

UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND PROCEDURES
WASHINGTON, D.C. 20555

April 1, 1983

IE INFORMATION NOTICE NO. 83-18: FAILURES OF THE UNDERTHRESHOLD TRIP FUNCTION OF REACTOR TRIP SYSTEM BREAKERS

Addressees:

All nuclear power reactor facilities holding an operating license (OL) or construction permit (CP).

Purpose:

This notice describes recent failures of reactor trip system circuit breakers with undervoltage (UV) trip attachments and provides additional information related to the UV attachment.

Description of Circumstances:

Reactor Trip System (RTS) breaker failures at Salem Unit 1 on February 22 and 25 and RTS breaker failures at San Onofre Units 2 and 3 reported to the NRC on March 11, 1983 led to issuance of IE Bulletins (IEB) 83-01 and 83-04 respectively. Results of testing of RTS breakers required by IE Bulletins 83-01 and 83-04 have been reported to the NRC. These results show that electrical breakers may not be achieving the performance reliability expected of them. The problem apparently lies with the undervoltage trip attachment. Failures of Westinghouse DB type, Westinghouse DS type and General Electric AK-2 type RTS breakers have been reported. To our knowledge, all currently licensed PWRs which use breakers for the RTS use one of these types. However, other safety-related systems may be configured with these breakers or breakers of other manufacturers and types which use an UV attachment to perform the required safety function. Licensees which use these breakers in other applications should be aware of the likelihood of failure to trip via the UV device. It would be prudent to check the operation and maintenance of these breakers.

IEB 83-01 was directed to plants using Westinghouse DB type breakers with undervoltage trip devices. A summary of the information submitted by licensees in response to the bulletin follows:

- (1) No failures of DB type breakers were reported as a result of the requested tests. Only one unit, which is in an extended maintenance outage involving the reactor protection system, has not yet performed the required tests.
- (2) Seven of the twenty-eight plants using the subject breakers had not been maintaining the breakers per the recommendations in Westinghouse NSD Data Letter 74-2, a copy of which was attached to the bulletin.

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- (3) Some plants reported that they were using the guidelines contained in the NSD Data Letter with certain exceptions (e.g., the maintenance interval had been extended from the recommended 9 or 12 month interval to either 18 months or during refueling).
- (4) Because the lubricants recommended in the NSD Data Letter are no longer commercially available, some plants reported that they were using lubricants other than those recommended in the NSD Data Letter.

IEB 83-04 was directed to plants using RTS breakers with undervoltage trip devices, other than those using DB type breakers, such as General Electric AK-2 type breakers and the Westinghouse DS-416 type breakers. A summary of the information submitted to date by licensees in response to IE Bulletin 83-04 follows:

- (1) Several failures of the General Electric AK-2 type breakers and the Westinghouse DS-416 type breakers were experienced during the tests and were reported to the NRC as required by the bulletin. Failures involving the AK-2 type breakers were reported at the Maine Yankee plant and at the Calvert Cliffs Unit 1 and 2 plants. On March 15, 1983, Maine Yankee reported that three of the eight RTS breakers used at the plant failed to open in the required times; one breaker tripped in 1.9 seconds, another in 2.7 seconds, and the third in 10.3 seconds. Maine Yankee further reported that these breakers were subsequently cleaned and lubricated after which they operated within the acceptable normal time. On March 15, Calvert Cliffs reported that two of the eight breakers in Unit 1 required approximately 6 seconds to trip and that two of the eight breakers in Unit 2 required approximately 1.5 seconds to trip. In its written report to the NRC dated March 21, 1983, Calvert Cliffs described three additional failures that were detected during tests at Unit 1 and three additional breaker failures detected at Unit 2. The report also indicated that these breakers functioned within the acceptable response time subsequent to performing maintenance on the breakers. On March 18, McGuire Unit 2 reported that one RTS breaker (DS type) failed to open upon deenergizing the undervoltage coil and on March 19, McGuire Unit 1 reported a failure of one RTS breaker. On March 24, Arkansas Nuclear One (ANO) Unit 1 reported failure to trip of an AK-2 type breaker.
- (2) Failures not previously reported to the NRC and identified thus far in the bulletin responses include the following: ANO Unit 1 identified one RTS breaker that failed to open and which was subsequently tested 10 times successfully after which it was surveillance tested daily until the breaker was ultimately replaced. McGuire Unit 2 identified a breaker failure that occurred during preoperational testing after which it was reworked and placed into service on February 18, 1983 (this is the same breaker for which we received a failure notification on March 18). Calvert Cliffs identified four events involving the undervoltage trip device. Two of the events occurred on Unit 2 and were described as sluggish trips which did achieve the protective system trip function. The other two events occurred one on each unit and resulted in the failure of the undervoltage device to trip the breaker. Three Mile Island Unit 1 identified a failure which occurred on November 19, 1976, during post

maintenance testing and which was stated to be due to binding caused by transporting and installing the breaker. Oconee Unit 3 identified one failure which occurred on December 17, 1978, for which the failure mechanism was not determined and the breaker was replaced.

It should be noted that IEB 83-01 failed to request information on previous failures of DB type RTS breakers which had not been reported to the NRC, as IEB 83-04 did for other type XTS breakers. Any information on previously unreported events of sluggish operation of all breaker types would be useful to the NRC.

The information from these plants shows that in some instances breaker trip operation and timing may be erratic when breakers are tested by tripping the UV trip attachment. Although all of the GE AK-2 breakers did trip at Calvert Cliffs, the breaker trip times varied significantly from one test to the next. At McGuire, a Westinghouse DS-416 breaker intermittently failed to trip on successive tests. At ANO 1, an AK-2 breaker which tested successfully in response to the IE bulletin, failed a few days later during unrelated activities. The root cause of these failures has not yet been determined.

NRC meetings and discussions with various regulatory review groups, licensees, and vendors have pointed out the importance of certain aspects of breaker operation, maintenance and design. The breaker tests at Calvert Cliffs 1 and 2 and Maine Yankee showed that although all of the AK-2 breakers did trip, the trip times of some breakers varied significantly from one test to the next, up to a maximum of approximately 25 seconds. This type of sluggish operation is not acceptable. There are some indications that if the pick-up voltage for the AK-2 UV device is not set accurately, sluggish and erratic response times may occur. It is our understanding that the proper response time of the AK-2 breaker is less than 100 milliseconds. General Electric has described problems with lubricants used in breakers which become sticky after about 100 months of exposure. RTS breaker tests of the UV attachment which measure trip times may be a means of detecting a precursor of failure of the breaker to trip.

Preliminary study of breaker problems indicates the necessity of regular, careful maintenance of RTS breakers. To reduce the likelihood of RTS breaker failure, Combustion Engineering and Babcox and Wilcox (in cooperation with General Electric), and Westinghouse have developed updated maintenance procedures which are expected to be available within a short time.

The NRC has met with both General Electric and Westinghouse and learned that there may be limitations associated with the design life of the UV devices and with the low design margin in terms of the torque available to trip the breaker by the UV device. Periodic replacement of UV devices may be necessary due to wear. Consultation with the vendor is recommended. The torque available to trip the General Electric AK-2 breaker by the UV device is critical to proper operation. General Electric has indicated that breaker trip bar torque measurements are needed periodically (quarterly) to detect the onset of problems.

Preliminary review of the Salem event has pointed to one other area of plant operations that is important for detecting RTS breaker operational degradation and for preventing failures. The Salem precursor event of February 22, 1983,

was not recognized as a failure until after the February 25 event. A thorough post-trip analysis including close scrutiny of the events recorder, could have detected the problem associated with RTS breakers.

It is suggested that holders of operating licenses or construction permits review this information for applicability to their facilities.

No written response to this notice is required. If you have any questions regarding this matter, please contact the Regional Administrator of the appropriate Regional Office, or this office.

Edward L. Jordan, Director
Division of Emergency Preparedness
and Engineering Response
Office of Inspection and Enforcement

Technical Contact: G. Lanik, IE
(301) 492-9636

Attachment:
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LIST OF RECENTLY ISSUED
IE INFORMATION NOTICES

Information Notice No.	Subject	Date of Issue	Issued to
83-17	Electrical Control Logic Problem Resulting in Inoperable Auto-Start of Emergency Diesel Generator Units	03/31/83	All power reactor facilities holding an OL or CP
83-16	Contamination of the Auburn Steel Property with Cobalt-60	03/30/83	All Material licensees
83-15	Falsified Pre-Employment Screening Records	03/25/83	All power reactor facilities holding an OL or CP
83-14	Dewatered Spent Ion Exchange Resin Susceptibility to Exothermal Chemical Reaction	03/21/83	All power reactor facilities holding an OL or CP
83-13	Design Misapplication of Bergen-Paterson Standard Strut Restraint Clamp	03/21/83	All power reactor facilities holding an OL or CP
83-12	Incorrect Boron Standards	03/18/83	All power reactor facilities holding an OL or CP
83-11	Possible Seismic Vulnerability of Old Lead Storage Batteries	03/14/83	All power reactor facilities holding an OL or CP
83-10	Clarification of Several Aspects Relating to Use of NRC-Certified Transport Packages	03/11/83	All NRC-licensed facilities and registered users of NRC-Certified transport packages
83-09	Safety and Security of Irradiators	03/09/83	All power reactor facilities holding an OL or CP
83-08	Component Failures Caused by Elevated DC Control Voltage	03/09/83	All power reactor facilities holding an OL or CP

OL = Operating License

CP = Construction Permit

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GROUP # 01 TYPE LABELS - 3 NRC: CNT: 205 BULK # 651 99999	SELECTION-00000010 SETS - 01 TOTL CNT = 2855 BULK = 3367	WOB NOL110 WO DATE = 04/20/83 DATE COMPLETED = 04/20/83	TIME COMPLETED = 1418
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219320005428 1 NOL110 MARJORIE M AAMOOT R D 45 COATESVILLE PA 19320	202109000444 1 NOL110 WILLIAM S ABBOTT ATTORNEY & COUNSELLOR AT LAW 50 CONGRESS STREET SUITE 925 BOSTON MA 02109	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX
217120005319 1 NOL110 ROBERT W ADLER ASST ATTNY GEN BUR OF REG ENCL 505 EXEC HOUSE PO BOX 2357 HARRISBURG PA 17120	291401000949 1 NOL110 ELIZABETH APFELBERG 1419 COZADERO SAN LUIS OBISPO CA 93401	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX
143220081505 1 NOL110 THOMAS APPLEGATE 3950 WOODBRIDGE RD OH 43220	232217006295 1 NOL110 MITCHELL ATTALLA 4028 PONCE DELEON AVE JACKSONVILLE FL 32217	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX
249720005503 1 NOL110 JOANN RIER 204 CLINTON ST CHARLEVOIX MI 49720	265061006491 1 NOL110 SAMUEL J BIRK RR #1 BOX 243 MORRISON MO 65061	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX
228202005490 1 NOL110 SHELLY BLUM 730 E TRADE ST 223 LAW BLDG CHARLOTTE NC 28202	261801001587 1 NOL110 C ALLEN BOCK ESQUIRE PO BOX 342 URBANA IL 61801	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX

GROUP # 01	TYPE LABELS - 3	SELECTION-00000010 SETS - 01	WOW NO1110 WD DATE - 042083	
NRC: CNT = 205	BULK = 651	TOT: CNT = 2855 BULK = 3367	DATE COMPLETED - 04/20/83	TIME COMPLETED - 1418
99999				
219320005428	1 NO1110	202109000446 1 NO1110	WILLIAM S ARBOTT	
MARJORIE M AAMOOT	R D #5	ATTORNEY & COUNSELLOR AT LAW	50 CONGRESS STREET	
COATESVILLE	PA 19320	SUITE 925	BOSTON MA 02109	
217120005319	1 NO1110	291401000949 1 NO1110	ELIZABETH APFELBERG	
ROBERT W ADLER	ASST ATTNY GEN BUR OF REG CNCL	1415 COZADERO	SAN LUIS OBISPO CA 93401	
505 EXEC HOUSE PO BOX 2357	HARRISBURG PA 17120			
143220081505	1 NO1110	232217006296 1 NO1110	MICHELL ATTALLA	
THOMAS APPLEGATE	3950 WOODBRIDGE RD	4028 PONCE DELEON AVE	JACKSONVILLE FL 32217	
COLUMBUS OH 43220				
249720005503	1 NO1110	265061006491 1 NO1110	SAMUEL J BIRK	
JOANN BIER	204 CLINTON ST	RR #1 BOX 243	MORRISON MD 65061	
CHARLEVOIX MI 49720				
228202005490	1 NO1110	261801001587 1 NO1110	C ALLEN BOCK	
SHELLY BLUM	730 E TRADE ST 223 LAW BLDG	ESQUIRE	PO BOX 342 URBANA IL 61801	
CHARLOTTE NC 28202				
111778066814	1 NO1110	217102007111 1 NO1110	LOUISE BRADFORD	
RONALD BOMMER	10 WALNUT ROAD	1011 GREEN ST	HARRISBURG PA 17102	
ROCKY POINT NY 11778				
265262006490	1 NO1110	229076000867 1 NO1110	BRETT A BURSEY	
EARL BROWN	SCHOOL DISTRICT SUPERINTENDENT	ROUTE 1 BOX 93-C	LITTLE MOUNTAIN SC 29076	
PO BOX 9	KINGDOM CITY MO 65262			
208080000246	1 NO1110	292672001263 1 NO1110	CITY OF SAN CLEMENTE	
DAVID A CACCIA	RD 2 BOX 70	GEORGE CARVALHO	CITY MANAGER	
SEWELL NJ 08080		100 AVENIDO PRESIDIO	SAN CLEMENTE CA 92672	
292037005012	1 NO1110	103060082614 1 NO1110	DOLORES CHACOS	
A S CARSTENS	2071 CAMINITO CIRCULO NORTE	340 NOWELL ST	NASHUA NH 03060	
MT LA JOLLA CA 92037				
161103082141	1 NO1110	266839005472 1 NO1110	WANDA CHRISTY	
DIANE CHEVEZ	326 N AVON ST	515 N 1ST ST	BURLINGTON KS 66839	
ROCKFORD IL 61103				
202038005482	1 NO1110	211788005094 1 NO1110	COUNTY EXEC/LEGISLATIVE BLDG	
ALAN R CLEETON	22 MACKINTOSH ST			

