0.075	0.075	0.075	0.074	0.073	0.073	0.073	0.072	0.073	0.072	0.0176~0.0513
5	秋田県(秋田市)	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.034	0.034	0.034	0.022~0.086
6	山形県(山形市)	0.060	0.061	0.061	0.060	0.061	0.061	0.061	0.061	0.061	0.061	0.060	0.061	0.060	0.060	0.025~0.082
7	福島県(双葉郡)															0.037~0.071
8	茨城県(水戸市)	0.174	0.174	0.173	0.173	0.174	0.173	0.173	0.173	0.173	0.172	0.172	0.172	0.172	0.171	0.036~0.056
9	栃木県(宇都宮市)	0.083	0.084	0.084	0.084	0.084	0.083	0.084	0.083	0.084	0.083	0.084	0.083	0.084	0.084	0.030~0.067
10	群馬県(前橋市)	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.047	0.017~0.045
11	埼玉県(さいたま市)	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.072	0.031~0.060
12	千葉県(市原市)	0.064	0.065	0.064	0.065	0.064	0.065	0.064	0.064	0.065	0.064	0.064	0.065	0.065	0.064	0.022~0.044
13	東京都(新宿区)	0.091	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.091	0.090	0.090	0.090	0.028~0.079
14	神奈川県(茅ヶ崎市)	0.063	0.064	0.064	0.064	0.063	0.063	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.035~0.069
15	新潟県(新潟市)	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.031~0.153
16	富山県(射水市)	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.029~0.147
17	石川県(金沢市)	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.0291~0.1275
18	福井県(福井市)	0.045	0.045	0.045	0.045	0.045	0.046	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.046	0.032~0.097
19	山梨県(甲府市)	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.043	0.044	0.043	0.044	0.044	0.044	0.040~0.064
20	長野県(長野市)	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.0299~0.0974
21	岐阜県(各務原市)	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.061	0.061	0.061	0.061	0.061	0.057~0.110
22	静岡県(静岡市)	0.039	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.0281~0.0765
23	愛知県(名古屋)	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.040	0.040	0.040	0.040	0.035~0.074
24	三重県(四日市市)	0.045	0.046	0.046	0.045	0.045	0.045	0.045	0.046	0.045	0.046	0.045	0.045	0.045	0.045	0.0416~0.0789
25	滋賀県(大津市)	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.031~0.061
26	京都府(京都市)	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.039	0.039	0.040	0.040	0.040	0.033~0.087
27	大阪府(大阪市)	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042~0.061
28	兵庫県(神戸市)	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035~0.076
29	奈良県(奈良市)	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.049	0.049	0.046~0.08
30	和歌山県(和歌山市)	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.032	0.032	0.031~0.056
31	鳥取県(東伯郡)	0.062	0.062	0.062	0.063	0.063	0.062	0.063	0.063	0.063	0.063	0.063	0.063	0.062	0.062	0.036~0.11
32	島根県(松江市)	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.033~0.079
33	岡山県(岡山市)	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.050	0.050	0.051	0.050	0.051	0.043~0.104
34	広島県(広島市)	0.046	0.046	0.047	0.046	0.046	0.047	0.046	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.035~0.069
35	山口県(山口市)	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.093	0.092	0.093	0.093	0.094	0.094	0.094	0.084~0.128
36	徳島県(徳島市)	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.037~0.067
37	香川県(高松市)	0.059	0.054	0.059	0.062	0.058	0.053	0.062	0.063	0.059	0.055	0.068	0.068	0.057	0.059	0.051~0.077
38	愛媛県(松山市)	0.047	0.047	0.047	0.048	0.047	0.047	0.048	0.048	0.047	0.047	0.047	0.048	0.048	0.048	0.045~0.074
39	高知県(高知市)	0.025	0.025	0.024	0.024	0.025	0.025	0.025	0.025	0.024	0.024	0.025	0.024	0.024	0.024	0.023~0.076
40	福岡県(太宰府市)	0.036	0.036	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.036	0.034~0.079
41	佐賀県(佐賀市)	0.040	0.039	0.039	0.039	0.040	0.039	0.039	0.039	0.039	0.040	0.040	0.040	0.040	0.040	0.037~0.086
42	長崎県(大村市)	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.027~0.069
43	熊本県(宇土市)	0.027	0.027	0.027	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.027	0.028	0.027	0.028	0.021~0.067
44	大分県(大分市)	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.048~0.085
45	宮崎県(宮崎市)	0.027	0.027	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.0243~0.0664
46	鹿児島県(鹿児島市)	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.0306~0.0943
47	沖縄県(うるま市)	0.021	0.021	0.020	0.021	0.021	0.021	0.021	0.022	0.021	0.022	0.022	0.021	0.021	0.023	0.0133~0.0575

*宮城県では、可搬型モニタリングポストによる測定。

*福島県では、モニタリングポスト周辺の空間線量が高いことから測定が困難であるが、その分のデータはモニタリングカーを用いて測定。
別資料の「福島第一原子力発電所の20km以遠のモニタリング結果について(4月4日19:00現在)」参照。

*空欄は機器点検等のための欠測等

*本データは、1μGy/h(マイクログレイ毎時)=1μSv/h(マイクロシーベルト毎時)と換算して算出

*文部科学省が各都道府県等からの報告に基づき作成

	都道府県名	4月4日										過去の平常値の範囲
		7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	
1	北海道(札幌市)	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.02~0.105
2	青森県(青森市)	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.017~0.102
3	岩手県(盛岡市)	0.025	0.025	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.025	0.014~0.084
4	宮城県(仙台市)	0.074	0.077	0.081	0.082	0.081	0.081	0.081	0.081	0.080	0.077	0.0176~0.0513
5	秋田県(秋田市)	0.035	0.036	0.036	0.035	0.034	0.034	0.034	0.034	0.034	0.034	0.022~0.086
6	山形県(山形市)	0.060	0.060	0.060	0.060	0.060	0.060	0.050	0.060	0.060	0.060	0.025~0.082
7	福島県(双葉郡)											0.037~0.071
8	茨城県(水戸市)	0.171	0.171	0.171	0.171	0.170	0.170	0.170	0.169	0.169	0.169	0.036~0.056
9	栃木県(宇都宮市)	0.083	0.083	0.082	0.082	0.082	0.082	0.082	0.081	0.082	0.082	0.030~0.067
10	群馬県(前橋市)	0.047	0.047	0.046	0.047	0.046	0.046	0.046	0.046	0.046	0.046	0.017~0.045
11	埼玉県(さいたま市)	0.072	0.072	0.072	0.071	0.072	0.071	0.071	0.071	0.071	0.071	0.031~0.060
12	千葉県(市原市)	0.064	0.064	0.063	0.063	0.062	0.063	0.063	0.062	0.062	0.063	0.022~0.044
13	東京都(新宿区)	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.089	0.089	0.028~0.079
14	神奈川県(茅ヶ崎市)	0.063	0.063	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.035~0.069
15	新潟県(新潟市)	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.031~0.153
16	富山県(射水市)	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.048	0.029~0.147
17	石川県(金沢市)	0.047	0.047	0.047	0.047	0.046	0.047	0.046	0.047	0.046	0.047	0.0291~0.1275
18	福井県(福井市)	0.046	0.045	0.045	0.045	0.045	0.044	0.045	0.045	0.045	0.045	0.032~0.097
19	山梨県(甲府市)	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.042	0.043	0.040~0.064
20	長野県(長野市)	0.045	0.044	0.043	0.043	0.044	0.043	0.043	0.043	0.043	0.043	0.0299~0.0974
21	岐阜県(各務原市)	0.060	0.061	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.057~0.110
22	静岡県(静岡市)	0.037	0.037	0.038	0.039	0.041	0.041	0.039	0.039	0.039	0.038	0.0281~0.0765
23	愛知県(名古屋市)	0.040	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.038	0.039	0.035~0.074
24	三重県(四日市市)	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.046	0.046	0.045	0.0416~0.0789
25	滋賀県(大津市)	0.033	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.031~0.061
26	京都府(京都市)	0.040	0.039	0.038	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.033~0.087
27	大阪府(大阪市)	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.041	0.041	0.041	0.042~0.061
28	兵庫県(神戸市)	0.036	0.036	0.036	0.035	0.035	0.035	0.035	0.036	0.035	0.035	0.035~0.076
29	奈良県(奈良市)	0.049	0.048	0.047	0.047	0.047	0.047	0.046	0.047	0.046	0.046	0.046~0.08
30	和歌山県(和歌山市)	0.032	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.030	0.031~0.056
31	鳥取県(東伯郡)	0.062	0.062	0.063	0.063	0.062	0.062	0.062	0.063	0.062	0.062	0.036~0.11
32	島根県(松江市)	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.033~0.079
33	岡山県(岡山市)	0.050	0.049	0.049	0.048	0.048	0.048	0.047	0.048	0.048	0.048	0.043~0.104
34	広島県(広島市)	0.047	0.047	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.035~0.069
35	山口県(山口市)	0.093	0.093	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.084~0.128
36	徳島県(徳島市)	0.038	0.036	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.037	0.037~0.067
37	香川県(高松市)	0.067	0.055	0.054	0.054	0.054	0.054	0.055	0.054	0.054	0.054	0.051~0.077
38	愛媛県(松山市)	0.048	0.047	0.047	0.047	0.046	0.046	0.047	0.046	0.047	0.047	0.045~0.074
39	高知県(高知市)	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.024	0.024	0.024	0.023~0.076
40	福岡県(太宰府市)	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035	0.036	0.034~0.079
41	佐賀県(佐賀市)	0.040	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.037~0.086
42	長崎県(大村市)	0.030	0.029	0.029	0.029	0.029	0.028	0.029	0.028	0.029	0.029	0.027~0.069
43	熊本県(宇土市)	0.027	0.027	0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.021~0.067
44	大分県(大分市)	0.049	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.048~0.085
45	宮崎県(宮崎市)	0.027	0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.0243~0.0664
46	鹿児島県(鹿児島市)	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.035	0.035	0.035	0.0306~0.0943
47	沖縄県(うるま市)	0.023	0.024	0.024	0.022	0.021	0.022	0.023	0.023	0.023	0.022	0.0133~0.0575

*宮城県では、可搬型モニタリングポストによる測定。

*福島県では、モニタリングポスト周辺の空間線量が高いことから測定が困難であるが、その分のデータはモニタリングカーを用いて測定。

*別資料の「福島第一原子力発電所の20km以遠のモニタリング結果について(4月4日19:00現在)」参照。

*空欄は機器点検等のための欠測等

*本データは、 1μ Gy/h(マイクログレイ毎時)= μ Sv/h(マイクロシーベルト毎時)と換算して算出

*文部科学省が各都道府県等からの報告に基づき作成

From: ET05 Hoc
Sent: Wednesday, March 23, 2011 1:54 PM
To: Hannah, Roger
Subject: FW: Photos
Attachments: image001.jpg

From: LIA06 Hoc
Sent: Wednesday, March 23, 2011 1:08 PM
To: ET05 Hoc
Subject: FW: Photos

Marissa.. this may be of interest to ET.. Mike

Liaison Team Director
U.S. Nuclear Regulatory Commission
Operations Center

From: Sloan, Scott
Sent: Wednesday, March 23, 2011 12:58 PM
To: LIA06 Hoc
Subject: FW: Photos

Mike,

Here is a link to some photos taken during offload of one of the C-17s. Please note that there are 2 TV cameras shooting the offload – not sure how interested PAO would be to know that. Please let me know if you need me to take any action.