217120005444	1 NO1110	208070005643	1 NO1110
MARK COHEN		ALFRED C COLEMAN	
S12 E-3 MAIN CAPITAL BLDG		ELEANOR G COLEMAN	
HARRISBURG	PA 17120	35 K DRIVE	
		PENNNSVILLE	NJ 08070
115228055512	1 NO1110	233433006203	1 NO1110
JAMES COOKINHAM		FREDERICK P COWAN	
100 ROYALCROFT AVE		6152 VERDE TRAIL	
PITTSBURGH	PA 15228	BOCA RATON	FL 33431
103833057219	1 NO1110	274119005186	1 NO1110
JUNE M DAIGNEAULT		ANDREW T DALTON JR	
14 WOODLAWN CIRCLE		ESQ	
EXETER	NH 03833	1437 SOUTH MAIN STREET	OK 74119
147250010048	1 NO1110	247250001461	1 NO1110
THOMAS M DATTILO		THOMAS M DATTILO	
ATTORNEY AT LAW		ESQUIRE	
311 E MAIN STREET		311 EAST MAIN STREET	
MADISON	IN 47250	MADISON	IN 47250
221613005335	1 NO1110	185027032286	1 NO1110
RALPH S DECKER		STEPHEN DI CENSO	
ROUTE 4 BOX 1900		19203 N 29TH AVE NO 465	
CAMBRIDGE	MD 21613	PHOENIX	AZ 85027
222042007070	1 NO1110	228461005902	1 NO1110
MARGARET DIETRICH		CHARLES R DIETZ	
ROUTE 2 BOX 368		PLANT MANAGER	
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		SOUTHPORT	NC 28461
163130040077	1 NO1110	146514066158	1 NO1110
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UNIVERSITY CITY	MO 63130	ELKHART	IN 46514
227705007049	1 NO1110	227602000487	1 NO1110
WELLS EDDLEMAN		THOMAS ERWIN	
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		RALEIGH	NC 27602
1606300B0001	1 ND1110	185282062527	1 NO1110
JOHN J FINERTY		WILLIAM G FISHER	SUITE
2355 W WINDSOR AVE		2039 EAST BROADWAY RD	
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		TEMPE	AZ 85282
120006091029	1 NO1110	298440000948	1 NO1110
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1735 EYE ST NW		1980 MAITIE ROAD	
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180210001343	1 NO1110	181801091021	1 NO1110
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DENVER	CO 80210		
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248640001423 1 N01110
WENDELL MARSHALL
ROUTE 10
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103051064402 1 N01110
RINA PETIT
RFD 4 132 PAGE RD
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2124 WACHOVIA BLDG
WINSTON-SALEM NC 27101
270893007081 1 N01110
JAMES W PIERCE
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BATON ROUGE LA 70893

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H PLETTINGER
712 CAROL MARIE DR
BATON ROUGE LA 70806
219348005334 1 N01110
LAWRENCE R QUARLES
KENDAL AT LONGWOOD APT 51
KENNETH SQUARE PA 19348

265262006110 1 N01110
JOHN G REED
PA 19348

216801005400... 1 N01110

248103005173	1 NO1110	154303082318	1 NO1110
WILLIAM J SCANLON 2034 PAULINE BLVD ANN ARBOR	MI 48103	RONALD V SCHEELE RADIATION PHYSICIST 533 W CHICKADEE LA GREEN RAY	WI 54303
187112082340	1 NO1110	219475006439	1 NO1110
LOUIS SCHIFFMAN 10068 MENAUL NE APT E-15 ALBUQUERQUE	NM 87112	JOHN SHNIPER MEETING HOUSE LAW BLDG MENNOMITE CHURCH RD-RT 724 SPRING CITY	PA 19475
160172064217	1 NO1110	293401000945	2 NO1110
KEITH H SIEGEL 531 DEE LANE ROSELLE	IL 60172	GORDON A SILVER SANDRA A SILVER 1760 ALISAL STREET SAN LUIS OBISPO	CA 93401
266205006523	1 NO1110	148640021864	1 NO1110
JOHN M SIMPSON ATTORNEY FOR INTERVENORS 4400 JOHNSON DR SUITE 110 SHAWNEE MISSION	KS 66205	MARY SINCLAIR 5711 SOMERSET DRIVE MIDLAND	MI 48640
214618005398	1 NO1110	248523005178	1 NO1110
MICHAEL SLADE 12 TRAILWOOD CIRCLE ROCHESTER	NY 14618	BARBARA STAMIRIS 5795 N RIVER FREELAND	MI 48623
265024006487	1 NO1110	249503005388	1 NO1110
HOWARD STEFFEN MAYOR CHAMOIS	MO 65024	PETER W STEKETEE 505 PEOPLES BUILDING GRAND RAPIDS	MI 49503
106114081138	1 NO1110	228422006569	1 NO1110
ROBYN TAYLOR 39 WHITMORE NO 2 HARTFORD	CT 06114	FRANKY THOMAS CHAIRMAN-BD OF COMMISSIONERS PO BOX 249 BOLIVIA	NC 28422
1CANAD079706	1 NO1110	294302006000	1 NO1110
CHRIS TOOHEY 37 LOCKDARE STREET--AGINCOURT ONTARIO M1S 2Z5	CANADA	PAUL C VALENTINE 321 LYTON AVENUE PALO ALTO	CA 94302
260602006323	1 NO1110	260601005360	1 NO1110
ROBERT J VOLLEN 109 NORTH DEARBORN CHICAGO	IL 60602	N REGION ENVR CONTROL DIV JOHN V VRANKEN 188 WEST RANDOLPH STREET CHICAGO	IL 60601
133450090001	1 NO1110	120815029135	1 NO1110
BETTY LOU WELLS 1124 JASMINE AVE FT PIERCE	FL 33450	SEYMOUR WENNER 4807 MORGAN DRIVE ASLB CHEVY CHASE	MD 20815
219404001255	1 NO1110	161010082236	1 NO1110
FREDERIC M WENTZ COUNTY SOLICITOR MONTGOMERY COUNTY COURTHOUSE NORRISTOWN	PA 19404	WILLIAM WHITAKER BOX D RYDON	IL 61010

JOHN WILLIAMSON
211 FOREST DRIVE
LINWOOD
NJ 08221

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227502007046 1 N01110
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244108006126 1 N01110
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220015001629 1 N01110
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243112005185 1 N01110
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205354007093 1 N01110
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VT 05354

195490052914 1 N01110
ABEX CORP
REMCO HYDRAULICS DIV
R STRAIT
NUCLEAR PROJECT COORD
934 S MAIN ST
WILLITS CA 95490

165237064624 1 N01110
ACCESS CORP
D E MERCHANT
NORTHEAST MARKET MANAGER
4815 PARA DRIVE
CINCINNATI OH 45237

177042055303 1 N01110
ACF INDUSTRIES INC
WKR VALVE DIVISION
R V HOPKINS
MGR-RELIABILITY PRODUCT ASSR
3663 BRIARPARK
HOUSTON TX 77042

177459053152 1 N01110
ACF INDUSTRIES INC
W-K-W VALVE DIVISION
C E MORCATE
QA MANAGER
16500 SOUTH MAIN ST
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2926720000874 1 N01110
ADVOCATE FOR GUARD
LYN M HICKS
MS
3908 CALLE ARIANA
SAN CLEMENTE CA 92672

199352056854 1 N01110
AEC INC
RICHARD WONG
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1955 JADWIN AVE
SUITE 470
RICHLAND WA 99352

172203063658 1 N01110
AFCO STEEL INC
ROBERT F DATES
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PO BOX 231
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219002006465 1 N01110
AIR & WATER POLLUTION PATROL
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61 FOREST AVENUE
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236104005842 1 N01110
ALABAMA DEPT OF PUBLIC HEALTH
STATE HEALTH OFFICER
STATE OFFICE BUILDING
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136130056611 1 N01110
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236420006551 1 N01110
ALABAMA ELECTRIC CO
CHARLES R LOWMAN
PO BOX 550
ANDALUSIA AL 36420

135291081005 1 N01110
ALABAMA POWER CO
PO BOX 2641
BIRMINGHAM AL 35291

136319080531 1 N01110
ALABAMA POWER CO
FARLEY 1 NPS
PLANT MANAGER
COLUMBIA AL 36319

136319080842 1 N01110
ALABAMA POWER CO
FARLEY 2 NPS
PLANT MANAGER
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235291005928 1 N01110
ALABAMA POWER CO
F L CLAYTON
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135291006787 1 N01110
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POWER GENERATION
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210004005695 1 NO1110
AMERICAN ELEC POWER SVC CORP
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106032037866 1 NO1110
AMERICAN NUCLEAR INSURERS
PROPERTY ENGINEERING DEPT
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FARMINGTON CT 06032

192021053502 1 NO1110
ANETEK INC
STRATA DIV
N J PEET
QA DIRECTOR
790 GREENFIELD DRIVE
EL CAJON CA 92021

206930053501 1 NO1110
ANACONDA-ERICSSON INC
HERB S ANDERSON
MGR-ENVIRON SAFETY & HEALTH
GREENWICH OFFICE PART 3
GREENWICH CT 06830

194402052923 1 NO1110
ANCHOR DARLING VALVE CO
SALES DIVISION
R T MEKK
VICE PRESIDENT
1650 S AMPHLETT BLVD 8319
SAN MATEO CA 94402

177401081434 1 NO1110
ANDERSON GREENWOOD & CO
INDUSTRIAL PRODUCTS DIVISION
TED RODENBAUGH
PO BOX 3097
BELLAIRE TX 77401

111AY081551 1 NO1110
ANSALDO SPA DBQ
TULLIO BADINO
DIP VINCENZO
VIALE SARCA 336
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125117002966 1 NO1110
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F Z COMBS
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118 SKINNER DRIVE
ST ALBANS WV 25117

195030066339 1 NO1110
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ROBERT PETROKAS
PRESIDENT
15425 LOS GATOS BLVD
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129115051926 1 NO1110
APPLIED ENGINEERING CO INC
S METTA
QA MANAGER
1525 CHARLESTOWN ROAD
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R J BERTLING
100 HICKORY STREET
100 HICKORY STREET
GRAFTON WI 53024

110004206130 1 NO1110
AMERICAN ELEC POWER SVC CORP
NUCLEAR ENGINEERING
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117404052922 1 NO1110
ANACONDA CO
CONTINENTAL WIRE AND CABLE COR
QUALITY ASSURANCE MANAGER
GULTON ROAD
YORK PA 17404

117701002849 1 NO1110
ANCHOR DARLING VALVE CO
W G KNECHT
TECHNICAL DIRECTOR
TOI FIRST ST
WILLIAMSPORT PA 17701

177036052925 1 NO1110
ANDERSON GREENWOOD & CO
GC DONEGAN
G C DENOGAN
QA MANAGER
5425 SOUTH RICE AVENUE
HOUSTON TX 77036

306877031780 1 NO1110
ANEFCO INC
J D MURPHY
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217404005427 1 NO1110
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130080067150 1 NO1110
APPLIED PHYSICAL TECHNOLOGY
NUCLEAR DATA POWER DIV
SUE MALTESE
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SUITE 125

LINDENAUER
P O BOX 2528
IDAHO FALLS ID 83401

160439005948 1 NO1110
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PALO VERDE 1 NPS
PLANT MANAGER
PHOENIX AZ 85001

185001080503 1 NO1110
ARIZONA PUBLIC SERVICE CO
PALO VERDE 3 NPS
PLANT MANAGER
PHOENIX AZ 85001

185001080502 1 NO1110
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PALO VERDE 3 NPS
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185036081095 1 NO1110
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285036001550 1 NO1110
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272201005814 1 NO1110
ARKANSAS BUREAU ENVR HLTH SVC
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272801007100 1 NO1110
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172801080569 1 NO1110
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ARKANSAS 1 NPS
PLANT MANAGER
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172801080570 1 NO1110
ARKANSAS POWER & LIGHT CO
ARKANSAS 2 NPS
PLANT MANAGER
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272203005815 1 NO1110
ARKANSAS POWER & LIGHT CO
ENERGY SUPPLY
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172203005004 1 NO1110
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ENERGY SUPPLY
W CAVANAUGH III
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172801064687 1 NO1110
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172801079376 1 NO1110
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ARKANSAS NUCLEAR ONE
JIM M LEVINE
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272203005808 1 NO1110
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MD 65801

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NJ 07013

120603081899 1 NO1110
ATHENIANS FOR CLEAN ENERGY
TOM CLEMENTS
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ATHENS
GA 30603

109604005789 1 NO1110
ATLANTIC CITY ELECTRIC CO
FRANK J. FICANDENTE
SR. VICE PRESIDENT
1600 PACIFIC AVE
ATLANTIC CITY
NJ 08404

123502056821 1 NO1110
ATLANTIC NUCLEAR SERVICES INC
ALAN SONNER
PO BOX 12716
NORFOLK
VA 23502

107012052931 1 NO1110
ATLAS INDUSTRIAL MFG CO
F. DELDRENZO
QA MANAGER
81 SOMERSET PLACE
CLIFTON
NJ 07012

1TAIWAD67161 1 NO1110
ATOMIC ENERGY COUNCIL
VICTOR CHEN-HWA CHENG
ADMINISTRATOR
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TAIPEI 107 TAIWAN

1CANAD056819 1 NO1110
ATOMIC ENERGY OF CANADA LTD
LIBRARY
SUSAN NISH
1600 DORCHESTER BLVD WEST
H3H 1P9
MONTREAL QUEBEC CANADA

120814040062 1 NO1110
ATOMIC INDUSTRIAL FORUM
TECHNICAL DEPT
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107932079111 1 NO1110
AUTOMATIC SWITCH CO
WILLIAM M. BROWN
SUPERVISOR-GOV'T & NUCLEAR SALE
HANOVER ROAD
FLORHAM PARK NJ 07932

120910038054 1 NO1110
AUTOMATION INDUSTRIES INC
VITRO LABORATORIES DIVISION
JAY TEND
14000 GEORGIA AVE
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SILVER SPRING MD 20910

1CANAD053197 1 NO1110
B & W CANADA LTD
GALT ONTARIO CANADA

162249052949 1 NO1110
B LINE SYSTEMS INC
ED O' MALLEY
QA MANAGER
509 WEST MONROE STREET
HIGHLAND IL 62249

124505082348 1 NO1110
BABCOCK & WILCOX CO
COMMERCIAL NUCLEAR FUEL PLANT
LYNCHBURG VA 24505

144203052935 1 NO1110
BABCOCK & WILCOX CO
NED-DIST
91 STIRLING PO BOX 271
BARBERTON OH 44203

124505065892 3 NO1110
BABCOCK & WILCOX CO
NUCLEAR POWER GENERATION DIV
LIBRARY
PO BOX 1260
LYNCHBURG VA 24505

124505001577 1 NO1110
BABCOCK & WILCOX CO
RESEARCH & DEVELOPMENT DIV
LICENSE ADMINISTRATOR
PO BOX 1260
LYNCHBURG VA 24505

124505080963 1 NO1110
BABCOCK & WILCOX CO
VIRGINIA OPERATIONS
RA ALTO
MANAGER-NUC MATLS & MANU DIV
PO BOX 800
LYNCHBURG VA 24505

120814001431 1 NO1110
BABCOCK & WILCOX CO
POWER GENERATION GROUP
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220814005115 1 NO1110
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144601081396 1 NO1110
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124505001578 1 NO1110
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LICENSING NP GEN DIV
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224505001343 1 NO1110
BABCOCK & WILCOX CO
R. A. WALLIN
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224505001346 1 NO1110
BABCOCK & WILCOX CO
WPSS - PERLE SPRINGS
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121203079435 1 NO1110
BALTIMORE GAS & ELECTRIC CO
CALVERT CLIFFS NUC POWER PLANT
LEON B RUSSELL
PLANT SUPERINTENDENT
LUSBY MD 20657

121203079435 3 NO1110
BALTIMORE GAS & ELECTRIC CO
J A TIERNAN
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191749052940 1 NO1110
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143201064637 1 NO1110
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AGR ADMIN & INFO SERVICES
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199352006329 1 NO1110
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ACRS
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248104082403 1 NO1110
BECHTEL POWER CORP
CENTRAL LIBRARY
777 E EISENHOWER PKWY
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177252006455 1 NO1110
BECHTEL POWER CORP
POWER LIBRARY
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194119064588 1 NO1110
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177252082166 1 NO1110
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148106052944 1 NO1110
BECHTEL POWER CORP
J T DOTSON
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ANN ARBOR MI 48106

227001007067 1 NO1110
BECHTEL POWER CORP
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120877064676 1 NO1110
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F P JONES
SUPERVISOR REC MGMT

121203079435 1 NO1110
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CALVERT CLIFFS NPS
J A TIERNAN
MANAGER-NUCLEAR POWER DEPT
MARYLAND RATES 2 & 4
LUSBY MD 20657

195060063860 1 NO1110
BARDON & ASSOCIATES INC
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143201082125 1 NO1110
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NUCLEAR TECH & PHYS SCI DEPT
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299352006415 1 NO1110
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WALT APLEY
C/O MAX CLAUSEN
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148104001113 1 NO1110
BECHTEL POWER CORP
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LIBRARIAN
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194119064724 1 NO1110
BECHTEL POWER CORP
INFO LIBRARY
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294119006280 1 NO1110
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120877026694 1 NO1110
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190650082510 1 NO1110
BECHTEL POWER CORP
DOCUMENT PROCESSING LAPD
EDNA DOMKOWSKI
12400 E IMPERIAL HWY BLDG 44
NORWALK CA 90650

190060001126 1 NO1110
BECHTEL POWER CORP
LOS ANGELES POWER DIVISION
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177252084612 1 NO1110
BECHTEL POWER CORP
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294119006457 1 NO1110
BECHTEL POWER CORP
G B JONES
PROJECT MANAGER

DELMARLE CORP. LIND
LOS ANGELES POWER DIVISION
B. J. WELLS
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PO BOX 2166 TX 77252

129360052946 1 N01110
BENJAMIN F SHAW CO
PLANT-FABRICATION
LEONARD P SMEAL
VP-QUALITY ASSURANCE
P O BOX 169
LAURENS SC 29360

194526052095 1 N01110
BERGEN PATERSON PIPE SUPPORT CO
WILLIAM HOWARD
WEST COAST SALES MANAGER
710 EL CAPITAN DR
DANVILLE CA 94526

218016001445 1 N01110
BETHLEHEM STEEL CORP
MEREDITH HERPHILL
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BETHLEHEM PA 18016

249720005383 1 N01110
BIG ROCK POINT NUC POWER PLANT
PLANT SUPERINTENDENT
CHARLEVOIX MI 49720

102125052954 1 N01110
BIW CABLE SYSTEMS INC
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PRESIDENT
65 BAY STREET
BOSTON MA 02125

264114005181 1 N01110
BLACK E VEATCH
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211801001412 1 N01110
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198124052953 1 N01110
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197208029759 1 N01110
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190749078990 1 N01110
BORG WARNER CORP
BYRON JACKSON PUMP DIVISION
MERRITT HUGINS
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190749077817 1 N01110
BORG WARNER CORP
BYRON JACKSON PUMP DIVISION
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103246053738 1 N01110
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LACONIA NH 03246

202110006058 1 N01110
BERMAN & LEWENBERG
FRANCIS S WRIGHT
211 CONGRESS STREET
BOSTON MA 02110

11INDIAD03464 1 N01110
BHARJA ATOMIC RESEARCH CENTRE
LIBRARY & INFO SERVICES
M K KELKAR
SCIENTIFIC OFFICER SE
TOMRAY
BOMBAY 400 085 INDIA

197210052948 1 N01110
BINGHAM WILLAMETTE CO
GUY F ATKINSON CO
D J ROVE
QA MANAGER
2800 N W FRONT AVENUE
PORTLAND OR 97210

164114001128 1 N01110
BLACK E VEATCH
LEO HACK
LIBRARIAN
1500 MEADOW LAKE PKWY
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164114021969 1 N01110
BLACK E VEATCH
POWER
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P O BOX 8405
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1WGERMD005318 1 N01110
BNFT
REACTOR SAFETY
HEINZ SETPEL
ADMINISTRATOR
HEINEMANNSTRASSE 2
5300 BONN 2 WGERMANY

122180064704 1 N01110
BOEING COMPUTER SERVICES
ENERGY TECH APPL
S G LINEKER
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CV-31
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1CANAD052964 1 N01110
BORG WARNER CORP
BYRON JACKSON DIV
JACK ANDERSON
SUPVR-REM ENGINEERING
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ONTARIO M4C 5J1 CANADA

191409053079 1 N01110
BORG WARNER CORP
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190058052965 1 N01110
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202199006073 1 N01110
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800 BOYLSTON STREET
BOSTON MA 02199

194601063657 1 N01110
BOSTRON-BERGEN METAL PRODUCTS
D RIDGE
QA MANAGER
4700 COLISEUM WAY
OAKLAND CA 94601

102141052526 1 N01110
BP TECHNICAL SERVICES
18 HURLEY STREET
CAMBRIDGE MA 02141

106226052955 1 N01110
BRAND REX CO
WIRE & CABLE DIVISIONS
P PETRUCHIK
PRESIDENT W E C DIVS
PO BOX 498
WILLIMANTIC CT 06226

175081063099 1 N01110
BRANT & ASSOCIATES
WILLIAM A BRANT
1513 BARCLAY
RICHARDSON TX 75081

220036006105 1 N01110
BRICH HORTON BITTNER & MONROE
ERIC A EISEN
1140 CONNECTICUT AVE NW
SUITE 1100
WASHINGTON DC 20036

124201052957 1 N01110
BRISTOL STEEL & IRON WORKS
PLANT 63
G W ROBERTS
QA MANAGER
BRISTOL/WASH COUNTY INDUST PK
BRISTOL VA 24201

111973005037 1 N01110
BROOKHAVEN NATIONAL LABORATORY
NUCLEAR SAFETY LIBRARY
LIBRARIAN
BLDG 130
UPTON NY 11973

111973066851 1 N01110
BROOKHAVEN NATIONAL LABORATORY
REACTOR DIVISION
W J BRYNDA
UPTON
BLDG 703
LONG ISLAND NY 11973

111973030913 1 N01110
BROOKHAVEN NATIONAL LABORATORY
ASSOC UNIVERSITIES INC
LEONARD C EMMA
ASSISTANT TO THE DIRECTOR
UPTON NY 11973

177001064710 1 N01110
BROWN & ROOT INC
P H DARLAND
MANAGER RECORDS MGMT DEP
PO BOX 3 01-362
HOUSTON TX 77001

177001064762 1 N01110
BROWN & ROOT INC
P JORDAN
PO BOX 3
HOUSTON TX 77001

177001064659 1 N01110
BROWN & ROOT INC
RICHARD P NEGRI
ASSISTANT QA MANAGER
PO BOX 3
HOUSTON TX 77001

177001064728 1 N01110
BROWN & ROOT INC
J E PADEN
MGR ENG DOCUMENTATION
PO BOX 3 BLDG 41
HOUSTON TX 77001

177001052958 1 N01110
BROWN & ROOT INC
POWER
W M RICE
GROUP VICE PRESIDENT
POST OFFICE BOX 3
HOUSTON TX 77001

119477053734 1 N01110
BROWN BOVERI ELECTRIC INC
SWITCHGEAR SYSTEMS DIV
D D DUVALL
VICE PRESIDENT
ROUTE 309 E NORRISTOWN ROAD
SPRING HOUSE PA 19477

1NGERM053329 1 N01110
BROWN BOVERI REAKTOR GMBH
ABT TPE 14
FACHBUCHEREI
DUEDENSTR 44
6800 MANNHEIM 1 WGERMANY

240202000508 1 N01110
BROWN TODD & HEYBURN
JOSEPH B HELM
ESQUIRE
16TH FLOOR CITIZENS PLAZA
LOUISVILLE KY 40202

106856057905 1 N01110
BURNDY CORP
POWER
M R MONASHKIN
CONN AND RICHARDS AVE
203
NORWALK CT 06856

107649006086 1 N01110
BURNS & ROE INC
S RARON
700 KINDERKAMACK ROAD
DRADFELL NJ 07649

299352006467 1 N01110
BURNS & ROE INC
W G CONN
N/M GROUP SUPERVISOR
501 KILLIAN DR

107649064616 1 N01110
BURNS & ROE INC
S A JORDAN
STAFF ADMINISTRATION

KALIFORNIA HEALTH BRANCH JOE WARD CHIEF 714 P STREET SACRAMENTO	CA 95814	SITTING ENVIRONMENTAL ER DETTER DIV CHIEF 1111 HOWE AVENUE SACRAMENTO	CA 95825
295825006094 1 NO1110 CALIFORNIA ENERGY COMMISSION CHRISTOPH ELLISON 1111 HOWE AVENUE SACRAMENTO	CA 95825	295814005986 1 NO1110 CALIFORNIA LEGAL AFFAIRS SECY BRYON S GEORGIOU STATE CAPITAL-GOVERNORS OFFICE SACRAMENTO	CA 95814
195814057457 1 NO1110 CALIFORNIA OFFICE OF GOVERNOR ENERGY & ENVIRONMENT PHILLIP A GREENBERG 1600 9TH ST ROOM 134 SACRAMENTO	CA 95814	294102006009 1 NO1110 CALIFORNIA PUBLIC UTILITY COM LAWRENCE Q GARCIA 5066 STATE BLDG SAN FRANCISCO	CA 94102
294102007066 1 NO1110 CALIFORNIA PUBLIC UTILITY COM JANICE E KERR 350 MCALLISTER ST SAN FRANCISCO	CA 94102	195814080938 1 NO1110 CALIFORNIA RESOURCES AGENCY HUEY D JOHNSON SECRETARY FOR RESOURCES 1416 9TH STREET ROOM 1311 SACRAMENTO	CA 95814
220003005766 1 NO1110 CALIFORNIA STATE OFFICE ELEANOR SCHWARTZ 600 PENNSYLVANIA AVE SE RM 201 WASHINGTON	DC 20003	195630078956 1 NO1110 CALIFORNIANS FOR SAFE ENERGY ELLIS S TRAUBER CHAIRMAN 3673 MESA VERDE AVE EL DORADO HILLS	CA 95630
210016001415 1 NO1110 CAMMER & SHAPIRO RALPH SHAPIRO ESQUIRE 9 EAST 40TH STREET NEW YORK	NY 10016	191361079030 1 NO1110 CANYON RESEARCH GROUP INC ERNEST J CONWAY 741 LAKEFIELD ROAD SUITE B WESTLAKE VILLAGE	CA 91361
119004052967 1 NO1110 CAPITAL PIPE & STEEL PRODUCT EDWARD NAUGHTON MANAGER TECHNICAL SERVICE 301 CITY LINE AVENUE BALA CYNWYD	PA 19004	228208000669 1 NO1110 CAROLINA ENVIRON STUDY GROUP JESSE L RILEY PRESIDENT 954 HENLEY PLACE CHARLOTTE	NC 28208
127602080900 1 NO1110 CAROLINA POWER & LIGHT CO 411 FAYETTEVILLE ST RALEIGH	NC 27602	128461080559 1 NO1110 CAROLINA POWER & LIGHT CO BRUNSWICK 2 NPS PLANT MANAGER SOUTHPORT	NC 28461
127562080545 1 NO1110 CAROLINA POWER & LIGHT CO HARRIS 1 NPS PLANT MANAGER NEW HILL	NC 27562	127562080544 1 NO1110 CAROLINA POWER & LIGHT CO HARRIS 2 NPS PLANT MANAGER NEW HILL	NC 27562
129550080516 1 NO1110 CAROLINA POWER & LIGHT CO ROBINSON 2 NPS PLANT MANAGER HARTSVILLE	SC 29550	227602006390 1 NO1110 CAROLINA POWER & LIGHT CO CHARLES D BARHAM V PRESIDENT & SENIOR COUNSEL PO BOX 1551 RALEIGH	NC 27602
128461080961 1 NO1110 CAROLINA POWER & LIGHT CO BRUNSWICK NPS C R DIETZ PLANT MANAGER BOX 458 SOUTHPORT	NC 28461	227602000897 1 NO1110 CAROLINA POWER & LIGHT CO RICHARD JONES ESD ASSOCIATE GENERAL COUNSEL 411 FAYETTEVILLE ST MALL RALEIGH	NC 27602
127562080899 1 NO1110 CAROLINA POWER & LIGHT CO HARRIS NPS R M PARSONS PROJECT GENERAL MANAGER BOX 101		129550080894 1 NO1110 CAROLINA POWER & LIGHT CO ROBINSON 2 NPS R B STARKEY PLANT GENERAL MANAGER	

CENTRE D'ETUDES NUCLEAIRES
DEPT DE SURETE NUCLEAIRE
GABRIELLE KATZ
BP NO 6
92-260
FONTENAY-AUX-ROSES FRANCE

105404053041 1 NO1110
CHAMPLAIN CABLE CCRA
WIBE & CABLE DIVISION
C L MARTIN
PO BOX 7
WINDOSKI VT 05404

102199067190 1 NO1110
CHARLES T MAIN INC
THERMAL POWER DIVISION
J H NOBLE
PRUDENTIAL CENTER
BOSTON MA 02199

228207007020 1 NO1110
CHARLOTTE MECKLENBURG ENV COAL
HENRY PRESLER
CHAIRMAN
943 HENLY PLACE
CHARLOTTE NC 28207

160410082477 1 NO1110
CHEM NUCLEAR SYSTEMS INC
MICHEAL J BENJAMIN
PO BOX 293
CHANNAHON IL 60410

221218005421 1 NO1110
CHESAPEAKE ENERGY ALLIANCE
ROBERT O POLLARD
609 MONTPELIER STREET
BALTIMORE MD 21218

135201052971 1 NO1110
CHICAGO BRIDGE & IRON CO
WELDING & QA DEPT
PO BOX 277
BIRMINGHAM AL 35201

120006082259 1 NO1110
CHUBA ELECTRIC POWER CO INC
900 17TH ST NW SUITE 714
WASHINGTON DC 20006

145153080576 1 NO1110
CINCINNATI GAS & ELECTRIC CO
ZIMMER I NPS
PLANT MANAGER
MOSCOW OH 45153

145201079120 1 NO1110
CINCINNATI GAS & ELECTRIC CO
NUCLEAR SERVICES DEPT
K K CHITKARA
MANAGER
PO BOX 960
CINCINNATI OH 45201

145153080925 1 NO1110
CINCINNATI GAS & ELECTRIC CO
WM H EININGER NUCLEAR STATION
J R SCHOTT
PLANT MANAGER
PO BOX 201
MOSCOW OH 45153

274107005184 1 NO1110
CITIZENS ACT FOR SAFE ENER INC
CARRIE DICKERSON
PO BOX 924
FLA 33486

CHACKES & HOARE
KENNETH M CHACKES
ATTY FOR JOINT INTERVENORS
314 N BROADWAY
ST LOUIS MO 63102

227514007042 1 NO1110
CHANGE
DANIEL F READ
PRESIDENT
PO BOX 524
CHAPEL HILL NC 27514

125304063988 1 NO1110
CHARLESTON AREA MEDICAL CENTER
MEMORIAL DIV
RIDGELEY CONANT
DIRECTOR OF NUC MEDICINE
3200 MACCORKLE AVE SE
CHARLESTON WV 25304