<http://www.photoshop.com/users/dylanmonaghan/albums/24a3cdd9d6fc40d99b64ba13ae0be080>

Thanks,

Scott Sloan

Project Manager
US Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Research & Test Reactor Projects Branch
(301) 415-1619

From: Hart, James V
Sent: Wednesday, March 23, 2011 03:28 PM

Here are some photos of the off-load in Japan. More importantly, here is a quote from Bill Cook of the NRC that sums up the success of the mission and a little payback for the hard work;

"Just returned from Yokota AFB and believe it was a huge success. TEPCO seemed enthusiastic in their very reserved way. but clearly recognized the capacity, flexibility, and redundancy of the equipment provided. In

RRR/9/11

addition, the Aussies (three representatives from Resource Equipment LTD) were outstanding in presenting and explaining the multiple uses and capabilities of their equipment. They have made themselves available to set-up and train whom ever TEPCo would like operating the equipment. I believe their availability is approximately one week or so. With respect to the equipment, it is much more capable than the simple one-line sketch depicts, and how. In my opinion, Uncle Sam received his money's worth and more."

Regards,

James Hart
Global Procurement Operations
Mining and Metals - Brisbane Australia
Tel: +61-07-3167-5855
Mob: (b)(6)
Mailstop: Wickham/3.79

From: Chris Whale [mailto:CWhale@rel.com.au]
Sent: Wednesday, March 23, 2011 1:32 PM
To: Hart, James V
Subject: Fwd: Photos

Off loading in Japan

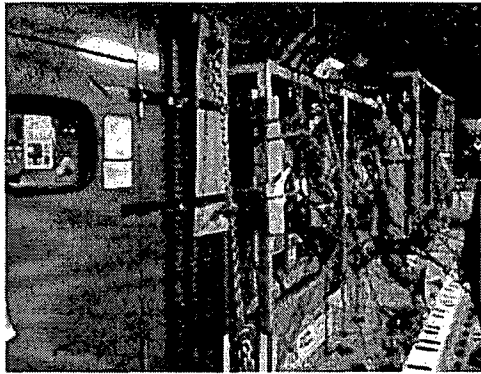
Regards

Chris Whale
Begin forwarded message:

From: "Mark Lagemann" <MLagemann@rel.com.au>
Date: 23 March 2011 10:57:53 AM GMT+10:00
To: "Chris Whale" <CWhale@rel.com.au>, "Jamie Cullen" <JCullen@rel.com.au>
Subject: Fwd: Photos

Sent from my iPhone

Photos of the Bechtel Pumps are available online. Please click the link below.



Australian C-17 Delivery of Bechtel Pumps. Click below to see images from 22 Mar 2011.

[View album](#)

Bechtel Contracted Pumps from Perth flown in on Australian C-17 as photographed on 22 Mar 2011 at Yokota Air Base.

D.Monaghan sends

Dylan Monaghan, Lt Col, USAF

US Embassy Liaison

At Bilateral Joint Operations Coordination Center

Operation Tomodachi

USFJ Japan, Yokota Air Force Base

(b)(6)

DSN 225-4250

DSN 225-4329

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 7:43 AM
To: Kreuter, Jane
Cc: LIA03 Hoc
Subject: FW: Return travel plans

Jane,

It's Jen and Charlotte. Hi! Could you please do us a favor? Tim Kolb was one of the original Japan Team. (b)(6)
(b)(6) Now he's looking for help on how to fill out a non-eTravel travel voucher. I'm not sure he's traveled for NRC before. Could you help out by finding out who his administrative person is and connecting with him/her to make sure he gets the assistance he needs?

Thanks!!

From: Kolb, Timothy
Sent: Wednesday, March 23, 2011 7:08 AM
To: LIA02 Hoc
Subject: RE: Return travel plans

Information regarding filling out a travel voucher because nothing is in my etravel.

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 6:52 AM
To: Kolb, Timothy
Subject: RE: Return travel plans

What sort of assistance do you need? Is there any specific information you are looking for?

From: Kolb, Timothy
Sent: Wednesday, March 23, 2011 6:49 AM
To: LIA02 Hoc
Subject: RE: Return travel plans

Hello,
I came back early (March 19) due to (b)(6). Who can I contact to get help with my travel orders and submitting my voucher?
Thanks,
Tim Kolb

From: LIA02 Hoc
Sent: Tuesday, March 22, 2011 12:35 PM
To: Liaison Japan
Cc: Matheson, Mary; Mamish, Nader; LIA03 Hoc
Subject: Return travel plans

Good morning NRC Japan Team,

RRR/92

Please advise the Ops Center if any members of the original team plan to remain in Japan beyond March 31. We need this information because evidently you may require supplemental travel orders. Please reply to LIA02 and LIA03 with this information.

Thank you!

International Liaison Desk

From: ET05 Hoc
Sent: Wednesday, March 23, 2011 7:05 AM
To: FOIA Response.hoc Resource
Subject: FW: Media Contact

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

From: Wiggins, Jim
Sent: Tuesday, March 22, 2011 8:31 PM
To: ET05 Hoc
Subject: FW: Media Contact

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

From: OST02 HOC
Sent: Tuesday, March 22, 2011 8:08 PM
To: Wiggins, Jim; Holahan, Patricia; Miller, Chris
Subject: FW: Media Contact

FYI...

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

From: HOO Hoc
Sent: Tuesday, March 22, 2011 8:03 PM
To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC
Subject: FW: Media Contact

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

From: Brenner, Eliot
Sent: Tuesday, March 22, 2011 7:27 PM
To: Brenner, Eliot
Cc: Casto, Chuck; youngjim@state.gov; Chang, Benjamin; Cook, William; Monninger, John; Hannah, Roger; Weber, Michael; ET01 Hoc; HOO Hoc
Subject: RE: Media Contact

All: I am working remotely to try to prep Chuck Casto to do media availability at which I would like him to discuss how (as I understand it) this piece of machinery went from conception among the NRC in Tokyo (happy to be corrected if I am wrong) to a Bechtel design and construction project, with subsequent shipment to Japan. I am not sure we can cook this up today (Tuesday night/Wednesday morning) but if the Embassy (Ben Chang) can put something together on short notice I am all for it.

It was my intention to try to get chuck hooked up for a media availability Thursday after I've had a chance to prep him via email or phone.

RRR/93

If this is getting legs in Japan, perhaps Ben can help us out by setting up a quick availability while I assemble some other quick Japan q/a for chuck for general purposes.

Roger Hannah of the OPA staff has volunteered remotely to be a contact for Bechtel to send calls to.

I need ASAP a short history of the conception/creation of this equipment and its intended purpose.

Eliot

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

From: Weber, Michael
Sent: Tuesday, March 22, 2011 7:13 PM
To: ET01 Hoc; HOO Hoc
Cc: Brenner, Eliot
Subject: Action - Media Contact

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

From: Monninger, John
To: Weber, Michael; LIA02 Hoc; RST01 Hoc; LIA03 Hoc
Cc: Casto, Chuck; Dorman, Dan; 'YoungJM@state.gov' <YoungJM@state.gov>; Cook, William
Sent: Tue Mar 22 18:16:41 2011
Subject: Fw: Media Contact

ET

See below regarding interest in US/NRC/INPO/Bechtel activities in Australia. Do you want coordinated response with NRC OPA with the Embassy here?

John M

John Monninger

(b)(6)

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

From: Rogers, Ed <CEROGER1@Bechtel.com>
To: Young, Joseph M <YoungJM@state.gov>; Merchant, Ned <cemercha@bechtel.com>; (b)(6)
(b)(6) Monninger, John
Cc: Thomas, Eugene <ewthomas@bechtel.com>; (b)(6)
(b)(6) Daw, Martyn <mndaw@bechtel.com>
Sent: Tue Mar 22 14:46:47 2011
Subject: Media Contact

Joe, I am sending this to you because I am not sure who to reach out to on the following request. That said, anyone on the distribution can answer.

Our folks in Australia have apparently been contacted by several media sources (they used the words inundated) making inquiries on the work we are doing for you all. We would appreciate an appropriate media contact

to forward these calls too.

Please let me know soonest.

Ed Rogers

Office (240) 379-3179

Cell (b)(6)

From: Jackson, Karen
Sent: Wednesday, March 23, 2011 1:30 PM
To: LIA02 Hoc; LIA03 Hoc; ET02 Hoc
Subject: FW: Two new team members
Signed By: karen.jackson@nrc.gov

fyi

...karen jackson

Emergency Response Coordinator
DPR/NSIR/USNRC
Office: 301-415-6398
Cell: (b)(6)
MS: T-4L7
e-mail: karen.jackson@nrc.gov

From: Jackson, Karen
Sent: Wednesday, March 23, 2011 1:30 PM
To: Heard, Robert
Subject: FW: Two new team members

Please see below the response to my question regarding laptops.

...karen jackson

Emergency Response Coordinator
DPR/NSIR/USNRC
Office: 301-415-6398
Cell: (b)(6)
MS: T-4L7
e-mail: karen.jackson@nrc.gov

From: Emche, Danielle
Sent: Wednesday, March 23, 2011 1:23 PM
To: Jackson, Karen; LIA02 Hoc; Stransky, Robert
Cc: LIA03 Hoc; Stahl, Eric
Subject: RE: Two new team members

Thank you, Eric and I have decided that we will not need to bring an NRC laptop.

From: Jackson, Karen
Sent: Wednesday, March 23, 2011 1:21 PM
To: LIA02 Hoc; Stransky, Robert
Cc: LIA03 Hoc; Stahl, Eric; Emche, Danielle
Subject: RE: Two new team members
Importance: High

Does Eric and Danielle need laptops as well (OIS would like to know)?

...karen jackson

Emergency Response Coordinator
DPR/NSIR/USNRC
Office: 301-415-6398
Cell: (b)(6)

RRR/94

MS: T-4L7
e-mail: karen.jackson@nrc.gov

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 12:26 PM
To: Stransky, Robert
Cc: Jackson, Karen; LIA03 Hoc; Stahl, Eric; Emche, Danielle
Subject: Two new team members

Bob,

Here is an update on our new Japan team. Danielle Emche from OIP will be departing for Japan on Saturday (3/26) and Eric Stahl from OIP will depart on Monday (3/28). Danielle's blackberry number is (b)(6) and Eric's is (b)(6). Please let them know whether their blackberries are equipped to work in Japan or whether they will need new phones. Thanks!

From: RMTPACTSU_ELNRC <RMTPACTSU_ELNRC@ofda.gov>
Sent: Thursday, March 24, 2011 3:54 PM
To: LIA02 Hoc; LIA03 Hoc
Subject: FYI: Casto TA Amendment 1-Japan-March 2011
Attachments: Casto-TA Amendment 1-Japan-March 2011.pdf

FYI

From: Friedman, Ara
Sent: Thursday, March 24, 2011 3:52 PM
To: (b)(6)
Cc: RMTPACTSU_AC; RMTPACTSU_ELNRC; Johnson, Natalya
Subject: Casto TA Amendment 1-Japan-March 2011

Hi Chuck,

Please see attached for your approved TA Amendment authorizing your stay in Japan and your return ticket home. You should have already received a copy of your e-ticket from Manassas Travel (USAID's Travel Agency). We will send you instructions on how to voucher next week. In the meantime, gather all your receipts for expenses over \$75. Please let us know if you have any questions and have a safe flight home!

Ara Friedman
Program Support Specialist
USAID/Office of Foreign Disaster Assistance
529 14th Street NW, Suite 700
Washington, D.C. 20045
(202) 661-9308

(b)(6) (bb)

RRR/95

E2 Travel Authorization

24 Mar 2011 @ 09:07:00

PRIVACY ACT NOTICE: The following information is provided to comply with the Privacy Act of 1974(P.S. 93-579). The Information requested on the form is required under the provisions of 5 U.S.C. Chapter 57(as amended), Executive Orders 11609 of July 22, 1971, and 1102 of March 27, 1962, for the purpose of facilitating authorization action and the request for advance of funds for travel and other expenses to be incurred under administrative. The information contained in this form will be used by the Federal agency officers and employees who have a need for such information in the performance of their duties. Information will be transferred to appropriate Federal, State, local, or foreign agencies when relevant to civil, criminal or regulatory investigations, or prosecutions. Failure to provide the information required will result in delay or suspension of the processing of this form.

Authorization Information

Document Number	Trip Status	Authorization Id	Type of Authorization
9911A1736	Open Voucher	2832023-1	Trip-by-Trip Authorization

Traveler	Official Duty Station	Title	Travel Charge Card Holder
CHARLES CASTO	ATLANTA, GA	INVITATIONAL	No

Mailing Address	Office Phone	Home Phone
1300 Pennsylvania Avenue NW Washington, DC 20045 US	202-712-0039	N/A

Type of Travel	Travel Purpose	Estimated Dates of Travel
Temporary Duty	Invitational Travel: Serve on Japan/Pacific Tsunami DART	2011-03-14 thru 2011-04-14

Authorized Itinerary

Cabin Class: Coach

Arrive	Depart	Time	Location	Car	Hotel	Mode	Notes
2011-03-14	2011-03-14	N/A	ATLANTA, GA	NONE	No	CP	
2011-03-16	2011-04-14	N/A	TOKYO CITY, JPN	NONE	No	CP	Temporary Duty, LDG \$231, M & IE \$209
2011-04-14	2011-04-14	N/A	ATLANTA, GA	NONE	No	NONE	

PA-C = Government auto available and committed
 PA-NA = Government auto not available
 PA-NC = Government auto available and not committed

Authorization Expense Totals

Transport	Lodging	Meals & Incidentals	Car Rental	Local Transport	POV	Misc	Grand Total
3,500.00	0.00	6,583.50	0.00	0.00	0.00	1,078.50	11,162.00

Authorization Accounting Information

Accounting String	Object Code	CBA Amount	Travel Charge Card Amount	Traveler Amount	Auth Amount

Accounting String	Object Code	CBA Amount	Travel Charge Card Amount	Traveler Amount	Auth Amount
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Segment Names: BBFY/EBFY/Fund/Treasury Symbol/Operating Unit/Program Area/Distribution Code/Program Element/Program Sub-Element/Team/Division/Benefiting Geo Area/Operating Unit Defined/Sub-Object Code/Program Target/Post Code/Bureau Code/Accounting Template/Commitment Document Type/Commitment Document No/Commitment Line No/Bilateral Obl Doc Type/Bilateral Obl Doc No/Bilateral Obl Line No

2011/NA/FD-X11/72X1035/DCHA/OFDA/A22/488-W/A089/NA/NA/488/NA/2100801/NA/799/NA/2011 DCHA PROGRAM FUNDS/TQ/00011TQ005211/1/NA/NA/NA	0.00	0.00	11162.00	11162.00
	0.00	0.00	11162.00	11162.00

Authorization Expense Summary

Location	Expense Category	Expense Type	Amount	Expense Reimbursement Type
TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	6,583.50	Actual Lodging / Prescribed Meals
TOKYO CITY, JPN	Misc	Other Reimbursable Expenses Incurred	1,078.50	Actual Lodging / Prescribed Meals
TOKYO CITY, JPN	Transport	Airfare	3,500.00	Actual Lodging / Prescribed Meals

Authorization Expense Lines

Line #	Date	Location	Expense Category	Expense Type	Claim Amt	Expense Reimbursement Type	Reason
1	2011-03-14	TOKYO CITY, JPN	Misc	Voucher Transaction Fee	14.00	Actual Lodging / Prescribed Meals	VTF
2	2011-03-15	TOKYO CITY, JPN	Misc	Other Reimbursable Expenses Incurred	1,000.60	Actual Lodging / Prescribed Meals	All authorized expenses incurred on trip
3	2011-03-15	TOKYO CITY, JPN	Misc	TMC Fee	63.90	Actual Lodging / Prescribed Meals	Manassas Ticketing fees
4	2011-03-15	TOKYO CITY, JPN	Transport	Airfare	3,500.00	Actual Lodging / Prescribed Meals	
5	2011-03-15	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	156.75	Actual Lodging / Prescribed Meals	
6	2011-03-16	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
7	2011-03-17	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
8	2011-03-18	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
9	2011-03-19	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
10	2011-03-20	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
11	2011-03-21	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
12	2011-03-22	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
13	2011-03-23	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	

Line #	Date	Location	Expense Category	Expense Type	Claim Amt	Expense Reimbursement Type	Reason
14	2011-03-24	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
15	2011-03-25	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
16	2011-03-26	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
17	2011-03-27	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
18	2011-03-28	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
19	2011-03-29	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
20	2011-03-30	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
21	2011-03-31	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
22	2011-04-01	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
23	2011-04-02	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
24	2011-04-03	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
25	2011-04-04	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
26	2011-04-05	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
27	2011-04-06	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
28	2011-04-07	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
29	2011-04-08	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
30	2011-04-09	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
31	2011-04-10	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
32	2011-04-11	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
33	2011-04-12	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
34	2011-04-13	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	209.00	Actual Lodging / Prescribed Meals	
35	2011-04-14	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	365.75	Actual Lodging / Prescribed Meals	

Authorization Remarks

Remark Details

Authorization Remarks - Trip ID: 2832023

Arranger - LISA M SCHAEFER

March 16, 2011 at 04:05 PM

Purpose: INVITATIONAL TRAVEL: Pacific Tsunami DART

Remark Details

A Lodging Plus per diem is authorized at the maximum daily rates. Lodging receipts are required. On the first and last days of travel, 75 percent of M and IE is authorized.

The following expenses are authorized: bottled water, business calls/Internet, airport tax, ticket purchase, military transport, hotel tax, excess baggage, ATM/Travelers Check fees, most cost effective transportation - metro, shuttle, taxi, etc., in-country/regional travel, aircraft charter, hotel business center, and visa fees.

Traveler is authorized up to two checked bags, not to exceed airline weight allowance per bag. Charges levied by carriers on the first and/or second bag (within the airline weight limits) are allowable, excluding any charges levied as a result of excess weight. Receipts are required for any baggage payments.

Please charge airfare to the centrally-funded USAID/W travel Card.

Travel on military transport is Authorized -Air, Water and Ground-. On base billeting is authorized. Purchase of BX/PX, fuel and commissary privileges are authorized.

Administrative approval is given for authorized expenses incurred prior to this authorization.

A travel voucher must be submitted within 5 business days following completion of travel.

Receipts are required for all other expenses in excess of \$75.00.