129210066210 1 NO1110
CHEM NUCLEAR SYSTEMS INC
INFORMATION SPECIALIST
240 STONERIDGE DRIVE
SUITE 100
COLUMBIA SC 29210

260602005200 1 NO1110
CHERRY E FLYNN
MYRON CHERRY
THREE FIRST NATIONAL PLAZA
SUITE 3700
CHICAGO IL 60602

138113052969 1 NO1110
CHICAGO BRIDGE & IRON CO
2700 CHANNEL AVE P O BOX 13308
MEMPHIS TN 38113

260611005731 1 NO1110
CHICAGO METRO SANITARY DIST
CECIL LUE MING
DIRECTOR OF RESEARCH & DEV
100 EAST ERIE STREET
CHICAGO IL 60611

145219032023 1 NO1110
CINCINNATI ALLI FOR RESPON ENG
TOM CARPENTER
DIRECTOR
2270 VINE STREET
CINCINNATI OH 45219

145201082370 1 NO1110
CINCINNATI GAS & ELECTRIC CO
ENGR SVC & ELECT PROD
EARL A BORGmann
SENIOR VICE PRESIDENT
139 E 4TH ST
CINCINNATI OH 45201

145157082369 1 NO1110
CINCINNATI GAS & ELECTRIC CO
ZINNER NPS
JAMES D FLYNN
MANAGER-LIC ENVIR AFF DEPT
757 OLD US RTE 52
NEW RICHMOND OH 45157

145201082140 1 NO1110
CINCINNATI GAS & ELECTRIC CO
LEGAL DEPT
JEOPHRE A VENNEMANN
PO BOX 960
CINCINNATI OH 45201

145220081495 1 NO1110
CITIZENS AGAINST A RADIO ENVR
2699 CLIFTON AVE
CINCINNATI OH 45220

TELEGRAM - UTILITY DEPARTMENT
H L PETERSON
G POKORN
PO BOX 1088
AUSTIN TX 78767

219107005437 1 NO1110
CITY OF PHILADELPHIA
W W COODE
MANAGING DIRECTOR
PHILADELPHIA PA 19107

292672005376 1 NO1110
CITY OF SAN CLEMENTE
MAYOR
SAN CLEMENTE CA 92672

144081080499 1 NO1110
CLEVELAND ELEC ILLUMINATING CO
PERRY 1 NPS
PLANT MANAGER
PERRY OH 44081

144081081501 1 NO1110
CLEVELAND ELEC ILLUMINATING CO
PERRY NPS
L BECK
SUPERVISOR-LICENSING & FUELS
10 CENTER RD
PERRY OH 44081

244101001520 1 NO1110
CLEVELAND ELEC ILLUMINATING CO
NUCLEAR GROUP
MURRAY R EDELMAN
VICE PRESIDENT
PO BOX 5000
CLEVELAND OH 44101

144081082142 1 NO1110
CLEVELAND ELEC ILLUMINATING CO
PERRY NPS
J WALDRON
PLANT MANAGER
10 CENTER RD
PERRY OH 44081

219808005423 1 NO1110
COALITION FOR NUC PWR PLT POST
FRIEDA BERRYHILL
CHAIRPERSON
2610 GRENDON DRIVE
WILMINGTON DE 19808

297220005943 1 NO1110
COALITION FOR SAFE POWER
BERNICE IRELAND
1054 NE SIMPSON
PORTLAND OR 97220

180220004291 1 NO1110
COLORADO DEPT OF HEALTH
RAD CONTROL
ALBERT J HAZLE
DIRECTOR
4210 EAST 11TH AVENUE
DENVER CO 80220

153511051965 1 NO1110
COLT INDUSTRIES
WESLEY A HILL
701 LAWTON AVE
BELOIT WI 53511

103801052975 1 NO1110
CONSTRUCTION ENGINEERING INC
C-E AVERY DIVISION
OLD DOVER ROAD
NEWINGTON NH 03801

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MAYOR
BRIDGMAN MI 49106

215219005711 1 NO1110
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MARVIN FEIN
UTILITY COUNSEL
313 CITY COUNTY BUILDING
PITTSBURGH PA 15219

160099081553 1 NO1110
CITY OF ZION
JOHN B SPENCER
MAYOR
2828 SHERIDAN RD
ZION IL 60099

144081080498 1 NO1110
CLEVELAND ELEC ILLUMINATING CO
PERRY 2 NPS
PLANT MANAGER
PERRY OH 44081

144101004553 1 NO1110
CLEVELAND ELEC ILLUMINATING CO
SYSTEMS ENGINEERING & CONSTR
D R DAVIDSON
VICE PRESIDENT-ENGINEERING
PO BOX 5000
CLEVELAND OH 44101

244101000067 1 NO1110
CLEVELAND ELEC ILLUMINATING CO
DONALD H HAUSER
ESQUIRE
PO BOX 5000
CLEVELAND OH 44101

160559064455 1 NO1110
CLOW CORP
ENGINEERED PRODUCTS
M L SESAGIRI
QA MANAGER
40 CHESTNUT AVE
WESTMONT IL 60559

197204091027 1 NO1110
COALITION FOR SAFE POWER
408 SW SECOND AVE GOVERNOR BG
SUITE 527
PORTLAND OR 97204

263130006109 1 NO1110
COALITION FOR THE ENVIRONMENT
ST LOUIS REGION
DAN T BOLEFF
PRESIDENT-RD OF DIRECTORS
6267 DELMAR BLVD
UNIVERSITY CITY MO 63130

130117052974 1 NO1110
COLT INDUSTRIES
TRENT TURE DIV OF CRUCIBLE INC
141 HAMMONDS STREET
CARROLLTON GA 30117

153511052973 1 NO1110
COLT INDUSTRIES
FAIRBANK MORSE ENGINE DIV
E L FAY
MGR Q A
701 LAWTON AVENUE
BELOIT WI 53511

106095038343 1 NO1110
CONSTRUCTION ENGINEERING INC
PSG LIBRARY-DEPT 6435-405
LIBRARIAN-ATTN RED DOCUMENTS
1000 PROSPECT HILL ROAD

12081 WOODMONT AVE - SUITE 1310
ELEANOR MUELLER
COMBUSTION ENGINEERING INC
MD 20814

206095001440 I NOTIFIED
COMBUSTION ENGINEERING INC
R NEWMAN
1000 PROSPECT HILL ROAD
WINDSOR CT 06095

106095026584 1 NO1110
COMBUSTION ENGINEERING INC
A E SCHEER
DIRECTOR-NUCLEAR LICENSING
1000 PROSPECT HILL ROAD
9438-1922
WINDSOR CT 06095

137402052975 1 NO1110
COMBUSTION ENGINEERING INC.
W A STONE
QUALITY ENGNG MANAGER
911 W MAIN ST
CHATTANOOGA TN 37402

2D6095001299 1 NO1110
COMBUSTION ENGINEERING INC
CE POWER SYSTEMS
J. W. VEIRS
1000 PROSPECT HILL ROAD
WINDSOR CT 06095

1 MEXICO 664 78 1 NO 1110
COMISION FEDERAL ELECTRICIDAD
APDO. POSTAL NO 5-214
MEXICO 5-DF MEXICO

1MEXICO64504 1 NO1110
COMISION NACIONAL SEGURIDAD
NUCLEAR Y SALVAGUARDIAS
INSURGENTES SUR NO 1806
MEXICO DF 01030 MEXICO

BRAZIL 008064 1 NO1110
COMISSAO NACIONAL DE ENERGIA
INTERNATIONAL AFFAIRS OFFICE
PAULO D PEREIRA
ADMINISTRATOR
RUA GENERAL SEVERIANO 90
RIO DE JANEIRO 20000 BRAZIL

149201029260 1 NO1110
COMMONWEALTH ASSOCIATES INC
POWER DIVISION
W M RANDALL
SR REC CONSULTANT
209 E WASHINGTON AVE
JACKSON MI 49201

160690055268 NO1110
COMMONWEALTH EDISON CO
DIRECTOR OF NUCLEAR LICENSING
PO BOX 767
CHICAGO IL 60690

260690006231 1 NO1110
COMMONWEALTH EDISON CO
DIRECTOR OF NUCLEAR LICENSING
PO BOX 767
CHICAGO IL 60690

160407080565 NO1110
COMMONWEALTH EDISON CO
BRAIDWOOD I NPS
PLANT MANAGER
BRACEVILLE IL 60407

160407080566 1 NO1110
COMMONWEALTH EDISON CO
BRAIDWOOD 2 NPS
PLANT MANAGER
BRACEVILLE IL 60407

151010080560 1 NO1110
COMMONWEALTH EDISON CO
BYRON I NPS
PLANT MANAGER
4445 NORTH GERMAN CHURCH ROAD
BYRON IL 61010

161010080561 1 NO1110
COMMONWEALTH EDISON CO
BYRON 2 NPS
PLANT MANAGER
4448 NORTH GERMAN CHURCH RD
BYRON IL 61010

160450080547 1 NO1110
COMMONWEALTH EDISON CO
DRESDEN I NPS
PLANT MANAGER
RR #1
MURRIS IL 60450

160450080535 1 NO1110
COMMONWEALTH EDISON CO
DRESDEN 2 NPS
PLANT MANAGER
RR B1
MORRIS IL 60450

160450080534 1 NO1110
COMMONWEALTH EDISON CO
DRESDEN 3 NPS
PLANT MANAGER
RR #1
MORRIS IL 60450

161341080478 1 NO1110
COMMONWEALTH EDISON CO
LASALLE 1 NPS
PLANT MANAGER
MARSELLES IL 61341

161341080477 1 NO1110
COMMONWEALTH EDISON CO
LASALLE 2 NPS
PLANT MANAGER
MARSELLES IL 61341

160690064240 1 NO1110
COMMONWEALTH EDISON CO
NUCLEAR SECURITY ADMIN OFFICE
PO BOX 167
72 WEST ADAMS - ROOM 1230 E
CHICAGO IL 60690

161242080506 1 NO1110
COMMONWEALTH EDISON CO
QUAD CITIES 1 NPS
PLANT MANAGER
CORDOVA IL 61242

161242080505 1 NO1110
COMMONWEALTH EDISON CO
QUAD CITIES 2 NPS
PLANT MANAGER

160099080577 | NO 1110
COMMONWEALTH EDISON CO
ZION I NPS
PLANT MANAGER

161010052460 1 N01110
 COMMONWEALTH EDISON CO
 BYRON STATION
 R E QUERIO
 STATION SUPERINTENDENT
 4450 N GERMAN CHURCH RD
 BYRON IL 61010
 160690080923 1 N01110
 COMMONWEALTH EDISON CO
 V I SCHLOSSER
 PROJECT MANAGER
 PO BOX 767
 CHICAGO IL 60690
 161341081498 1 N01110
 COMMONWEALTH EDISON CO
 LA SALLE NPS
 D L SHAMBLIN
 CONSTRUCTION SUPERINTENDENT
 RR 1 BOX 220
 MARSEILLES IL 61341
 160690080924 1 N01110
 COMMONWEALTH EDISON CO
 B B STEPHENSON
 PROJECT MANAGER
 PO BOX 767
 CHICAGO IL 60690
 16161063097 1 N01110
 COMPROMO BELGIE NV
 G DE WILDE
 GEN ENG MANAGER
 NOORDERLAAN 139
 2030 ANTERPEN BELGIUM
 195128081633 1 N01110
 COMPUTER DATA ENGINEERING CORP
 JAMES CROUCH
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 SAN JOSE CA 95128
 206115006475 1 N01110
 CONNECTICUT OFC POLICY & MGMT
 ENERGY DIVISION
 UNDERSECRETARY FOR ENERGY
 80 WASHINGTON ST
 HARTFORD CT 06115
 106101028289 1 N01110
 CONNECTICUT YANKEE ATOM PWR CO
 PRESIDENT
 PO BOX 270
 HARTFORD CT 06101
 106101004615 1 N01110
 CONNECTICUT YANKEE ATOM PWR CO
 NUCLEAR ENGINEERING & OPER
 W G COUNSEL
 SENIOR VICE PRESIDENT
 PO BOX 270
 HARTFORD CT 06101
 220006001147 1 N01110
 CONNER & WETTERHANN
 TROY B CONNER
 1747 PENNSYLVANIA AVE NW
 SUITE 1050
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 220006000984 1 N01110
 CONNER & WETTERHANN
 MARK J WETTERHANN
 ESQUIRE
 1747 PENNSYLVANIA AVENUE NW
 SUITE 1050
 WASHINGTON DC 20006

CHICAGO IL 60690
 160690035579 1 N01110
 COMMONWEALTH EDISON CO
 CORDELL REED
 VICE PRESIDENT
 PO BOX 767
 CHICAGO IL 60690
 160450081555 1 N01110
 COMMONWEALTH EDISON CO
 DRESDEN NPS
 D J SCOTT
 SUPERINTENDENT
 RR 1
 MORRIS IL 60450
 160690079381 1 N01110
 COMMONWEALTH EDISON CO
 GUNNAR SORENSEN
 SITE PROJECT SUPERINTENDENT
 PO BOX 767
 CHICAGO IL 60690
 160099064689 1 N01110
 COMMONWEALTH EDISON CO
 ZION GEN STATION
 W STONE
 STAFF ASST
 SHILOH BLVD & LAKE MICHIGAN
 ZION IL 60099
 194705066574 1 N01110
 COMPUTECH ENGINEERING SVCS INC
 LINDSAY R JONES
 PRESIDENT
 2855 TELEGRAPH AVE
 SUITE 410
 BERKELEY CA 94705
 114225024720 1 N01110
 CONAX CORP
 NUCLEAR PRODUCTS DIVISION
 W S RAUTIO
 VICE PRESIDENT
 2300 WALDEN AVENUE
 BUFFALO NY 14225
 106115067149 1 N01110
 CONNECTICUT OFC POLICY & MGMT
 ENERGY DIVISION
 BRADFORD CHASE
 ACTING UNDERSECRETARY FOR ENGY
 80 WASHINGTON STREET
 HARTFORD CT 06115
 106424080546 1 N01110
 CONNECTICUT YANKEE ATOM PWR CO
 HADDAM NECK NPS
 PLANT MANAGER
 PO BOX 127E - RFD 1
 EAST HAMPTON CT 06424
 106424005751 1 N01110
 CONNECTICUT YANKEE ATOM PWR CO
 HADDAM NECK PLANT
 R H GRAVES
 RR 1 BOX 127E
 E HAMPTON CT 06424
 120006057875 1 N01110
 CONNER & WETTERHANN
 MARK J WETTERHANN
 1757 PENNSYLVANIA AVE NW
 SUITE 1050
 WASHINGTON DC 20006
 15PAINDOR080 1 N01110
 CONSEJO DE SEGURIDAD NUCLEAR
 BIBLIOTECA CSN PLANTA 5
 JACOBBO F DIAZ DIAZ
 PASO DE LA CASTELLANA 135
 MADRID-16 SPAIN

CONSOLIDATED EDISON CO OF NY
FRANK MAFRA
RESIDENT CONSTRUCTION MANAGER
BROADWAY AND BLEAKLEY AVES
BUCHANAN NY 10511

CONSOLIDATED EDISON CO OF NY
NUC AFFAIRS & QUALITY ASSURANCE
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VICE PRESIDENT
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219107006434 I NO1110
CONSUMERS EDUC & PROTECT ASSOC
STEVEN P HERSHEY
SYLVANIA HOUSE
JUNIPER & LOCUST STREETS
PHILADELPHIA PA 19107