Date	Action
16MAR11 Wed 04:03PM	Booked Airfare/Common Carrier rate \$0.00 changed to \$3500.00 by SCHAEFER, LISA M for CASTO, CHARLES
16MAR11 Wed 04:06PM	Submitted to DCHA-OFDA-PS-LEVEL 1 approver CHAN, CAROL by LISA M SCHAEFER for CHARLES CASTO
16MAR11 Wed 04:06PM	Reservation is optional, LISA M SCHAEFER for CHARLES CASTO sent to approver with no Reservation.
16MAR11 Wed 04:06PM	Status changed to: Pending Authorization Approval
16MAR11 Wed 04:07PM	SCHAEFER, LISA M unlocked document: No approver specified.
16MAR11 Wed 04:12PM	PEYREBRUNE, JOHN C locked document for Approval.
16MAR11 Wed 04:12PM	Approved By DCHA-OFDA-PS-LEVEL 1 Approver PEYREBRUNE, JOHN C
16MAR11 Wed 04:12PM	Submitted to DCHA-OFDA-TRAVEL SPECIALIST by the System
16MAR11 Wed 04:31PM	SCHAEFER, LISA M locked document for Approval.
16MAR11 Wed 04:32PM	Revised by Approver LISA M SCHAEFER Reason: Booked itinerary Must match travel authorization.
16MAR11 Wed 04:32PM	Status changed to: Revised Authorization
16MAR11 Wed 04:39PM	Submitted to DCHA-OFDA-PS-LEVEL 1 approver CHAN, CAROL by LISA M SCHAEFER for CHARLES CASTO
16MAR11 Wed 04:39PM	Reservation is optional, LISA M SCHAEFER for CHARLES CASTO sent to approver with no Reservation.
16MAR11 Wed 04:39PM	Status changed to: Pending Authorization Approval
16MAR11 Wed 04:39PM	SCHAEFER, LISA M unlocked document: No approver specified.
16MAR11 Wed 04:44PM	BUCKLEY, SARAH D locked document for Approval.
16MAR11 Wed 04:46PM	Approved By DCHA-OFDA-PS-LEVEL 1 Approver BUCKLEY, SARAH D
16MAR11 Wed 04:46PM	Submitted to DCHA-OFDA-TRAVEL SPECIALIST by the System
16MAR11 Wed 05:15PM	SCHAEFER, LISA M locked document for Approval.
16MAR11 Wed 05:16PM	Approved By DCHA-OFDA-TRAVEL SPECIALIST Approver SCHAEFER, LISA M
16MAR11 Wed 05:16PM	Submitted to M-MS-TRAVEL AND TRANSPORTATION DIVISION by the System
17MAR11 Thu 08:43AM	JOHNSON, GWENDOLYN locked document for Approval.
17MAR11 Thu 11:57AM	Approving Official GWENDOLYN JOHNSON authorized per diem at TOKYO CITY, JPN
17MAR11 Thu 11:57AM	Status changed to: Open Voucher
17MAR11 Thu 11:57AM	Approved By M-MS-TRAVEL AND TRANSPORTATION DIVISION Approver JOHNSON, GWENDOLYN
17MAR11 Thu 11:57AM	Agency successfully notified of event: TripAuthorizationApproved for trip 2832023
17MAR11 Thu 11:57AM	Obligation status changed to: Pending Obligation
17MAR11 Thu 11:57AM	Obligation status changed to: Obligation Accepted
17MAR11 Thu 12:43PM	CHARLES CASTO sent email request to USAID@MANASSASTRAVEL.COM. A copy of the email can be found with attached documents.

Date	Action
17MAR11 Thu 12:43PM	Approval Data Sent to Travel Agent via Email
22MAR11 Tue 02:21PM	Amended to 2832023-1 by LISA M SCHAEFER for CHARLES CASTO
22MAR11 Tue 02:21PM	Status changed to: Revised Authorization
22MAR11 Tue 02:26PM	Submitted to DCHA-OFDA-PS-LEVEL 1 approver CHAN, CAROL by LISA M SCHAEFER for CHARLES CASTO
22MAR11 Tue 02:26PM	Reservation is optional, LISA M SCHAEFER for CHARLES CASTO sent to approver with no Reservation.
22MAR11 Tue 02:26PM	Status changed to: Pending Authorization Approval
22MAR11 Tue 02:27PM	SCHAEFER, LISA M unlocked document: No approver specified.
22MAR11 Tue 02:46PM	TERRY, AMELIA R locked document for Approval.
22MAR11 Tue 02:46PM	Approved By DCHA-OFDA-PS-LEVEL 1 Approver TERRY, AMELIA R
22MAR11 Tue 02:46PM	Submitted to DCHA-OFDA-TRAVEL SPECIALIST by the System
23MAR11 Wed 12:18PM	SCHAEFER, LISA M locked document for Approval.
23MAR11 Wed 12:19PM	Approved By DCHA-OFDA-TRAVEL SPECIALIST Approver SCHAEFER, LISA M
23MAR11 Wed 12:19PM	Submitted to M-MS-TRAVEL AND TRANSPORTATION DIVISION by the System
23MAR11 Wed 12:36PM	JOHNSON, GWENDOLYN locked document for Approval.
23MAR11 Wed 01:24PM	Approving Official GWENDOLYN JOHNSON authorized actual expenses for lodging and prescribed M&IE rate - NTE 300% of per diem at TOKYO CITY, JPN
23MAR11 Wed 01:24PM	Status changed to: Open Voucher
23MAR11 Wed 01:24PM	Approved By M-MS-TRAVEL AND TRANSPORTATION DIVISION Approver JOHNSON, GWENDOLYN
23MAR11 Wed 01:24PM	Agency successfully notified of event: TripAuthorizationApproved for trip 2832023-1
23MAR11 Wed 01:24PM	Obligation status changed to: Pending Obligation
23MAR11 Wed 01:24PM	Obligation status changed to: Obligation Accepted
24MAR11 Thu 09:06AM	CHARLES CASTO sent email request to USAID@MANASSASTRAVEL.COM. A copy of the email can be found with attached documents.
24MAR11 Thu 09:06AM	Approval Data Sent to Travel Agent via Email

Audit/Approver Information

Action	Official	Date / Time
Approved [DCHA-OFDA-PS-LEVEL 1]	TERR0127[TERRY,AMELIA]	2011-03-22
Approved [DCHA-OFDA-TRAVEL SPECIALI]	SCHA9300[SCHAEFER,LISA]	2011-03-23
Approved [M-MS-TRAVEL AND TRANSPORT]	JOHN0664[JOHNSON,GWENDOLYN]	2011-03-23

From: Hoc, PMT12
Sent: Thursday, March 24, 2011 3:10 PM
To: PMT02 Hoc; PMT01 Hoc; PMT03 Hoc
Subject: FW: Modeling Meeting

From: Dunlap, Robert [mailto:Robert.Dunlap@NNSA.Doe.Gov]
Sent: Thursday, March 24, 2011 3:06 PM
To: 'Fetter, Steve'
Cc: Aoki, Steven; nara@llnl.gov; Hoc, PMT12
Subject: Modeling Meeting

Dr Fetter,

The NRC protective measures team and Dr Aoki have requested we have a short conference call this afternoon to discuss the modeling efforts. Please let us know of a convenient time for you. We propose to use the NIT Bridge Line (202-245-2099) (b)(6)

V/R
NIT – Dave Bowman

Nuclear Incident Team (NIT)
Office of Emergency Response (NA-42)
National Nuclear Security Administration
U.S. Department of Energy
nitops@nnsa.doe.gov
nit@doe.gov
202-586-8100

RRR/96

From: Ryan, Michelle
Sent: Thursday, March 24, 2011 12:58 PM
To: Turtil, Richard; LIA04 Hoc; OST05 Hoc; LIA01 Hoc; LIA11 Hoc
Cc: Virgilio, Rosetta; Noonan, Amanda; Rivera, Alison; Flannery, Cindy; Easson, Stuart; Maupin, Cardelia
Subject: RE: Final Traveler Plan Documents for Implementation

FYI

ASTHO is the Association of State and Territorial Health Officials
<http://www.astho.org/>

From: Turtil, Richard
Sent: Thursday, March 24, 2011 11:35 AM
To: LIA04 Hoc; OST05 Hoc; LIA01 Hoc; LIA11 Hoc
Cc: Virgilio, Rosetta; Noonan, Amanda; Rivera, Alison; Flannery, Cindy; Easson, Stuart; Ryan, Michelle; Maupin, Cardelia
Subject: FW: Final Traveler Plan Documents for Implementation
Importance: High

I have not yet reviewed. These were sent this a.m. by fed agency/organization ASTHO(?) of HHS? The sender (from ASTHO) comments in email down below **to the State recipients:**

Please share with those within your agency/public health system who have a need to know but, for now, this probably should not be widely or publicly distributed/posted.

Rich Turtil

From: Natarajan, Nitin (HHS/ASPR/OPEO) [mailto:Nitin.Natarajan@hhs.gov]
Sent: Thursday, March 24, 2011 11:28 AM
To: Turtil, Richard; 'Tupin.Edward@epamail.epa.gov'
Subject: FW: Final Traveler Plan Documents for Implementation
Importance: High

FYSA.

N

Nitin Natarajan
Coordinating Director
HHS/ASPR/OPEO
202-260-2002 Office
(b)(6) STE
(b)(6) Cellular
nitin.natarajan@hhs.gov E-mail



BRR/97

From: James Blumenstock [mailto:jblumenstock@astho.org]

Sent: Thursday, March 24, 2011 10:56 AM

Cc: EDStaff; Bakker, Gerrit (CDC astho.org); Sinibaldi, Jennifer (CDC astho.org); Sheridan, Amy (CDC astho.org); Paula Steib; Michael Epp (PIHOA); Ruth McBurney; Natarajan, Nitin (HHS/ASPR/OPEO); Marano, Nina (CDC/OID/NCEZID)

Subject: FW: Final Traveler Plan Documents for Implementation

Importance: High

Dear State and Territorial Health Officials, Senior Deputies, Directors of Public Health Preparedness, State Environmental Health Directors, and National Alliance for Radiation Readiness Members,

As mentioned in an earlier email, attached you will find the suite of documents that make up the Traveler Plan Protocol and Procedures for screening travelers leaving Japan for possible radioactive contamination. Allow me to bring to your attention the documents entitled "Interim Recommendations...", "T-HAN", and "Screening Script" where the defined roles and division of labor between the Radiation Control Officer, State and Local Public Health Agencies and Poison Control Centers are articulated. Also of interest is the document that lists the airports receiving direct flights from Japan. While every jurisdiction should be prepared to manage these incidents, clearly the 14 states/territories that receive direct flights from Japan would be more directly impacted.

This issue and other topics will be discussed during this afternoon's call at 5pm Eastern.

Please share with those within your agency/public health system who have a need to know but, for now, this probably should not be widely or publicly distributed/posted. It is also my understanding that both DGMQ and CBP will be notifying all port of entry players.

Best,

Jim

From: Marano, Nina (CDC/OID/NCEZID) [mailto:nbm8@cdc.gov]

Sent: Thursday, March 24, 2011 10:30 AM

To: MCALEENAN, KEVIN K.; Brinsfield, Kathryn; James Blumenstock; asa01@health.state.ny.us; rmcburney@crupd.org; Patrick McConnon, MPH; Jack Herrmann; David Lakey, MD; Frieda.Fisher-Tyler@state.de.us; Chang, Arthur (Art) (CDC/ONDIEH/NCEH); McAdam, David (CDC/OID/NCEZID); Ruth McBurney

Cc: Bryant, Jeffrey (Jeff) (CDC/OPHPR/DSLRL); Brunette, Gary W. (CDC/OID/NCEZID); Nemhauser, Jeffrey B. (CDC/ONDIEH/NCEH); Holton, Kelly (CDC/OID/NCEZID); HOWE, RANDY J; Deitchman, Scott (CDC/ONDIEH/NCEH); Allred, Phillip M. (Mike) (CDC/ONDIEH/NCEH); Cetron, Marty (CDC/OID/NCEZID); Brown, Clive (CDC/OID/NCEZID); Smith, Lee (CDC/OID/NCEZID); Alvarado-Ramy, Francisco (CDC/OID/NCEZID); Palumbo, Gabriel (CDC/OID/NCEZID); Hunter, David W. (CDC/OID/NCEZID); Demma, Andrew (CDC/OID/NCEZID); Rotz, Lisa (CDC/OID/NCEZID); Jackson, William L. (CDC/OID/NCEZID); Nemhauser, Jeffrey B. (CDC/ONDIEH/NCEH); Navin, Philip (CDC/OPHPR/DEO); Bell, Beth (CDC/OID/NCEZID); Helfand, Rita (CDC/OID/NCEZID)

Subject: Final Traveler Plan Documents for Implementation

Importance: High

All here are the final traveler plan documents. Includes

Traveler plan summary

THAN for affected travelers

CBP Script

List of state health depts daytime numbers

List of state radiation control program directors 24/7

Flow Chart of plan

List of major airports for Japan arriving travelers

Traveler Contact Information Form for affected travelers for CDC contact

There will be an ASTHO call at 5pm today where we will go over the plan and answer questions from State Health Departments about the plan. Please let us know if there are other venues where you would like us to do same.

Thank you very much for your partnership on this plan.

Thanks Nina Marano
Global Migration Team
Japan Earthquake Response

From: Weber, Michael
Sent: Thursday, March 24, 2011 1:14 PM
To: RST01 Hoc; LIA06 Hoc; LIA08 Hoc
Cc: ET07 Hoc; ET05 Hoc; OST02 HOC; FOIA Response.hoc Resource
Subject: FYI - Request by DNI and PACOM to participate in a 1530 SVTS call

From: Holahan, Patricia
Sent: Thursday, March 24, 2011 12:47 PM
To: Leeds, Eric; Johnson, Michael
Cc: Weber, Michael; Evans, Michele; Wiggins, Jim; Masse, Todd
Subject: Request by DNI and PACOM to participate in a 1530 SVTS call

We have been requested by DNI to participate in a SVTS call with PACOM today at 1530 on the Japanese event. They actually have the calls daily at 1530 but I talked to Mike Weber in the Op Center and we thought we would try the first call and see if we can get anything out of it. They wanted somebody technical to be able to tell them about the current status of the plants. Mike suggested contacting one of you two to see if you were willing to be on the call. Now we are currently working out some issues because they are on the DOD system and we are on the CMS system so we may have to have a patch to be able to link up with them. If one of you are available, we'll let you know which SCIF the call will be in. Apparently this morning the Chairman talked with the Admiral at PACOM as well as others. If you want more information on it, you can call Todd Masse, Branch Chief of ILTAB.

Thanks, Trish

Patricia K. Holahan
Director, Division of Security Operations
Office of Nuclear Security and Incident Response
U.S. Nuclear Regulatory Commission
Washington, DC 20555

(301) 415-6828 (work)

(b)(6) (cell)

patricia.holahan@nrc.gov

BRR/98

From: Harrington, Holly
Sent: Thursday, March 24, 2011 2:55 PM
To: RST01 Hoc
Subject: FW: REPLY FW: japan doc from Proteus Applied Technologies
Attachments: PAT Japan Assessment v1.0.doc; JPAT Japan Lead 1.doc; Lead Monosillicate.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Rick – here you go.

Holly

From: Deavers, Ron
Sent: Wednesday, March 23, 2011 5:29 PM
To: Harrington, Holly
Cc: Bonaccorso, Amy
Subject: FW: REPLY FW: japan doc from Proteus Applied Technologies

Holly,

We provided the standard answer for suggestions below, however, after scanning the attachments for virus and looking them over, we have an unsolicited proposal for a technical concept that may merit a screening review by a technical expert. Your call.

Ron

From: Deavers, Ron
Sent: Wednesday, March 23, 2011 5:16 PM
To: (b)(6)
Subject: REPLY FW: japan doc from Proteus Applied Technologies

We appreciate the suggestions of folks with ideas to resolve the situation in Japan. Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

From: Gary Steadman [mailto:(b)(6)]
Sent: Sunday, March 20, 2011 2:56 PM
To: OPA Resource
Subject: FW: japan doc from Proteus Applied Technologies

On behalf of **Proteus Applied Technologies**.

Dear Sir,

As requested I am resending the previous documents. They include the main document and our latest update, which is applicable as stated there in.

I am a UK resident and my contact number is (b)(6) (it will need an international prefix).

RRR/99

Yours faithfully

Gary T Steadman

Date: Fri, 18 Mar 2011 22:11:49 +0000

From: (b)(6)

Subject: japan doc

To: (b)(6)

Gary
copy of doc....

Chas Ingham

Developing Concept. (not yet for open distribution and usage).

Application and Usage.

To reduce the effects of and the possible actions of nuclear fission reactions within a nuclear reaction vessel.

Lead Monosilicate

To be added to the sea water coolant currently in use.

Intent.

That if the overall temperature within the reactor is over roughly (specific temp can be sourced from glass manufacturers) 700C - 750C, then (initially) molten anti-radioactive glass would be created and then eventually fill the reactor vessel itself. In theory this would isolate any exposed fuel rods and eventually stop any ongoing nuclear fission reactions.

Note that certain very minor additional elements and/or compounds (requirements again sourced from glass manufacturers) might be needed to fine tune the additive to 100% effective applicability in terms of glass creation.

Water solubility of the compound is less than 0.005g/100cc and so the intended glass creation should remain unaffected.

Specific Applicability.

It is possible that the proposed system might be used both to resolve the ongoing possible uncontrolled fission reactions and at a later time, to enable full isolation and thus (possibly) to allow limited access to the reactor vessel environs once the crisis (situation) is under control.

Subsequent Effects.

Once the situation is under full control and reactor temperature have returned to normal, the reactor would in effect be internally sealed with anti-radioactive glass and most likely in terms of future usage or recovery , considered unusable.

Note 1. Basic health and safety information the proposed active mechanism should accompany this briefing in the form a PDF entitled Lead Monosilicate.

Note 2. The basic under laying concept of glass creation and the nuances of its manufacture as the crisis seems to require of it, should be readily available from any industrial glass manufacturer.

Proteus Applied Technologies Int'l Inc
Proteus Applied Technologies UK Ltd

Japan Event Crisis Evaluation and Assessment

Proposal

Chas Ingham, Marc Naroshkhyn, Gary Steadman
18 March 2011

Proteus Crisis Evaluation and Assessment – Japan Event

Proteus Applied Technologies (PAT) is researching and seeking to produce commercial quantities of energy from non-traditional sources. We are based in New York and UK, which includes chemists, engineers, and physicists in California and the United Kingdom, as well.

From our research we felt there are aspects that would significantly elevate the difficulties currently challenging the nuclear community assisting Japan.

Outstanding Safety Concerns

Our research here at PAT indicates that there are a number of unforeseen safety issues in regard to the ongoing operations in use to resolve the crisis:

1. **SALT** - The use of sea water as a coolant can in certain thermal conditions increase the difficulties in the reactor vessel, depending upon overall temperature operations and the possible increase of hydrogen levels, creation of unmanageable corrosive compounds and thereby an increase in overall temperature.
2. **HYRDOGEN** - In regard the explosions in the containment buildings, our research indicates that significant increase in hydrogen levels can occur even if environment factors are apparently unchanged.
3. **REACTION SUPPRESSION** - The reported acquisition of additional supplies of Boric acid would indicate the attempt to control ongoing nuclear fission reactions in the reactor, indicative of an uncontrolled nuclear activity.
4. **ENVIROMENTAL TEMPERATURE** - The lack of specific information regarding the overall temperature in the reactor vessel, due to the previously vented steam gaseous mix into the containment buildings and the subsequent unforeseen explosions.

Therefore we recommend that you create a new strategy that deals with the ongoing problems both external and internal in regard of the current Japan Event situation. It is recognized that these concepts are applicable only to the ongoing operation at the plants.

The intent of all three concepts contained in parts 1-3 is to regain control of the overall system management, by reducing the temperature in the reactor vessels and preventing the ignition of

Proteus Crisis Evaluation and Assessment – Japan Event

any vented steam/hydrogen gaseous mix. Once that state has been achieved then conventional and already proven systems can be activated to stabilise operations as a whole.

We of course appreciate that the measures suggested in parts 1-3 may be of an unusual or unconventional nature, but they are intended for the purpose of resolving the current situation and crisis in specific terms. How and if they might be applied in other situations and operations has yet to be determined.