149720080564 I NO1110
CONSUMERS POWER CO
BIG ROCK POINT I NPS
PLANT MANAGER
CHARLEVOIX MI 49720

148640080481 I NO1110
CONSUMERS POWER CO
MIDLAND 1 NPS
PLANT MANAGER
MIDLAND MI 48640

148640080480 I NO1110
CONSUMERS POWER CO
MIDLAND 2 NPS
PLANT MANAGER
MIDLAND MI 48640

149043080691 I NO1110
CONSUMERS POWER CO
PALISADES NPS
PLANT MANAGER
COVERT MI 49043

149201005712 I NO1110
CONSUMERS POWER CO
PARNALL TECHNICAL LIBRARY
LIBRARIAN
1945 PARNALL RD
JACKSON MI 49201

249201005343 I NO1110
CONSUMERS POWER CO
JUDD L BACON
212 WEST MICHIGAN AVE
JACKSON MI 49201

249201001421 I NO1110
CONSUMERS POWER CO
JAMES E BRUNNER
ESQ
212 WEST MICHIGAN AVENUE MI 49201
JACKSON

149201066735 I NO1110
CONSUMERS POWER CO
D M RUDZIK
PROJ RECORDS MGMT SUPVR
1945 W PARNALL ROAD
JACKSON MI 49201

149201058220 I NO1110
CONSUMERS POWER CO
J W COOK
VICE PRESIDENT
1945 W PARNALL RD
JACKSON MI 49201

149201003026 I NO1110
CONSUMERS POWER CO
WILMA G FOGG
NUCLEAR LICENSING ANALYST
1945 WEST PARNALL ROAD
JACKSON MI 49201

149201066581 I NO1110
CONSUMERS POWER CO
J R FREY
MANAGEMENT SYSTEMS ADMIN
1945 W PARNALL RD
JACKSON MI 49201

149720081510 I NO1110
CONSUMERS POWER CO
BIG ROCK POINT NPS
D P HOFFMAN
PLANT SUPERINTENDENT
ROUTE 3 BOX 591
CHARLEVOIX MI 49720

220814006416 I NO1110
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ROGER W HUSTON
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BETHESDA MD 20814

249043005337 I NO1110
CONSUMERS POWER CO
PALISADES PLANT
ROBERT W MONTROSS
PLANT MANAGER
COVERT MI 49043

249201005391 I NO1110
CONSUMERS POWER CO
PAUL A PERRY
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JACKSON

148640066519 I NO1110
CONSUMERS POWER CO
NUCLEAR TRAINING CENTER
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MIDLAND MI 48640

249201005497 I NO1110
CONSUMERS POWER CO
DAVID VANDENALLE
VICE PRESIDENT
1945 W PARNALL RD
JACKSON MI 49201

192714052938 I NO1110
CONTROL COMPONENTS INC
2567 SE MAIN STREET
IRVINE CA 92714

120852064749 I NO1110
CONTROL DATA CORP
R L PRIEM
MARKETING ASSOCIATE
6003 EXECUTIVE BLVD
ROCKVILLE MD 20852

143050052981 I NO1110
COOPER INDUSTRIES INC
COOPER ENERGY SERVICES
G W MIZER
TECH SERV AND QA MANAGER
NORTH SANDBURG PETROLEUM

268321005853 I NO1110
COOPER NUCLEAR STATION
E LESSOR
STATION SUPERINTENDENT
PO BOX 99

297501006345 1 NO1110
COUNTY OF COLUMBIA
BD OF COUNTY COMMISSIONERS
ROBERT M HUNT
CHAIRMAN
ST HELENS DR 97501

238130006555 1 NO1110
COUNTY OF DADE
H R STIERHEIM
COUNTY MANAGER-METRO DADE CITY
MIAMI FL 33130

229535006554 1 NO1110
COUNTY OF DARLINGTON
BOARD OF SUPERVISORS
MCCUEN MORRELL
CHAIRMAN
COUNTY COURTHOUSE
DARLINGTON SC 29535

265066006489 1 NO1110
COUNTY OF DASCONADE
HAROLD LOTHAN
PRESIDING JUDGE
ROUTE 1
DWENSVILLE MD 65066

217101005433 1 NO1110
COUNTY OF DAUPHIN
EMERGENCY PREPAREDNESS
COURT HOUSE
FRONT & MARKET STREET
ROOM T
HARRISBURG PA 17101

217101007083 1 NO1110
COUNTY OF DAUPHIN
LARRY HOCHENDONER
COMMISSIONER
PO BOX 1295
HARRISBURG PA 17101

217101005434 1 NO1110
COUNTY OF DAUPHIN
DAUPHIN COUNTY COURTHOUSE
EARL B HOFFMAN
COMMISSIONER
FRONT & MARKET STREET
HARRISBURG PA 17101

217101005437 1 NO1110
COUNTY OF DAUPHIN
DAUPHIN COUNTY COURTHOUSE
JOHN E MINNICH
CHAIRPERSON BD OF COMMISSIONER
FRONT & MARKET STREET
HARRISBURG PA 17101

255066005941 1 NO1110
COUNTY OF GOODHUE
R L TANNER
COUNTY AUDITOR
RED WING MN 55066

260450005402 1 NO1110
COUNTY OF GRUNDY
BOARD OF SUPERVISORS
CHAIRMAN
GRUNDY COUNTY COURTHOUSE
MORRIS IL 62450

195501091019 1 NO1110
COUNTY OF HUMBOLDT
BOARD OF SUPERVISORS
ERIC W MEDLUND
925 FIFTH ST COUNTY COURTHSE
EUREKA CA 95501

244077006128 1 NO1110
COUNTY OF LAKE
DONALD T LEZNE
ASSISTANT PROSECUTING ATTORNEY
105 MAIN STREET
PAINSVILLE OH 44077

252406005646 1 NO1110
COUNTY OF LINN
BOARD OF SUPERVISORS
CHAIRMAN
EDAR RAPIDS IA 52406

265069006488 1 NO1110
COUNTY OF MONTGOMERY
FRED LUEKEY
PRESIDING JUDGE
RURAL ROUTE
RHINELAND MD 65069

168305005855 1 NO1110
COUNTY OF NEAMA
BOARD OF COMMISSIONERS
WILLIAM SIEBERT
COMMISSIONER
NEAMA COUNTY COURTHOUSE
AUBURN NE 68305

229621005804 1 NO1110
COUNTY OF OCONEE
JAMES M PHINNEY
COUNTY SUPERVISOR
MALHALLA SC 29621

243452005779 1 NO1110
COUNTY OF OTTAWA
BOARD OF COMMISSIONERS
PRESIDENT
PORT CLINTON OH 43452

272801005811 1 NO1110
COUNTY OF POPE
ERMIL GRANT
ACTING COUNTY JUDGE
PCPE COUNTY COURTHOUSE
RUSSELLVILLE AR 72801

261201005850 1 NO1110
COUNTY OF ROCK ISLAND
BOARD OF SUPERVISORS
CHAIRMAN
ROCK ISLAND COUNTY COURTHOUSE
ROCK ISLAND IL 61201

295814007101 1 NO1110
COUNTY OF SACRAMENTO
BOARD OF SUPERVISORS
827 7TH ST ROOM 424
SACRAMENTO CA 95814

292101005377 1 NO1110
COUNTY OF SAN DIEGO
BOARD OF SUPERVISORS
CHAIRMAN
SAN DIEGO CA 92101

233450005903 1 NO1110
COUNTY OF ST LUCIE
WELDON B LEWIS
COUNTY ADMINISTRATOR
2300 VIRGINIA AVENUE
ROOM 104
FORT PIERCE FL 33450

223683005688 1 NO1110
COUNTY OF SURRY
BOARD OF SUPERVISORS

264008005922 1 NO1110
COUNTY OF WASHINGTON
BOARD OF SUPERVISORS

192075067953 1 NO1110 CYGNA ENERGY SERVICES SAN DIEGO OFFICE BLACK WIREAD 225 STEVENS STREET SUITE 2100 SOLANA BEACH CA 92075	103874052989 1 NO1110 D G O'BRIEN INC D G O'BRIEN PRESIDENT ONE CHASE PARK SEABROOK NH 03874
115235065986 1 NO1110 DIAPPOLONIA CONSULTING ENG INC PATRICI F OHARA 10 DUFF RD PITTSBURGH PA 15235	154632080467 1 NO1110 DAIRYLAND POWER COOPERATIVE LACROSSE NPS PLANT MANAGER PO BOX 275 GENOA WI 54632
254601005499 1 NO1110 DAIRYLAND POWER COOPERATIVE FRANK LINDER GENERAL MANAGER 2615 EAST AVENUE SOUTH LACROSSE WI 54601	254632006289 1 NO1110 DAIRYLAND POWER COOPERATIVE LACROSSE BOILING WATER REACTOR JOHN PARKYN PO BOX 135 GENOA WI 54632
254601005332 1 NO1110 DAIRYLAND POWER COOPERATIVE FRITZ SCHUBERT STAFF ATTORNEY 2615 EAST AVENUE SOUTH LA CROSSE WI 54601	154632006468 1 NO1110 DAIRYLAND POWER COOPERATIVE LACROSSE NUCLEAR POWER PLANT R E SHIMSHAK SUPERINTENDENT PO BOX 275 GENOA WI 54632
154601001037 1 NO1110 DAIRYLAND POWER COOPERATIVE JIM TAYLOR ASST GENERAL MANAGER 2615 E AVENUE SOUTH LACROSSE WI 54601	175201005627 1 NO1110 DALLAS POWER & LIGHT CO MAX H TANNER VICE PRESIDENT 1506 COMMERCE STREET DALLAS TX 75201
129405051944 1 NO1110 DATORTATION INC NED JOHNSON PO BOX 71108 CHARLESTON SC 29405	206103005416 1 NO1110 DAY BERRY & HOWARD COUNSELORS AT LAW ONE CONSTITUTION PLAZA HARTFORD CT 06103
206103000699 1 NO1110 DAY BERRY & HOWARD WILLIAM H CUDDY ESQ ONE CONSTITUTION PLAZA HARTFORD CT 06103	120036081372 1 NO1110 DEBEVOISE & LIBERMAN J R KNOTTS 1200 17TH ST NW WASHINGTON DC 20036
220036000476 1 NO1110 DEBEVOISE & LIBERMAN JOSEPH B KNOTTS ESQUIRE 1200 SEVENTEENTH ST NW SUITE 700 WASHINGTON DC 20036	110004054611 1 NO1110 DEBEVOISE & LIBERMAN JAMES B LIBERMAN ESQ 26 BROADWAY NEW YORK NY 10004
210004005466 1 NO1110 DEBEVOISE & LIBERMAN J R LIBERMAN 26 BROADWAY NEW YORK NY 10004	220036000900 1 NO1110 DEBEVOISE & LIBERMAN J M MCGARRY ESQUIRE 1200 17TH STREET NW WASHINGTON DC 20036
2200360000157 1 NO1110 DEBEVOISE & LIBERMAN NICHOLAS S REYNOLDS 1200 SEVENTEENTH ST NW WASHINGTON DC 20036	120814079397 1 NO1110 DEFENSE NUCLEAR AGENCY ARMED FORCES RADIODIO RES INST REACTOR RR-PHYSICIST-IN-CHARGE BETHESDA MD 20814
218917006525 1 NO1110 DEL-AWARE JAMES M NEILL ASSOCIATE COUNSEL BOX 511 DUBLIN PA 18917	219901006459 1 NO1110 DELAWARE DEPT OF NATL RESOURCE DIV OF ENVIRONMENTAL CONTROL DIRECTOR TATNALL BUILDING DOVER DE 19901
119901036531 1 NO1110 DELAWARE DEPT OF NATL RESOURCE ENVIRONMENTAL CONTROL	219901001261 1 NO1110 DELAWARE DEPT OF NATL RESOURCE F M BARBOUR

DETROIT EDISON CO
PETER A MARQUARDT
ESQUIRE
2000 SECOND AVENUE
DETROIT MI 48226

DETROIT EDISON CO
R G RATEICK
2000 SECOND AVE
DETROIT MI 48226

248084006500 1 N01110
DETROIT EDISON CO
LARRY E SCHUELMAN
3331 WEST BIG BEAVER ROAD
TROY MI 48084

248226006228 1 N01110
DETROIT EDISON CO
ENGINEERING & CONSTRUCTION
HARRY TAUBER
VICE PRESIDENT
2000 SECOND AVE
DETROIT MI 48226

148226004989 3 N01110
DETROIT EDISON CO
ENGINEERING AND CONSTRUCTION
HARRY TAUBER
VICE PRESIDENT
2000 SECOND AVE
DETROIT MI 48226

112301081110 1 N01110
DEVERSIFIED NUCLEAR INC
RADIOLOGICAL ENGN
STEPHEN F MILLER
MANAGER
PO BOX 209
SCHENECTADY NY 12301

115077001767 1 N01110
DICK CORP
J A LONG
QA COORDINATOR
PO BOX 49
SHIPPINGPORT PA 15077

10213RD21605 1 N01110
DIS/ADL PIPE INC
WALLACE B WRIGHT
55 WHEELER ST
CAMBRIDGE MA 02138

122101065227 1 N01110
DOMINION ENGINEERING INC
M J PARTRIDGE
6862 ELM STREET
MCLEAN VA 22101

249106005694 1 N01110
DONALD C COOK NUCLEAR PLANT
W G SMITH
PLANT MANAGER
PO BOX 458
BRIDGMAN MI 49106

294102005654 1 N01110
DONOHUE JONES BROWN & CLIFFORD
LINDA J BROWN
100 VAN NESS AVE
19TH FLOOR
SAN FRANCISCO CA 94102

148660081493 1 N01110
DOW CHEMICAL CO
REACTOR OPERATIONS CMTE
F J KNOLL
RESEARCH MANAGER & CHAIRMAN
1602 BUILDING
MIDLAND MI 48640

148660081494 1 N01110
DOW CHEMICAL CO
C W KOCHER
REACTOR SUPERVISOR
1602 BUILDING
MIDLAND MI 48640

148660081492 1 N01110
DOW CHEMICAL CO
RADIATION SAFETY CMTE
L W RAMPY
CHAIRMAN
1803 BUILDING
MIDLAND MI 48640

190650052991 1 N01110
DRAGON VALVE INC
ROBERT E BOND
VICE PRESIDENT
PO BOX 489
NORWALK CA 90650

145750052992 1 N01110
DRAVO CORP
PIPE FABRICATION DIVISION
KENNETH B ANDERSON
GENERAL MANAGER
1115 GILMAN AVENUE
MARIETTA OH 45750