Managing Agents

- 1. Carbonated Water** (water with dissolved carbon dioxide)
For best results it is recommended at least matching the current volume of sea water being added, which would give a significant boost of carbon dioxide coolant gas within the reactor vessel. The concept is simple in terms of chemistry and application and can be applied from room temperature upwards.
- 2. Calcium Carbonate**
Should the reactor temperature be at 850C or higher, we recommend adding the maximum amount of calcium carbonate sufficient to still allow the effective flow of the coolant water through existing mechanisms. (This should be a slurry type composition). The carbonate being insoluble will 'bake' into calcium oxide and in doing so release carbon dioxide coolant gas. Once this slurry and gaseous mix leaves the reactor vessel and the temperature falls below 850C, the calcium carbonate will reform as solid particles within the water allowing reuse of the water coolant mix.
- 3. Hydraulic Cement**
This approach is specific to a reactor breach before full core melt down and would try to seal the reactor using external means. In this process it is essential the combination of calcium oxide (from calcium carbonate already dropped), water and clay/silica in the correct ratio to produce the required sealant (cement once set)
Note 1: The conversion of the dropped calcium carbonate to its oxide will produce large volumes of carbon dioxide as it reaches the highest temperature of the breach.
Note 2: Calculation would need to be made regarding the conversion of the calcium carbonate to the required calcium oxide.

Proteus Crisis Evaluation and Assessment – Japan Event

The combination of excess internal and external Carbon Dioxide, along with the Hydraulic Cement should be enough to both prevent further external Hydrogen sourced explosions and begin reducing the temperature of the containment building and its environs.

Sourcing Coolant Materials (all three solutions).

- a. For the external CO₂ / Hydraulic Cement concept Calcium Carbonate and similar cement based products would best be sourced in mainland China, as it is the regions largest manufacturer.
- b. For the internal CO₂ concept, Calcium Carbonate is again best sourced from mainland China, as it is the regions largest manufacturer.
- c. For the additional CO₂ concept contained in this document, any large volume of any carbonated water products would suffice (literally) as the coolant additive.

Scientific details and raw calculations for Internal calcium carbonate solution.

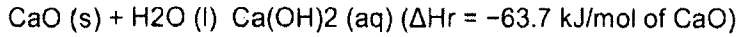
(This is based on the assumed latest site reading of temperature and pressure from the Japanese Gov. @ 16 March 2011 utilizing Managing Agent no.2)

Lets assume the reactor vessels are still in one piece and the explosions are due as they say, to steam vented from the vessel to the containment building, which then exploded.

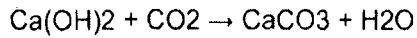
Our suggestion from yesterday is still rock solid to control the containment building environs.

There might however be a way to assist what's going on in the vessel itself. They could if sea water is their only available coolant add CALCIUM CARBONATE to the water, it is all but insoluble in water, to form a slurry and then add this as the coolant. If the temperature inside the reactor vessel is over 850C, then the insoluble Calcium Carbonate will bake and produce as stated before Calcium Oxide and Carbon Dioxide. As long as the vessel temperature stays below 2572 °C the Calcium Oxide itself will remain stable.

Proteus Crisis Evaluation and Assessment – Japan Event



$\text{Ca(OH)}_2 \rightarrow \text{CaO}$ + Once the slurry (seawater, dissolving/dissolved Calcium Hydroxide, Calcium Oxide and Carbon Dioxide mix leaves the vessel, Calcium Carbonate will reform for use again as it reacts with the Carbon Dioxide...



Therefore they can reuse the same coolant mix over and over.

This would then provide a continual source of Carbon Dioxide in the reactor vessel to aid in cooling the fuel rods!

CONTACTS

Chas Ingham

Director - UK Operations

Proteus Applied Technologies Ltd

32 Brain Road, Witham, Essex, CM8 1LB

M:

Marc Naroshkhyn

President & CEO

Proteus Applied Technologies Int'l Inc.

2345 West Street, Brooklyn, NY, USA

M:

SECTION 1.0 IDENTIFICATION

MANUFACTURED BY : Hammond Lead Products
Hammond Plant
A Division of Hammond Group, Inc.
2308 165th Street
Hammond, IN 46323

Product/Technical Information: 1-219-931-9360 (Hammond Group, Inc)
1-219-845-0031 (Hammond Plant)

Emergency Information: 1-800-424 -9300 **Chemtrec®**
1-219-845-0031 Ask for Environmental Coordinator

SECTION 2.0 HAZARDOUS COMPOSITION/INGREDIENTS

Product Identification Number (PIN) United Nations Identification Number (UN): This product may be subject to both domestic and international transportation regulations. For further information refer to Section 14.0.

Trade names for Lead Monosilicate: Lead Monosilicate, Lead Monosilicate UHP Grade
This MSDS represents the above stated Hammond Lead Products products.

Product Uses: Inorganic lead compounds are used in the manufacture of vitreous enamels, glazes for ceramics, lead in glass for x-ray protection, and electronic ceramics.

Component Name Synonym/Trade Name	CAS No.	EINECS Number	Canadian Domestic Substance List	% Composition Range
Lead Monosilicate	65997-18-4	266-047-6	Yes. See CAS number.	100

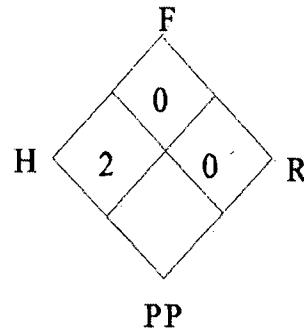
EMERGENCY OVERVIEW: This material is an odorless, light yellow granule or powder.

- This material is not flammable; however, if involved in a fire, it may emit toxic fumes of lead.
- Excessive airborne concentrations may obscure vision and present an inhalation and ingestion hazard.
- Spill materials and associated run-off should not be allowed to reach waterways.
- Danger of cumulative effects.
- Substance may be irritating to the eyes and skin.

HAZARD RATING IDENTIFICATION SYSTEMS

Lead Monosilicate

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	*



(NPCA®, 1981)

*Recommended personal protective measures are identified within this document.

SECTION 3.0 HAZARDS IDENTIFICATION					
POTENTIAL HEALTH EFFECTS					
<p>Routes of Exposure: Inhalation, ingestion, eye, and skin contact.</p>					
<p>INHALATION</p> <p>Acute exposures: Inhalation is the main route of lead intoxication. Symptoms which may be experienced from the inhalation of lead dust or fume may not develop quickly, therefore there may be no immediate effects from exposure. Increasing amounts can build up in the body and may reach a point where symptoms and disability occur. The effects of exposure to fumes and dusts of inorganic lead may include decreased physical stamina, fatigue, sleep disturbances, headaches, aching bones and muscles, constipation, abdominal pains and decreased appetite. Inhalation of large amounts may lead to seizures, coma or possibly death.</p> <p>Chronic exposures: Lead is a cumulative poison. Increasing amounts can build up in the body and may reach a point where symptoms and disability can occur. These may include anemia, pale skin, a blue line at the gum margin, decreased hand-grip strength, abdominal pain, severe constipation, nausea, vomiting, and paralysis of the wrist joint. Prolonged exposure may result in kidney damage. If the nervous system is affected, usually due to very high exposures, the resulting effects include severe headaches, convulsions, delirium, coma, and possibly death. Continuous exposure may result in decreased fertility. Lead is a teratogen. Elevated lead exposure of either parent before pregnancy may increase the chances of miscarriage or birth defects. Exposure of the mother during pregnancy may cause birth defects.</p> <p>Carcinogenic Potential (listed under):</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <p>IARC 2B OSHA Not Listed</p> </td> <td style="width: 33%; vertical-align: top;"> <p>NTP Not Listed NIOSH Not Listed</p> </td> <td style="width: 33%; vertical-align: top;"> <p>ACGIH A3 DFG-MAK Not Listed</p> </td> </tr> </table>			<p>IARC 2B OSHA Not Listed</p>	<p>NTP Not Listed NIOSH Not Listed</p>	<p>ACGIH A3 DFG-MAK Not Listed</p>
<p>IARC 2B OSHA Not Listed</p>	<p>NTP Not Listed NIOSH Not Listed</p>	<p>ACGIH A3 DFG-MAK Not Listed</p>			
<p>Medical Conditions which may be aggravated by exposure: Any previously existing lung or pulmonary condition.</p>					
<p>INGESTION</p> <p>Acute exposures: Symptoms which may be experienced from the ingestion of lead dust or fume may not develop quickly, therefore there may be no immediate effects from exposure. Increasing amounts can build up in the body and may reach a point where symptoms and disability may occur. The effects of exposure to fumes and dusts of inorganic lead may include decreased physical stamina, fatigue, sleep disturbance, headaches, aching bones and muscles, constipation, abdominal pains and decreased appetite.</p> <p>Chronic exposures: Lead is a cumulative poison. Increasing amounts can build up in the body and may reach a point where symptoms and disability may occur. These may include anemia, pale skin, a blue line at the gum margin, decreased hand-grip strength, abdominal pain, severe constipation, nausea, vomiting, and paralysis of the wrist joint. Prolonged exposure may result in kidney damage. If the nervous system is affected, usually due to very high exposures, the resulting effects include severe headaches, convulsions, coma, delirium and death. Continuous exposure may result in decreased fertility. Elevated lead exposure of either parent before pregnancy may increase the chances of miscarriage or birth defects. Exposure of the mother during pregnancy may cause birth defects.</p> <p>Carcinogenic Potential (listed under):</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <p>IARC 2B OSHA Not listed.</p> </td> <td style="width: 33%; vertical-align: top;"> <p>NTP Not listed. NIOSH Not listed.</p> </td> <td style="width: 33%; vertical-align: top;"> <p>ACGIH A3 DFG-MAK Not listed.</p> </td> </tr> </table>			<p>IARC 2B OSHA Not listed.</p>	<p>NTP Not listed. NIOSH Not listed.</p>	<p>ACGIH A3 DFG-MAK Not listed.</p>
<p>IARC 2B OSHA Not listed.</p>	<p>NTP Not listed. NIOSH Not listed.</p>	<p>ACGIH A3 DFG-MAK Not listed.</p>			
<p>Medical Conditions which may be aggravated by exposure: Any previously existing digestive, renal or nervous system condition.</p>					