260450005418 1 N01110
DRESDEN NUCLEAR POWER STATION
PLANT SUPERINTENDENT
RURAL ROUTE #1
MORRIS IL 60450

1297-0080555 1 N01110
DUKE POWER CO
CATAWRA 1 NPS
PLANT MANAGER
PO BOX 254
CLOVER SC 29710

129745080556 1 N01110
DUKE POWER CO
CATAWRA 2 NPS
PLANT MANAGER
YORK SC 29745

128031080483 1 N01110
DUKE POWER CO
MC GUIRE 1 NPS
PLANT MANAGER
CORNELIUS NC 28031

128031080482 1 N01110
DUKE POWER CO
MC GUIRE 2 NPS
PLANT MANAGER
CORNELIUS NC 28031

129678080495 1 N01110
DUKE POWER CO
OCONEE 1 NPS
PLANT MANAGER
SENECA SC 29678

129678080494 1 N01110
DUKE POWER CO
OCONEE 2 NPS
PLANT MANAGER

129678080493 1 N01110
DUKE POWER CO
OCONEE 3 NPS
PLANT MANAGER

J T MOORE PROJECT MANAGER PO BOX 33189 CHARLOTTE	NC 28242	WILLIAM D PARKER 422 SOUTH CHURCH ST BOX 33189 CHARLOTTE	NC 28242
229242000463 1 N01110 DUKE POWER CO WILLIAM PORTER ASSOCIATE GENERAL COUNSEL PO BOX 33189 CHARLOTTE	NC 28242	129710007627 1 N01110 DUKE POWER CO J C ROGERS PO BOX 223 CLOVER	SC 29710
129678003050 1 N01110 DUKE POWER CO OCONEE NUCLEAR STATION J E SMITH STATION MANAGER PO BOX 1439 SENECA	SC 29678	128242081247 1 N01110 DUKE POWER CO H R TUCKER VICE PRES-NUCLEAR POWER DEPT 422 S CHURCH ST CHARLOTTE	NC 28242
228242000622 1 N01110 DUKE POWER CO H B TUCKER VICE PRESIDENT-NUCLEAR PROD 422 SOUTH CHURCH ST BOX 33189 CHARLOTTE	NC 28242	115077080571 1 N01110 DUQUESNE LIGHT CO BEAVER VALLEY 1 NPS PLANT MANAGER PO BOX 4 SHIPPINGPORT	PA 15077
115077003061 1 N01110 DUQUESNE LIGHT CO BEAVER VALLEY POWER STATION F J BISSETT P O BOX 4 SHIPPINGPORT	PA 15077	115077091033 1 N01110 DUQUESNE LIGHT CO BPS-2 RECORDS MGMT SUPERVISOR PO BOX 4 SHIPPINGPORT	PA 15077
215219005713 1 N01110 DUQUESNE LIGHT CO NUCLEAR DIVISION JOHN J CAREY VICE PRESIDENT 435 SIXTH AVENUE PITTSBURGH	PA 15219	115077064666 1 N01110 DUQUESNE LIGHT CO BEAVER VALLEY NPS J J CAREY VICE PRESIDENT-NUCLEAR PO BOX 4 SHIPPINGPORT	PA 15077
215077007012 1 N01110 DUQUESNE LIGHT CO QUALITY ASSURANCE DEPT C E EWING MANAGER PO BOX 186 SHIPPINGPORT	PA 15077	115077079396 1 N01110 DUQUESNE LIGHT CO QUALITY ASSURANCE DEPT C E EWING QUALITY ASSURANCE MANAGER PO BOX 186 SHIPPINGPORT	PA 15077
115205079395 1 N01110 DUQUESNE LIGHT CO E F KURTZ DIRECTOR OF LICENSING ROBINSON PLAZA BLDG #2-RTE 60 SUITE 210 PITTSBURGH	PA 15205	215077006546 1 N01110 DUQUESNE LIGHT CO NUCLEAR OPERATIONS T D JONES MANAGER PO BOX 4 SHIPPINGPORT	PA 15077
115077080919 1 N01110 DUQUESNE LIGHT CO W S LACEY CHIEF ENGINEER PO BOX 4 SHIPPINGPORT	PA 15077	215205007013 1 N01110 DUQUESNE LIGHT CO BROWN VALLEY 2 E F KURTZ ROBINSON PLAZA BLDG 2 RT 60 PITTSBURGH	PA 15205
115279090009 1 N01110 DUQUESNE LIGHT CO MECHANICAL ENGR DEPT ROGER E MARTIN 301 GRANT ST 1 OXFORD CENTER 18-1 PITTSBURGH	PA 15279	115219030948 1 N01110 DUQUESNE LIGHT CO R M MAFRICE NUCLEAR ENGINEER 435 SIXTH AVENUE PITTSBURGH	PA 15219
115077079147 1 N01110 DUQUESNE LIGHT CO NUCLEAR SAFETY & LICENSING DPT J D SIEBER MANAGER PO BOX 4 SHIPPINGPORT	PA 15077	115077062825 1 N01110 DUQUESNE LIGHT CO SHIPPINGPORT ATOMIC POWER STA J V McGEE STATION OFFICE MANAGER BOX 57 SHIPPINGPORT	PA 15077
		115205079394 1 N01110 DUQUESNE LIGHT CO H M STEGEL DIRECTOR OF ENGINEERING ROBINSON PLAZA BLDG #2-RTE 60 SUITE 210 PITTSBURGH	PA 15205

215205007014 I NO1110
DUQUESNE LIGHT CO
BEAVER VALLEY 2
M M SIEGEL
DIRECTOR OF ENGINEERING
ROBINSON PLAZA BLDG 2 RT 60
PITTSBURGH PA 15205

215205006499 I NO1110
DUQUESNE LIGHT CO
R J WASHABAUGH
BV-2 PROJECT MANAGER
ROBINSON PLAZA BLDG 2-ROUTE 60
SUITE 210
PITTSBURGH PA 15205

215077005709 I NO1110
DUQUESNE LIGHT CO
BEAVER VALLEY POWER STATION
H P WILLIAMS
STATION SUPERINTENDENT
PO BOX 5
SHIPPINGPORT PA 15077

215205001563 I NO1110
DUQUESNE LIGHT CO
NUCLEAR CONSTRUCTION
EARL J WOOLEVER
VICE PRESIDENT
ROBINSON PLAZA NO 2 RTE 60
PITTSBURG PA 15205

184119053002 I NO1110
E SYSTEMS INC
MONTEK DIV
J LYNCH
QA MGR
8268 SOUTH 3270 WEST
SALT LAKE CITY UT 84119

110048024303 I NO1110
EBASCO SERVICES INC
J C BRODSKY
SUPERVISING MALES ENGR
2 WORLD TRADE CTR 88TH FLOOR
NEW YORK NY 10048

111375000979 I NO1110
EBASCO SERVICES INC
IVAN GROSS
110-36 73RD ROAD
FOREST HILLS NY 11375

130092026013 I NO1110
EBASCO SERVICES INC
JAMES C O'HARA
CONSULTING ENGINEER
145 TECHNOLOGY PARK/ATLANTA
NORCROSS GA 30092

111753022462 I NO1110
EBASCO SERVICES INC
L PHelan
LIBRARIAN
1 JERICHO PLAZA
JERICHO NY 11753

110048054464 I NO1110
EBASCO SERVICES INC
MAIL ENGR & QA
B E TENZER
VICE PRESIDENT
TWO WORLD TRADE CENTER
NEW YORK NY 10048

215219006305 I NO1110
ECKER SEAMANS CHERIN MELLOTT
BARTON Z COWAN
600 GRANT STREET
42ND FLOOR
PITTSBURGH PA 15219

120036079255 I NO1110
EDISON ELECTRIC INSTITUTE
FEDERAL REGULATORY COORDINATE

115077079148 I NO1110
DUQUESNE LIGHT CO
BEAVER VALLEY NPS-NUCLEAR
N R TONET
MANAGER-NUCLEAR ENGINEERING
PO BOX 4
SHIPPINGPORT PA 15077

115205079434 I NO1110
DUQUESNE LIGHT CO
NUCLEAR CONSTRUCTION DIV
R WASHABAUGH
PROJECT MANAGER
ROBINSON PLAZA NO 2 SUITE 210
PITTSBURGH PA 15205

115205079460 I NO1110
DUQUESNE LIGHT CO
BEAVER VALLEY TWO PROJECT
EARL J WOOLEVER
ROBINSON PLAZA BLDG 2-PA RT 60
SUITE #210
PITTSBURGH PA 15205

108903057904 I NO1110
EARL SOUTBB & SONS INC
CHARLES F BOYLE
GEORGES ROAD
NEW BRUNSWICK NJ 08903

144202053103 I NO1110
EATON CORP
ECC DIVISION
R C PERRIN
QUALITY ASSURANCE MANAGER
1199 S CHILLICOTHE ROAD
AURORA OH 44202

130092038060 I NO1110
EBASCO SERVICES INC
PIPE STRESS ANALYSIS
R H DIETZ
SUPERVISING ENGINEER
145 TECHNOLOGY PARK
NORCROSS GA 30092

110048065530 I NO1110
EBASCO SERVICES INC
DIONE KROBETZKY
2 WORLD TRADE CENTER
88TH FLOOR
NEW YORK NY 10048

110048038050 I NO1110
EBASCO SERVICES INC
NUCLEAR LICENSING DEPT 90
VINCE PATUTU
TWO WORLD TRADE CENTER
15TH FLOOR
NEW YORK NY 10048

110006007978 I NO1110
EBASCO SERVICES INC
L REICHEN
VICE PRESIDENT NUCLEAR
2 RECTOR STREET
NEW YORK NY 10006

194612081439 I NO1110
ECHO ENERGY CONSULTANTS
MANAGER OF QUALITY ASSURANCE
1499 FRANKLIN ST
OAKLAND CA 94612

119355008722 I NO1110
ECOLAIRE SYSTEMS INC
ENGINEERING
CARL L NEWMAN
VICE PRESIDENT
TWO COUNTRY VIEW ROAD
MALVERN PA 19355

111747082338 I NO1110
EDS NUCLEAR INC
QA COORDINATOR

184119053002	PA 15205	1 NO1110	144202053103	1 NO1110
E SYSTEMS INC MONTEZ DIV J LYNCH QA MGR 2268 SOUTH 3270 WEST SALT LAKE CITY UT			EATON CORP PCC DIVISION R C PERRIN QUALITY ASSURANCE MANAGER 1199 S CHILLICOTHE ROAD AURORA OH 44202	
110068024303		1 NO1110	130092038060	1 NO1110
EBASCO SERVICES INC J C BRODSKY SUPERVISING MALES ENGR 2 WORLD TRADE CTR 88TH FLOOR NEW YORK NY	10048		EBASCO SERVICES INC PIPE STRESS ANALYSIS SUPERVISING ENGINEER 145 TECHNOLOGY PARK NORCROSS GA 30092	
121375000979		1 NO1110	110048065530	1 NO1110
EBASCO SERVICES INC IVAN GROSZ 110-34 73RD ROAD FOREST HILLS NY	11375		EBASCO SERVICES INC DIONE KROBETZKY 2 WORLD TRADE CENTER 88TH FLOOR NEW YORK NY 10048	
130092026013		1 NO1110	110048038050	1 NO1110
EBASCO SERVICES INC JAMES C O'HARA CONSULTING ENGINEER 145 TECHNOLOGY PARK/ATLANTA NORCROSS GA 30092			EBASCO SERVICES INC NUCLEAR LICENSING DEPT 90 VINCE PATUTO TWO WORLD TRADE CENTER 15TH FLOOR NEW YORK NY 10048	
111753022462		1 NO1110	110006007978	1 NO1110
EBASCO SERVICES INC L PHELAN LIBRARIAN 1 JERICHO PLAZA JERICHO NY	11753		EBASCO SERVICES INC L REICHEL VICE PRESIDENT NUCLEAR 2 RECTOR STREET NEW YORK NY 10006	
110068064466		1 NO1110	1946612081439	1 NO1110
EBASCO SERVICES INC MAIL ENGR & QA B E TENZER VICE PRESIDENT TWO WORLD TRADE CENTER NEW YORK NY	10048		ECHO ENERGY CONSULTANTS MANAGER OF QUALITY ASSURANCE 1499 FRANKLIN ST OAKLAND CA 94612	
215219006305		1 NO1110	119355008712	1 NO1110
ECKERT SEAMANS CHERIN MELLOTT BARTON Z COWAN 600 GRANT STREET 42ND FLOOR PITTSBURGH PA	1519		ECOLAIRES SYSTEMS INC ENGINEERING CARL L NEWMAN VICE PRESIDENT TWO COUNTY VIEW ROAD HALVERN PA 19355	
120036079255		1 NO1110	111747082338	1 NO1110
EDISON ELECTRIC INSTITUTE FEDERAL REGULATORY COORDINATE LARRY LOGAN FEDERAL REGULATORY COORDINATOR 1111 NINETEENTH ST NW WASHINGTON DC	20036		EDS NUCLEAR INC QA COORDINATOR 225 BROOD HOLLOW RD MELVILLE NY 11747	
194598057367		2 NO1110	111747082337	1 NO1110
EDS NUCLEAR INC LIBRARIAN 350 LENNON LANE WALNUT CREEK CA	94538		EDS NUCLEAR INC LIBRARY 225 BROOD HOLLOW RD MELVILLE NY 11747	
194104026885		1 NO1110	194598057030	1 NO1110
EDS NUCLEAR INC LIBRARY LIBRARIAN 220 MONTGOMERY STREET SAN FRANCISCO CA	94104		EDS NUCLEAR INC PROJECT DEVELOPMENT MANAGER 350 LENNON LANE WALNUT CREEK CA 94598	
194104053000		1 NO1110	130092066906	1 NO1110
EDS NUCLEAR INC R A AYRES QA MANAGER 220 MONTGOMERY ST SAN FRANCISCO CA	94104		EDS NUCLEAR INC DEL BRITT LIBRARIAN 333 TECHNOLOGY PARK NORCROSS GA 30092	
294104005480		1 NO1110	194104064767	1 NO1110
EDS NUCLEAR INC R A AYRES			EDS NUCLEAR INC LIBRARIAN 333 TECHNOLOGY PARK NORCROSS GA 30092	

EDX NUCLEAR INC
K A AYRES
QA MANAGER
220 MONTGOMERY ST
SAN FRANCISCO CA 94104

EDX NUCLEAR INC
DEL BRITT
LIBRARIAN
333 TECHNOLOGY PARK
NORCROSS GA 30092

294104005480 1 NO1110
EDS NUCLEAR INC
R A FORTNEY
220 MONTGOMERY ST
SAN FRANCISCO CA 94104

194104064767 1 NO1110
EDS NUCLEAR INC
C M FRANK
TITLE
220 MONTGOMERY STREET
SAN FRANCISCO CA 94104

111747082745 1 NO1110
EDS NUCLEAR INC
ROBERT PITRE
225 BROOK HOLLOW RD
MELVILLE NY 11747

194104065746 1 NO1110
EDS NUCLEAR INC
ADVANCED ANALYSIS DIV
ARON SEIKEN
SR ENGR
220 MONTGOMERY ST
SAN FRANCISCO CA 94104

183415063556 1 NO1110
EGEG IDAHO INC
CAL D DOUCETTE
P O BOX 1625
IDAHO FALLS ID 83415

183401064611 1 NO1110
EGEG IDAHO INC
K L HEGSTROM
MANAGEMENT CONSULTANT
PO BOX 1625 TSA BLDG
IDAHO FALLS ID 83401

183415031484 1 NO1110
INEL TECHNICAL LIBRARY
BRENT N JACOBSEN
LIBRARY SUPERVISOR
PO BOX 1625
IDAHO FALLS ID 83415

183415064221 1 NO1110
EGEG IDAHO INC
QUALITY DEPT
H J KIRSCHENMANN
MANAGER
PO BOX 1625
IDAHO FALLS ID 83415

183401064744 1 NO1110
EGEG IDAHO INC
F J KOCSIS III
CONFIG DOC CONTROL MGR
PO BOX 1625
IDAHO FALLS ID 83401

183401062537 1 NO1110
EGEG IDAHO INC
DAVID B VAN LEUVEN
PO BOX 1625 TRA 649
IDAHO FALLS ID 83401

183415062748 1 NO1110
EGEG IDAHO INC
POWER REACTORS SPECIAL PROJECT
M S VARGO
MANAGER
PO BOX 1625
IDAHO FALLS ID 83415

246320001446 1 NO1110
EICHHORN MURROW & EICHHORN
WILLIAM H EICHHORN
ESQUIRE
5243 HOMAN AVENUE
HAMMOND IN 46320

18572057566 1 NO1110
EIDG AMT FUR ENERGIEWIRTSCHAFT
NUCLEAR SAFETY DIVISION
ROLAND MAEGELIN
ADMINISTRATOR
5303 WUERENLINGEN SWITZERLAND

194303064766 1 NO1110
ELECTRIC POWER RESEARCH INST
NSAC
JOSEPHINE FISHER
3412 HILLVIEW AVENUE
BOX 10412
PALO ALTO CA 94303

194303054728 1 NO1110
ELECTRIC POWER RESEARCH INST
NSAC
ROBERT LEYSE
PROGRAM MANAGER
PO BOX 10412
PALO ALTO CA 94303

120008079698 1 NO1110
EMBASSY OF GREAT BRITAIN
ALISON COULTER
3100 MASSACHUSETTS AVE NW
WASHINGTON DC 20008

120008000334 1 NO1110
EMBASSY OF GREAT BRITAIN
INFO OFF SCIENCE & TECH DEPT
A P KING
SCIENTIFIC OFFICER
3100 MASSACHUSETTS AVE NW
WASHINGTON DC 20008

120037000346 1 NO1110
EMBASSY OF JAPAN
SCIENCE SECTION
TETSUHISA SHIRAKAWA
600 NEW HAMPSHIRE AVE NW
SUITE 900
WASHINGTON DC 20037

115222062525 1 NO1110
ENEA
EXTERNAL RELATIONS DISP
PIERO VANNI
ADMINISTRATOR
VIALE REGINA MARGHERITA 125
00198 ROME ITALY

115222062525 1 NO1110
ENERGY CONSULTANTS INC
CORPORATE LIBRARIAN
121 SEVENTH STREET
PITTSBURGH PA 15222

120850051943 1 NO1110
ENERGY CONSULTANTS INC
OPERATION SERVICES DIV
LIBRARIAN
800 PENN AVENUE

120850051943 1 NO1110
ENERGY INC
KAY DOVE
RESEARCH CONSULTANT
118 MONROE ST #302

160475052997 1 N01110
ESB INC
EXIDE INDUSTRIAL BATTERY DIV
A C NOBLE
PLANT MANAGER
ROUTE 876-RICHMOND BY-PASS
RICHMOND KY 40475

114136081397 1 N01110
EXCELCO DEVELOPMENTS INC
RUSSELL W NEWMAN
PRESIDENT
MILL ST
SILVER CREEK NY 14136

199352001686 2 N01110
EXXON NUCLEAR COMPANY INC
RESEARCH & TECHNOLOGY CENTER
LIBRARIAN
2101 HORN RAPIDS ROAD
LIBRARY
RICHLAND WA 99352

175229081453 1 N01110
F & M TECHNICAL SERVICES INC
D L MARTIN
PRESIDENT
PO BOX 59387
DALLAS TX 75229

1FINLA064852 1 N01110
FINLAND INST OF RADIAST PROTECT
DIRT EURDIST
ADMINISTRATOR
PO BOX 268
00101 HELSINKI 10 FINLAND

150158053007 1 N01110
FISHER CONTROLS CO
J R BOVEE
PO BOX 190
MARSHALLTOWN IA 50158

191720057035 1 N01110
FLEET ANALYSIS CENTER
CDEP
WILLIAM ARNTZ
PROGRAM DIRECTOR
CORONA CA 91720

232301005802 1 N01110
FLORIDA CLEARINGHOUSE
STATE PLANNING & DEVELOPMENT
CAPITAL BLDG EXEC OFF OF GOV
TALLAHASSEE FL 32301

132301004858 1 N01110
FLORIDA DEPT OF ENVR REG
HAMILTON OVEN JR
ADMINISTRATOR
2500 BLAIRSTONE ROAD
TALLAHASSEE FL 32301

132231009733 1 N01110
FLORIDA DEPT OF HLTH & REHAB
JOHN LANHAM
PUBLIC HEALTH PHYSICIST
PO BOX 210
JACKSONVILLE FL 32231

133101082357 1 N01110
FLORIDA POWER & LIGHT CO
9250 W FLAGLER ST
MIAMI FL 33101

133457080594 1 N01110
FLORIDA POWER & LIGHT CO
ST LUCIE 2 NPS

15AFR1057401 1 N01110
ESCON CORP
LIBRARY
L VAN RENSBURG
LIBRARIAN
PO BOX 1091
JOHANNESBURG 2000 SAFRICA

119167052998 1 N01110
EXIDE CORP
INDUSTRIAL
ROBERT V HIGHT
QUALITY ASSURANCE ENGINEER
19 WEST COLLEGE AVENUE
YARDLEY PA 19167

199352082403 1 N01110
EXXON NUCLEAR COMPANY INC
REFLOAD FUEL LICENSING
G F OWLSLEY
2101 HORN RAPIDS RD
PO BOX 130
RICHLAND WA 99352

118403000879 1 N01110
FAIRCHILD WESTON SYSTEMS INC
WESTON CONTROLS DIV
A F KOHL
TECH LIBRN
KENNEDY DRIVE
ARCBALD PA 18403

1FINLA003521 1 N01110
FINLAND INST OF RADIAST PROTECT
DEPARTMENT OF NUCLEAR SAFETY
A VOORINEN
DIRECTOR
PO BOX 268
00101 HELSINKI 10 FINLAND

150158021209 1 N01110
FISHER CONTROLS INTERNATIONAL
FLOYD D JURY
NUCLEAR TECH MANAGER
PO BOX 11
MARSHALLTOWN IA 50158

232304005799 1 N01110
FLORIDA ATTORNEY GENERAL
DEPT OF LEGAL AFFAIRS
THE CAPITOL
TALLAHASSEE FL 32304

232301005798 1 N01110
FLORIDA DEPT OF ENVIR REG
POWER PLANT SITTING SECTION
ADMINISTRATOR
2600 BLAIRSTONE ROAD
TALLAHASSEE FL 32301

132301012054 3 N01110
FLORIDA DEPT OF HLTH & REHAB
RADIATION CONTROL PROGRAM
LYLE JERRETT
DIRECTOR
1317 WINWOOD BLVD SUITE 219
TALLAHASSEE FL 32301

232304005797 1 N01110
FLORIDA OFFICE OF PUBL COUNSEL
JACK SCHREVE
MOLLAND BLDG
ROOM 4
TALLAHASSEE FL 32304

133457080593 1 N01110
FLORIDA POWER & LIGHT CO
ST LUCIE 1 NPS
PLANT MANAGER
JENSEN REACH FL 33457

133030080592 1 N01110
FLORIDA POWER & LIGHT CO
TURKEY POINT 3 NPS

TURKEY POINT NPS	K N Y
HENRY YAAGER	DOCUMENT CONTROL SUPVR
PLANT MANAGER	PO BOX 529100
PO BOX 013100	MIAMI FL 33152
MIAMI FL 33101	
132629080530 1 NO1110	233733005795 1 NO1110
FLORIDA POWER CORP	FLORIDA POWER CORP
CRYSTAL RIVER 3 NPS	S A BRANDIMORE
PLANT MANAGER	VICE PRESIDENT & GEN COUNSEL
PO BOX 219	PO BOX 14042
CRYSTAL RIVER FL 32629	ST PETERSBURG FL 33733
133733079322 5 NO1110	132629081354 1 NO1110
FLORIDA POWER CORP	FLORIDA POWER CORP
NUCLEAR OPERATIONS	CRYSTAL RIVER 3 NPS
JOHN A HANCOCK	E H HOWARD
PO BOX 14042	DIRECTOR-NUCLEAR OPERATION
MAC H-2	PO BOX 1240
ST PETERSBURG FL 33733	CRYSTAL RIVER FL 32629
232629006529 1 NO1110	132629081356 1 NO1110
FLORIDA POWER CORP	FLORIDA POWER CORP
T C LUTKEHAUS	CRYSTAL RIVER 3 NPS
NUCLEAR PLANT MANAGER	T LUTKEHAUS
PO BOX 219	MANAGER
CRYSTAL RIVER FL 32629	PO BOX 1240
133733081355 1 NO1110	133733091044 1 NO1110
FLORIDA POWER CORP	FLORIDA POWER CORP
NUCLEAR LICENSING	NUCLEAR OPERATIONS
D G HARDIS	M S WILCUS
PO BOX 14042	PO BOX 14042
MAC H-2	MAC H-2
ST PETERSBURG FL 33733	ST PETERSBURG FL 33733
233733005803 1 NO1110	116103053008 1 NO1110
FLORIDA POWER CORP	FLOWLINE CORP
NUCLEAR OPERATIONS	BUTLER AVENUE EXTENSION
WALTER S WILCUS	POST OFFICE BOX 860
VICE PRESIDENT	NEW CASTLE PA 16103
PO BOX 14042 MAC H-2	
ST PETERSBURG FL 33733	
160606008712 1 NO1110	253202005829 1 NO1110
FLUOR POWER SERVICES INC	FOLEY C LARDNER
D M LEPPKE	STEVEN F KEANE
WGR TECH DEV	777 EAST WISCONSIN AVENUE
ZOO WEST MONROE STREET	MILWAUKEE WI 53202
CHICAGO IL 60606	
297009005967 1 NO1110	175001053010 1 NO1110
FORELAW ON BOARD	FORNEY ENGINEERING CO
LLOYD K MARBET	QUALITY CONTROL
19142 S BAKERS FERRY ROAD	RAY MURPHY
BORING OR 97009	PO BOX 189 3405 WILEY POST RD
	ADDISON TX 75001
107039053011 1 NO1110	107039056079 1 NO1110
FOSTER WHEELER ENERGY CORP	FOSTER WHEELER ENERGY CORP
W J FINAN	CHARLES NASH
QUALITY ASSURANCE	110 SOUTH ORANGE AVENUE
110 SOUTH ORANGE AVENUE	LIVINGSTON NJ 07039
LIVINGSTON NJ 07039	
217110005549 1 NO1110	102035064465 1 NO1110
FOX FARR S CUNNINGHAM	FOXBORO CO
JORDAN D CUNNINGHAM	SYSTEMS OPERATIONS
2320 N SECOND ST	SYSTEMS QUALITY SERVICE
HARRISBURG PA 17110	MECHANIC ST
	0961
	FOXBORO MA 02035
102035053012 3 NO1110	102333065666 1 NO1110
FOXBORO CO	FOXBORO CO
NEPONSET PLANT	QUALITY CONTROL ENGINEERING
HAROLD O DENZER JR	GEORGE DUSTMAN
38 NEPONSET AVENUE	600 N BEDFORD ST
DEPT 137	D-784
FOXBORO MA 02035	EAST BRIDGEWATER MA 02311
115235011887 1 NO1110	120007082205 1 NO1110
FRARATONE	FRANCES E REGGINNIS ASSOC
C/O WESTINGHOUSE NES	JAY MONAHAN
CLAUDIA GRANCHE	1050 THOMAS JEFFERSON ST
300 PENN CENTER BLVD	WASHINGTON DC 20007
CLIFFE END	

185010052916 1 NO1110
GARRETT TURBINE ENGINE CO
LIBRARY
311 SOUTH 34TH STREET
PHOENIX AZ 85010

194123064672 1 NO1110
GATEWAY SYSTEM INC
R L ANDERSON
PRESIDENT
2211 UNION ST SUITE 5
SAN FRANCISCO CA 94123

102149053014 1 NO1110
GAULIN CORP
64 GARDEN ST
EVERETT MA 02149

120874082467 1 NO1110
GENCON INC
HERBERT FEINROTH
20030 CENTURY BLVD SUITE 302
PO BOX 314
GERMANTOWN MD 20874

192138001584 1 NO1110
GENERAL ATOMIC CO
NUCLEAR MATLS CONTROL DIV
LICENSING ADMINISTRATOR
P O BOX 91608
SAN DIEGO CA 92138

220006006319 1 NO1110
GENERAL ATOMIC CO
EAST COAST OFFICE
JAMES B GRAHAM
2021 K STREET NW
SUITE 709
WASHINGTON DC 20006

192138004750 1 NO1110
GENERAL ATOMIC CO
L M RABJOHNS
SUPERVISOR REC MGMT
PO BOX 91608
SAN DIEGO CA 92138

192138001466 1 NO1110
GENERAL ATOMIC CO
FRANK A WARNER
PO BOX 81608
SAN DIEGO CA 92138

10634002GO97 2 NO1110
GENERAL DYNAMICS CORP
ELECTRIC BOAT DIVISION
RAINFILM-DEPT 633
EASTERN POINT RD
GROTON CT 06340

195125001598 1 NO1110
GENERAL ELECTRIC CO
NUCLEAR ENERGY DIV
LIBRARY
175 CURTNER AVE
MC 928
SAN JOSE CA 95125

128602003626 1 NO1110
GENERAL ELECTRIC CO
WILMINGTON MANUFACTURING DEPT
MANAGER-LICENSING & MMN
P O BOX 780
J26
WILMINGTON NC 28402

106602053735 1 NO1110
GENERAL ELECTRIC CO
WIRE & CABLE BUSINESS DEPT
1285 BOSTON AVENUE
BRIDGEPORT CT 06602

119142053020 1 NO1110
GENERAL ELECTRIC CO
SWITCHGEAR BUSINESS DEPARTMENT
E&E BEDFORD
GENERAL MANAGER
6901 ELNWOLD AVE
PHILADELPHIA PA 19142

101910053023 1 NO1110
GENERAL ELECTRIC CO
R F BUCKLEY
MGR-ENGINEERING
40 FEDERAL STREET
WEST LYNN MA 01910

195125029525 1 NO1110
GENERAL ELECTRIC CO
LAWRENCE J CHOCKIE
175 CURTNER AVENUE
MC 927
SAN JOSE CA 95125

128602053025 1 NO1110
GENERAL ELECTRIC CO
WILMINGTON MFG DEPARTMENT
C W DOYLE
POST OFFICE BOX 780
A32
WILMINGTON NC 28402

119142053290 1 NO1110
GENERAL ELECTRIC CO
PHR SVS MGT BUS DEPT
E J FIERKO
GENERAL MANAGER
6901 ELNWOLD AVE
PHILADELPHIA PA 19142

295125007112 1 NO1110
GENERAL ELECTRIC CO
D E FOREMAN
PROJECT MANAGER
175 CURTNER AVE MC 682
SAN JOSE CA 95125

152601053224 1 NO1110
GENERAL ELECTRIC CO
SWITCHGEAR BUSINESS DEPARTMENT
ROGER F GREENE
MGR BURLINGTON PLANT OPERATION
AGENCY ROAD P O BOX 488
BURLINGTON IA 52601