<p>EYE CONTACT</p> <p>Acute Exposure: Exposure to dust may cause irritation.</p> <p>Chronic Effects: No chronic effects are anticipated.</p> <p>Note: The temporary effects of eye contact or obscured vision due to excessive airborne concentrations may directly impair an individual's ability to locate emergency exits and/or eyewash stations to receive first aid.</p> <p>Medical Conditions which may be aggravated by exposure: None anticipated.</p>
<p>SKIN CONTACT</p> <p>Acute Exposure: Skin contact with material may cause irritation.</p> <p>Chronic Effects: No chronic effects are anticipated.</p> <p>Medical Conditions which may be aggravated by exposure: None anticipated.</p> <p>Health effects described above are based on published scientific information available for review, and evaluated on behalf of this product. Actual signs and symptoms experienced may vary due to conditions at the time of exposure.</p>

SECTION 4.0 FIRST AID MEASURES	
Inhalation:	<ul style="list-style-type: none"> ● Remove victim to fresh air. ● If conscious, have victim clear nasal passages. ● Restore breathing. (e.g., Artificial Respiration, CPR) ● Seek medical attention, as necessary, if symptoms develop or persist.
Ingestion:	<p>If victim is conscious and alert,</p> <ul style="list-style-type: none"> ● Give large quantities of water and induce vomiting. ● Seek medical attention immediately.
Eye:	<p>Holding eyelids open,</p> <ul style="list-style-type: none"> ● Do not allow victim to rub their eyes. ● Gently flush eyes for 15 minutes with large quantities of water. ● Seek medical attention if irritation develops or persists.
Skin:	<ul style="list-style-type: none"> ● Wash area with soap and water. ● Seek medical attention if irritation develops or persists.

SECTION 5.0 FIREFIGHTING MEASURES			
Flash Point:	Not applicable.	Flammability Range:	LEL (%): Not applicable.
Method:	Not applicable.		UEL (%): Not applicable.
Auto Ignition Temperature:	Not applicable.		
Extinguishing Media: This material is not combustible and is not anticipated to react with commercially employed extinguishing media. Use appropriate extinguishing media for surrounding fire.			
Special Firefighting Procedures: As part of responding to any fire, firefighters should wear full turnout gear with a positive pressure demand mode Self-Contained Breathing Apparatus (SCBA). Contain all fire suppression run-off.			
Hazardous Thermal Decomposition Byproducts: This product, when heated to decomposition temperature, may emit toxic fumes of lead.			
Unusual Fire & Explosion Hazards: None anticipated.			

SECTION 6.0 ACCIDENTAL RELEASE MEASURES

Actions to be Taken for Spills: Personnel responding to a spill should:

- Protect against identified hazards through use of prescribed personal protection equipment, proper work and hygiene practices.
- Limit foot and vehicular traffic to minimize mechanical agitation and dispersion.
- Employ a vacuum, equipped with HEPA (High Efficiency Particulate Air) filter, for clean-up of the spill material.
- If no vacuum is available, use a broom and shovel to collect excess powder in the area. Residual material should then be cleared, utilizing the process of wet sweeping, to avoid dust generation.

Containment Techniques: This is a solid material and will not travel far from the spill location unless mechanically agitated. Therefore, no specific containment techniques are recommended outside of restricting access to the spill location.

Lead Monosilicate is considered hazardous material. During spill cleanup, residual wash waters should be contained and collected for proper disposal. Precautionary measures should be exercised to prevent this substance or associated wash waters from entering the waterways.

Spill Response Equipment: The following equipment is recommended for spill response:

- vacuum, equipped with a HEPA filter
- broom, wet mop
- dustpan, shovel, or scoop
- bags, drums, or sacks for collection

Note: Non-sparking equipment may be selected, based on location specific requirements and individual work site evaluations.

Spill Response Personal Protective Equipment: Employees should utilize the following protective equipment when performing spill response activities:

- gloves (rubber or leather)
- cotton or tyvek coveralls
- chemical/safety impact goggles
- respiratory equipment as recommended in Section 8.0.

SECTION 7.0 HANDLING AND STORAGE

Handling Procedures and Equipment: When handling this product, all personnel are directed to:

- Wear all specified elements of PPE, as directed by this document, or under location specific requirements, whichever is more conservative.
- Avoid creating dust, where possible.
- Be familiar with the requirements set forth in the OSHA Lead Standard 29 CFR 1910.1025.

Storage Requirements: The following information provides the appropriate and recommended methods for safe storage and maintenance of product integrity:

- Store in a cool, dry, well-ventilated area.
- Product containers (paper bags, nylon bags, drums, etc.) are prone to physical damage. Care should be taken in storage and handling in order to prevent damage.
- Avoid contact with oxidizers and chemically active metals, since violent reactions may occur.

SECTION 8.0 PERSONAL PROTECTIVE MEASURES

Engineering Controls: If user operations generate dusts or fumes, use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Where any employee is exposed to lead above the permissible limits for more than 30 days per year, the employer shall implement engineering and work practice controls including administrative controls to reduce and maintain employee exposure to lead in accordance with the implementation schedule specified in 29 CFR 1910.1025(e)(1), except to the extent that the employer can demonstrate that such controls are not feasible. Wherever the engineering and work practice controls which can be instituted are not sufficient to reduce employee exposure to or below the permissible exposure limit, the employer shall nonetheless use them to reduce exposure to the lowest feasible level and shall supplement them by the use of respiratory protection which complies with the requirements of 29 CFR 1910.1025(f).

EMPLOYEE PROTECTIVE MEASURES

Respiratory Protection: The following NIOSH/MSHA approved respiratory protection is recommended for use in airborne concentrations exceeding the exposure limits identified in this section.

- Not in excess of 0.5 mg/m³ (10 X PEL) Half mask, air purifying respirator (APR) equipped with P100 filters.
- Not in excess of 2.5 mg/m³ (50 x PEL). Full facepiece, APR with P100 filters
- Not in excess of 50 mg/m³ (1000 x PEL). Any powered air purifying respirator with P100 filters or half mask supplied-air respirator operated in positive pressure mode.
- Not in excess of 100 mg/m³ (2000 x PEL) Supplied-air respirators with full facepiece, hood, helmet, or suit, operated in positive pressure mode.
- Greater than 100 mg/m³, unknown concentration or fire fighting. Full facepiece, self-contained breathing apparatus operated in positive pressure mode.

Utilization of respiratory equipment should be in accordance with 29 CFR 1910.1025 and 29 CFR 1910.134.

Chemical Protective Clothing/Gloves: Leather or rubber gloves and full body cotton coveralls are recommended to prevent direct skin contact.

Eye/Face Protection: Chemical/safety impact goggles are recommended to be used where excessive dust concentrations may exist. In situations where respiratory protection is required to be used for excessive dust concentrations, a full-face APR may be used in place of a half-face APR with chemical/safety impact goggles.

Head and Feet: Hard hats and safety shoes are not recommended based on product considerations. These items, however, may be location specific requirements and should be employed as directed.

Note: Protective clothing is required if the lead exposure exceeds the PEL or TLV. Full body, cotton or disposable coveralls should be worn during use and handling, be left at the work site and be properly disposed of or laundered after use, with the wash water disposed of in accordance with local, state and federal regulations. Personal clothing should be protected from contamination.

Other: An emergency eye wash is recommended in the work area to offer first aid assistance for incidental contact with eyes. All emergency eye wash stations should, at a minimum, meet requirements as established under ANSI Z.358.1 (latest version) for location, design, and operation.

Work Hygiene Practices: To control potential exposures, avoid creating dust. Always wear appropriate protective equipment when handling lead chemicals. To avoid skin contact, gloves (leather or rubber) should be worn when handling containers of lead chemicals. Do not eat, drink, smoke or apply cosmetics while using/handling lead chemicals. Always wash hands and face after handling lead chemicals. Before using this product, be familiar with the OSHA Standard for Occupational Exposure to Lead, 29 CFR 1910.1025.

- Avoid direct skin contact when possible.
- Do not eat, drink, smoke, or perform other hand-to-mouth activities in product use or handling area.
- Wash thoroughly after handling this product.

EXPOSURE GUIDELINES									
Component Name	CAS No.	% Composition Range	OSHA PEL mg/m ³		ACGIH TLV mg/m ³			DFG-MAK mg/m ³	
			TWA	STEL	TWA	STEL	BEI	TWA	STEL
Lead Monosilicate (as Lead)	65997-18-4	100	0.05	N.E. ²	0.05	N.E.	30 ¹	0.1	1.0 ³
1) µg/100 ml of blood 2) N.E. = None Established 3) Once/shift - 30 minutes									

SECTION 9.0 CHEMICAL AND PHYSICAL PROPERTIES			
Boiling Point (at 760 mm Hg):	Not applicable.	Vapor Pressure (mmHg):	Not applicable.
Freezing Point:	Not available.	Vapor Density (Air = 1):	Not applicable.
Melting Point:	700-784°C; 1292-1443°F.	Evaporation Rate:	Not applicable.
Solubility in Cold Water:	<0.005 g/100cc.	Percent Volatility:	Not applicable.
Apparent Density:	Not available.	Mean Particle Size (µm):	Not available.
Coefficient Water/Oil Distribution:	Not applicable.	Specific Gravity (Water = 1):	6.50 - 6.65.
Odor/Odor Threshold:	Odorless.	Molecular Weight:	263.27.
Appearance:	Light yellow powder or granule.	Weight per gallon (lbs.):	Not available.

SECTION 10.0 STABILITY AND REACTIVITY	
Product Stability: Stable.	Conditions of Reactivity: Excessive temperatures.
Incompatibility (materials to avoid): None anticipated.	Hazardous Polymerization: Will not occur.
Hazardous Decomposition Byproducts (Non-thermal): None anticipated.	