160521065205 1 NO1110
GENERAL ELECTRIC CO
R C HOPPER
814 COMMERCE DR
SUITE 305
OAK BROOK IL 60521

195125006710 1 NO1110
GENERAL ELECTRIC CO
TC LANCASTER
SPECIALIST OP SUP ENG
175 CURTNER AVENUE
714 SAN JOSE CA 95125

128602064770 1 NO1110
GENERAL ELECTRIC CO
F M MALIGA
MGR QUALE VERT & RECORDS
PO BOX 780 MC 872
WILMINGTON NC 28402

295125006642 1 NO1110
GENERAL ELECTRIC CO
J W MILLARD
PROJECT MANAGER

194086066484 1 NO1110
GENERAL ELECTRIC CO
LICENSING & REACTOR SYSTEMS
W W PHELAN

GENERAL ELECTRIC CO
NUCLEAR ENERGY
R M WYATT
ROUTE 1 BOX 378
INOLA OK 74036

GENERAL PHYSICS CORP
CHATTANOOGA DIVISION
TECHNICAL INFORMATION CENTER
ONE NORTHGATE PARK
CHATTANOOGA TN 37415

121044079621 1 NO1110
GENERAL PHYSICS CORP
TECHNICAL INFORMATION CENTER
N E KNIGHT
ADMINISTRATOR
10650 HICKORY RIDGE RD
COLUMBIA MD 21044

120144066653 1 NO1110
GENERAL PHYSICS CORP
R R TOUZIN
SENIOR SPECIALIST
1000 CENTURY PLAZA
COLUMBIA MD 20144

130306055207 1 NO1110
GEORGIA DEPT OF HUMAN RESOURCE
RADIOLOGICAL HEALTH SECTION
BOBBY RUTLEDGE
1256 BRIARCLIFF RD NE
ROOM 425-S
ATLANTA GA 30306

130336004960 1 NO1110
GEORGIA DEPT OF NATL RESOURCES
ENVIRONMENTAL PROTECTION DIV
J L LEDBETTER
DIRECTOR
270 WASHINGTON ST SW
ATLANTA GA 30334

130332082397 1 NO1110
GEORGIA INSTITUTE OF TECH
SCHOOL-NUC ENGR & HLTH PHYSICS
M D CARLSON
ACTING DIRECTOR
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130332000551 1 NO1110
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NUCLEAR RESEARCH CENTER
R S KIRKLAND
REACTOR SUPERVISOR
ATLANTA GA 30332

130332080964 1 NO1110
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A P SHEPPARD
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225 NORTH AVENUE
ATLANTA GA 30332

230332005793 1 NO1110
GEORGIA OFF PLANNING & BUDGET
CHARLES H BADGER
270 WASHINGTON STREET SW
ROOM 610
ATLANTA GA 30334

131513080543 1 NO1110
GEORGIA POWER CO
HATCH 1 NPS
PLANT MANAGER
BAXLEY GA 31513

131513080542 1 NO1110
GEORGIA POWER CO
HATCH 2 NPS
PLANT MANAGER
BAXLEY GA 31513

130830080589 1 NO1110
GEORGIA POWER CO
VOGTLE 1 NPS
PLANT MANAGER
WAYNESBORO GA 30830

130830080579 1 NO1110
GEORGIA POWER CO
VOGTLE 2 NPS
PLANT MANAGER
WAYNESBORO GA 30830

230302005794 1 NO1110
GEORGIA POWER CO
J T BECKHAM
VICE PRESIDENT-NUC GENERATION
PO BOX 4545
ATLANTA GA 30302

130302008706 1 NO1110
GEORGIA POWER CO
NUCLEAR GENERATION
J T BECKHAM JR
PO BOX 4545
333/16 ATLANTA GA 30302

131513080897 1 NO1110
GEORGIA POWER CO
C E BELFLOWER
SITE QA SUPERVISOR
PO BOX 442
BAXLEY GA 31513

230302001549 1 NO1110
GEORGIA POWER CO
POWER SUPPLY
DOUG DUTTON
VICE PRESIDENT-PRODUCT MGMT
PO BOX 4545
ATLANTA GA 30302

130302080901 1 NO1110
GEORGIA POWER CO
D O FOSTER
V PRESIDENT & GENERAL MANAGER
PO BOX 4545
ATLANTA GA 30302

130830080903 1 NO1110
GEORGIA POWER CO
H H GREGORY
CONSTRUCTION PROJECT MANAGER
PO BOX 282
WAYNESBORO GA 30830

130830080902 1 NO1110
GEORGIA POWER CO
E D GROOVER
QA SITE SUPERVISOR
PO BOX 282

230302001431 1 NO1110
GEORGIA POWER CO
L T GUCHWA
CHIEF NUCLEAR ENGINEER
PO BOX 4545

B K WILK
SITE RECORDS MGMT SUPVR
PO BOX 282 PLANT VOIGTL
WAYNESBORO GA 30830

W L SHUMAN
SITE DOCUMENT SUPERVISOR
PO BOX 282
WAYNESBORO GA 30830

130334080966 1 NO1110
GEORGIA PUBLIC SERVICE COM
HUGH S JORDAN
EXECUTIVE SECRETARY
244 WASHINGTON ST SW
ATLANTA GA 30334

1NGERM081467 1 NO1110
GESELLSCHAFT FUR REAKTORSICHE
E LINDAUER
GLICKENGASSE 2
5000 COLOGNE 1
WGERMAN

110001008192 1 NO1110
GIBBS & HILL INC
LIBRARY
RALPH F DEANGELIS
CHIEF LIBRARIAN
11 PENN PLAZA
NEW YORK NY 10001

110001022168 1 NO1110
GIBBS & HILL INC
N N KEDDIS
MANAGER QA
393 7TH AVE
NEW YORK NY 10001

110001081577 1 NO1110
GIBBS & HILL INC
D C PURDY
MANAGER-ADVANCED TECH
11 PENN PLAZA
NEW YORK NY 10001

195110064501 1 NO1110
GIBBS & HILL INC
WESTERN REGIONAL OFFICE
JACQUELYN L RICHARDSON
SR TECH ADM SPECIALIST
226 W BROKAW RD
SAN JOSE CA 95110

210001006517 1 NO1110
GIBBS & HILL INC
H R ROCK
393 SEVENTH AVE
NEW YORK NY 10001

110001008707 1 NO1110
GIBBS & HILL INC
PETER M SMITH
PRESIDENT
393 SEVENTH AVENUE
NEW YORK NY 10001

119603008708 1 NO1110
GILBERT ASSOCIATES INC
JAMES R STOUT
PRESIDENT
PO BOX 1498
READING PA 19603

119603053027 1 NO1110
GILBERT ASSOCIATES INC
IND E ENERGY RES DIV
W H TRAFFAS
525 LANCASTER AVENUE
LA220
READING PA 19603

119603007983 1 NO1110
GILBERT ASSOCIATES INC
LIBRARY
R WIRTH
P O BOX 1498
READING PA 19603

119603081110 1 NO1110
GILBERT ASSOCIATES INC
RITA WORTH
PO BOX 1498
READING PA 19603

119603064712 1 NO1110
GILBERT COMMONWEALTH
L B EILAND
RECORDS MGMT CONSULTANT
PO BOX 1498
READING PA 19603

144081064634 1 NO1110
GILBERT COMMONWEALTH
R D POTTS
RECORDS MGMT SUPERVISOR
PO BOX 97
PERRY OH 44081

119606064635 1 NO1110
GILBERT COMMONWEALTH
INFORMATION MGMT DEPT
B M PRATHER
MANAGER
PO BOX 1498
READING PA 19606

270116001282 1 NO1110
GILLESPIE & JONES
LUKE FONTANA
FSQUIRE
824 ESPLANADE AVENUE
NEW ORLEANS LA 70116

131520026178 1 NO1110
GLYNN COUNTY HEALTH DEPT
JERRY MORRIS
RADIATION SAFETY OFFICER
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BRUNSWICK GA 31520

144316022802 1 NO1110
GOODYEAR CORP
RESEARCH DIVISION
P J REILLY
162 GOODYEAR BLVD
AKRON OH 44316

121048081045 1 NO1110
GOULD INC
MOTOR CONTROL CENTER
GENE CONAHAN
PRODUCT SALES MANAGER
2002 BETHEL RD
FINKSBURG MD 21048

119042053031 1 NO1110
GOULD INC
INDUSTRIAL BATTERY DIVISION
RAYMOND R FLETCHER
2050 CABOT BLVD W
LANGHORNE PA 19042

121048021778 1 NO1110
GOULD INC
DISTRIBUTION & CONTROLS DIV
ROBERT MATHEN
2002 BETHEL RD
FINKSBURG MD 21048

107054005790 1 NO1110
GPU NUCLEAR
HQ LIBRARY
LIBRARIAN
100 INTERFACE PKWY
PARTNERSHIP NJ 07054

111057061559	1 NO1110	21705700114	1 NO1110
GPU NUCLEAR TMI-2 J E LARSON SUPERVISOR OF LICENSING PO BOX 480 MIDDLETON PA 17057		GPU NUCLEAR TMI-1 C W SMYTH LICENSING SUPERVISOR PO BOX 480 MIDDLETON PA 17057	
111057061559	1 NO1110	217057006294	1 NO1110
GPU NUCLEAR J W THIESING MANAGER-RECOVERY PROGRAMS PO BOX 480 MIDDLETON PA 17057		GPU NUCLEAR R J DOOLEY MANAGER TMI-1 PO BOX 480 MIDDLETON PA 17057	
1107054034680	1 NO1110	2D7054001271	1 NO1110
GPU NUCLEAR E C WALLACE PMI LICENSING MANAGER 100 INTERPACE PARKWAY PARSIPPANY NJ 07054		GPU NUCLEAR E C WALLACE LICENSING MANAGER 100 INTERPACE PARKWAY PARSIPPANY NJ 07054	
1107054080995	1 NO1110	119603064751	1 NO1110
GPU SERVICE CORP M K PASTOR PROJECT MANAGER 260 CHERRY HILL RD PARSIPPANY NJ 07054		GPU SERVICE CORP L B SHATTUCK SUPVR EDUCATION/STANDARDS PO BOX 1018 READING PA 19603	
248540000958	1 NO1110	1GREEC057557	1 NO1110
GREAT LAKES ENERGY ALLIANCE MARY SINCLAIR 5711 SUMMERSET DRIVE MIDLAND MI 48640		GREEK ATOMIC ENERGY COMMISSION NRC DEMOKRITOS JOHN KOLLAS NUCLEAR REGULATORY SERVICES AGIA PARASKEVI ATTIKI GREECE	
274103005187	1 NO1110	190040053034	1 NO1110
GREEN FELDMAN HALL & WOODARD JOSEPH R FARRIS ESQ 816 ENTERPRISE BLDG TULSA OK 74103		GREER HYDRAULICS INC DONALD DIPOLIA SUPERVISOR CONTRACTS ADMINISTR 6500 E SLAUSON AVENUE CITY OF COMMERCE CA 90040	
108816064458	1 NO1110	152803055300	1 NO1110
GULF & WESTERN MFG CO TAYLOR BONNEY DIV M B GROHOL QA MGR-TAYLOR FORCE STAINLESS READINGTON RD SOMERVILLE NJ 08876		GULF & WESTERN MFG CO EAGLE SIGNAL DIVISION JAY HAWKINSON QA MANAGER 736 FEDERAL STREET DAVENPORT IA 52803	
138127053033	1 NO1110	102886064453	1 NO1110
GULF & WESTERN MFG CO TAYLOR FORCE DAVID L SHIRA BOX 27149 MEMPHIS TN 38127		GULF & WESTERN MFG CO FLUID SYSTEMS JOHN F WALTER GENERAL MANAGER 25 GRAYSTONE STREET WARWICK RI 02886	
132520008709	1 NO1110	170775062971	1 NO1110
GULF POWER CO B R GUTHRIE EXECUTIVE VICE PRESIDENT PO BOX 1151 PENSACOLA FL 32520		GULF STATES UTILITIES CO RIVER REND STATION LIBRARY PO BOX 220 ST FRANCISVILLE LA 70775	
170775080517	1 NO1110	177706064583	1 NO1110
GULF STATES UTILITIES CO RIVER BEND I NPS PLANT MANAGER ST FRANCISVILLE LA 70775		GULF STATES UTILITIES CO THE AMERINE SUPT NUCLEAR DOCUMENT CTR PO BOX 2951 BEAUMONT TX 77704	
177706081877	1 NO1110	177701066636	1 NO1110
GULF STATES UTILITIES CO RIVER BEND NUCLEAR GROUP WILLIAM J CAHILL SENIOR VICE PRESIDENT PO BOX 2951 BEAUMONT TX 77704		GULF STATES UTILITIES CO R G RAMSEY NUCLEAR STAFF ASSISTANT PO BOX 2951 BEAUMONT TX 77701	
277706064483	1 NO1110	177701064765	1 NO1110
GULF STATES UTILITIES CO WILLIAM J REED DIRECTOR-NUCLEAR LICENSING PO BOX 2951		GULF STATES UTILITIES CO J W SYME NUCLEAR RECORDS REPRESENT PO BOX 2951	

FRANCIS T DUHA
56 PROSPECT STREET
HARTFORD CT 06102

MELVIN K KOIZUMI
DEPUTY DIR FOR ENVIRON HEALTH
PO BOX 3378
HONOLULU HI 96801

105401053038 1 NO1110
HAYWARD TYLER PUMP CO
RICHARD GROESCHEL
GM MANAGER
POST OFFICE BOX 492
BURLINGTON VT 05401

160507053039 1 NO1110
HENRY PRATT CO
A K WILSON
VICE PRESIDENT ENGINEERING
401 SOUTH HIGHLAND AVENUE
AURORA IL 60507

220036205460 1 NO1110
HILL CHRISTOPHER & PHILLIPS
HERBERT M BROWN
LAWRENCE COE LANPHER
1900 M ST NW
WASHINGTON DC 20036

121045063964 1 NO1110
HITTMAN NUCLEAR & DEVELOP CORP
ENGINEERING
CHARLES W MALLORY
VICE PRESIDENT
9190 RED BRANCH ROAD
COLUMBIA MD 21045

1ENGLA053198 1 NO1110
HOPKINSONS LTD
BRITANNIA WORKS
R WATSON
PO BOX 827
HD2 2URJ
HODDERSFIELD ENGLAND

236301005823 1 NO1110
HOUSTON COUNTY COMMISSION
CHAIRMAN
DOOTHAN AL 36301

177416080521 1 NO1110
HOUSTON LIGHTING & POWER CO
SOUTH TEXAS 2 NPS
PLANT MANAGER
BAY CITY TX 77414

177416080520 1 NO1110
HOUSTON LIGHTING & POWER CO
SOUTH TEXAS 2 NPS
PLANT MANAGER
BAY CITY TX 77414

277001001479 1 NO1110
HOUSTON LIGHTING & POWER CO
SOUTH TEXAS PROJECT
D G BARKER
MANAGER
PO BOX 1700
HOUSTON TX 77001

177002064711 1 NO1110
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