SECTION 11.0 TOXICOLOGICAL INFORMATION			
OCCUPATIONALLY RELEVANT ROUTES OF EXPOSURE			
Inhalation:	Human TClO: 10mg/m ³ Gastrointestinal tract effects (For LEAD).	Skin:	No quantitative information found.
Ingestion:	No quantitative information found.	Eye:	No quantitative information found.

SECTION 12.0 ECOLOGICAL INFORMATION

Lead and its compounds have been known as metals since ancient times. It occurs widely in the earth's crust and can be dissolved from rocks and minerals into surface waters. Lead and its compounds have a variety of commercial and industrial uses, such as lead pipes, lead-lined containers for corrosive gases and liquids, tetraethyl lead, paint pigments, alloys in metallurgy, storage batteries, ceramics, electronic devices, and plastics.

Acute (short-term) Ecological Effects: Acute toxic effects to excessive concentrations may include death of some animals, birds, or fish, and possible death or low growth rate in some plants. Acute effects are seen two to four days after animals or plants come in contact with a toxic chemical substance. Toxicity to aquatic life is affected by water hardness - the softer the water the greater the toxicity. Lead and its compounds have high acute toxicity to aquatic life. Insufficient data are available to evaluate or predict the short-term effects of lead and its compounds to plants, birds, or land animals.

Chronic (long-term) Ecological Effects: Chronic toxic effects may include shortened lifespan, reproductive problems, lower fertility, and changes in appearance or behavior. Chronic effects can be seen long after first exposure(s) to a toxic chemical. Lead and its compounds have high chronic toxicity to aquatic life. Lead causes nerve and behavioral effects in humans and could cause similar long-term effects in birds and land animals exposed to lead and its compounds.

Water Solubility: Lead and its compounds range in their respective water solubilities from highly soluble to practically insoluble. The solubility of this material in cold water is < 0.005 g/100cc.

Distribution and Persistence in the Environment: Lead and its compounds are highly persistent in water, with a half-life greater than 200 days. The half-life of a pollutant is the amount of time it takes for one-half of the chemical to be degraded.

Bioaccumulation in Aquatic Organisms: Some substances increase in concentration, or bioaccumulate, in living organisms as they breathe contaminated air, drink contaminated water, or eat contaminated food. These chemicals can become concentrated in the tissues and internal organs of animals and humans. The concentration of lead and its compounds found in fish tissues is expected to be much higher than the average concentration of lead in the water from which the fish was taken.

Permissible Concentration in Water: To protect freshwater aquatic life $e^{[2.35 \ln(\text{hardness}) - 9.48]}$ never to exceed $e^{[1.22 \ln(\text{hardness}) - 0.47]}$. To protect saltwater aquatic life 668 µg/l on an acute toxicity basis and 25 µg/l on a chronic basis. To protect humans, maintain water concentrations to less than 50 µg/l.

SECTION 13.0 DISPOSAL CONSIDERATIONS

Physical/Chemical Properties: This material is a stable solid.

Recommended Disposal Method: Reblend spilled, unused, off-specification materials with other materials, where possible, in support of waste minimization. Where this is not possible, dispose of material according to Federal (country-specific), state, and local requirements.

Empty Containers: This product may be shipped in paper or nylon bags, steel drums, plastic or steel pails, or intermediate bulk containers. All residual material should be emptied and the containers recycled where possible. Where recycling is not possible, all containers should be disposed of in accordance with Federal (country-specific), state, and local requirements.

If questions exist about disposal, please contact the manufacturer for additional information.

SECTION 14.0 TRANSPORTATION INFORMATION	
This material is not regulated by current US DOT regulations. However, elemental lead metal is regulated by the DOT. If the packaged product contains an amount of elemental lead metal less than 100 micron in particle size and in an amount of 10 pounds or greater in each package, then it is classified as a DOT hazardous material. <u>The following shipping information will apply only in the situation described above:</u>	
Proper Shipping Name: Environmental hazardous substance, solid, N.O.S., R.Q. (Contains lead metal) (ERG #171)	
U.N. Identification No.: 3077	Class or Division: 9
Subsidiary Risk: None Listed	Labels: Class 9
State Variation: None Listed	Special Provision: 8, B54, N50 (172.102)
U.N. Packing Group: III	Passenger Aircraft: NONE Max. Quantity Per Package: No Limit Packaging Instruction: 911
Cargo Aircraft: NONE Max. Quantity Per Package: No Limit Packaging Instruction: 911	
Packaging Authorization: DOT 173.155 (EXCEPTIONS); 173.213 (Nonbulk Packaging); 173.240 (Bulk Packaging)	
Notes: The primary guidance for this information is the USDOT.	

SECTION 15.0 REGULATORY INFORMATION	
The following regulations and guidelines apply to the product and/or product components.	
SARA Supplier Notification: The product or component(s) of the product we sell to you is subject to the reporting requirements of Section 313, Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), 40 CFR Part 372.	
<u>Product</u>	<u>Chemical</u>
Lead Monosilicate	Lead Compounds
<u>CAS Number</u>	<u>% By Weight</u>
Not Applicable	85
ACGIH TLV	
Australia Exposure Standards for Atmospheric Contaminants in the Occupational Environment	
California Prop 65 – WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.	
Canadian Ingredient Disclosure List	
Canadian Domestic Substance List	
CERCLA Hazardous Substances listed as lead	
Clean Water Act Section 304 Water Quality Criteria Substances as lead	
Clean Water Act Section 307 Priority Pollutants listed as lead and lead compounds	
European Inventory of Existing Commercial Chemical Substances	
European Union Occupational Exposure Limits (See individual member states)	
Federal Republic of Germany DFG-MAK	
NIOSH Recommendation Substances	
NTP Testing Program Substances	
OSHA PEL	
United Kingdom Occupational Exposure Limit	
Clean Air Act [Lead is regulated as a Hazardous Air Pollutant (HAP)]	

16.0 LABELING INFORMATION

Product Name: Lead Monosilicate

Ingredient(s): Lead Monosilicate

Signal Word: Warning !

Hazard Description: This product contains inorganic lead compounds. When handling contents, do not inhale or swallow. Overexposure through inhalation and/or ingestion could cause damage to the blood or nervous, digestive, and/or renal systems.

Precautionary Measures: Avoid contact with the skin, eyes, and mucous membranes. Use with adequate ventilation. Wear appropriate personal protective equipment. When handling contents, use NIOSH/MSHA approved respirators, clean protective clothing and gloves. Keep out of reach of children. Keep away from feed and food products. Continued exposure without these precautions could lead to lead poisoning. Wash thoroughly after use.

First aid Procedures:

Inhalation: Remove victim to fresh air. Restore breathing if necessary. If conscious, have victim clear nasal passages.

Ingestion: If victim is conscious and alert, give large amounts of water and induce vomiting.

Eyes: Holding eyelids open, gently flush eyes for 15 minutes with large quantities of water. Do not allow the victim to rub their eyes.

Skin: Wash area with soap and water.

In all cases of administered first aid, seek medical attention if symptoms develop or persist.

Fire Instructions: This material is not flammable; however, it may contribute toxic fumes of lead if involved in a fire. Select fire extinguishment media for surrounding materials.

Spill or Leak Procedures: Wear appropriate protective equipment. Limit foot and vehicular traffic to minimize agitation and dispersion. Employ a vacuum (equipped with a HEPA filter), broom and shovel, and wet sweeping for spill clean-up. Avoid creating dust. Do not allow this product or run-off to reach waterways.

Handling and Storage Instructions: Wear specified elements of personal protective equipment, as defined in the Material Safety Data Sheet (MSDS), or follow location specific instructions for handling this product. Store in a cool, dry, well-ventilated area. Specific instructions concerning directions for use and handling may be found in the MSDS or may be supplied by the manufacturer.

For additional information on this product, see the MSDS or contact the manufacturer.

Manufactured by: Hammond Lead Products
Hammond Plant
2308 165th Street
Hammond, IN 46323
1-219-845-0031

Phone: General Information: (219) 931-9360
EMERGENCY PHONE (24 HRS/DAY): 1-800-424-9300 Chemtrec®
1-219-845-0031 Ask for Environmental Coordinator

DOCUMENT STATUS REPORT

Date of Issue: January 11, 1999
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This information is given in good faith, but no warranty is expressed or implied. The above information is believed to be accurate, and represents the most up-to-date information available to us. Hammond Lead Products Division does not, however, represent that the information included herein is comprehensive or all-inclusive. It is, therefore, recommended that this document be used as a guide. Hammond Lead Products Division shall not be held liable for any damage or injury resulting from use of such information. Hammond Lead Products Division further encourages users of this product to investigate and determine any potential hazards associated with the users' intended use of this product, and to determine the suitability of this information with respect to the users' particular applications.

Prepared by: Hammond Group, Inc., Environmental, Health, and Safety Department

From: Emche, Danielle
Sent: Thursday, March 24, 2011 8:02 AM
To: Jackson, Karen; LIA02 Hoc; Stransky, Robert
Cc: LIA03 Hoc; Stahl, Eric
Subject: Re: Two new team members

Karen,
I will need a laptop after all. Is it still possible to get one today?
Danielle
Sent from an NRC BlackBerry.

From: Jackson, Karen
To: LIA02 Hoc; Stransky, Robert
Cc: LIA03 Hoc; Stahl, Eric; Emche, Danielle
Sent: Wed Mar 23 13:21:07 2011
Subject: RE: Two new team members

Does Eric and Danielle need laptops as well (OIS would like to know)?

...karen jackson

Emergency Response Coordinator
DPR/NSIR/USNRC
Office: 301-415-6398
Cell: (b)(6)
MS: T-4L7
e-mail: karen.jackson@nrc.gov

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 12:26 PM
To: Stransky, Robert
Cc: Jackson, Karen; LIA03 Hoc; Stahl, Eric; Emche, Danielle
Subject: Two new team members

Bob,

Here is an update on our new Japan team. Danielle Emche from OIP will be departing for Japan on Saturday (3/26) and Eric Stahl from OIP will depart on Monday (3/28). Danielle's blackberry number is (b)(6) and Eric's is (b)(6). Please let them know whether their blackberries are equipped to work in Japan or whether they will need new phones. Thanks!

e/b

RRR/100