PRC

SSINS No.:
IN 84-17

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

March 5, 1984

IE INFORMATION NOTICE NO. 84-17: PROBLEMS WITH LIQUID NITROGEN COOLING COMPONENTS BELOW THE NIL DUCTILITY TEMPERATURE

Addressees:

All holders of nuclear power reactor operating licenses (OLs) or construction permits (CPs).

Purpose:

This information notice is provided to advise licensees and applicants of potentially significant problems associated with the use of liquid nitrogen that may cool components below the nil ductility temperature (NDT) of associated materials susceptible to brittle fracture. It is expected that the recipients of this notice will review the information for applicability to their facilities. No specific action or response is required.

Description of Circumstances:

On February 3, 1984, Georgia Power Company notified the NRC of a through-wall crack almost completely encircling the vent header within the containment torus of Hatch Unit 2. Later that day IE Bulletin 84-01, "Cracks in Boiling Water Reactor Mark I Containment Vent Headers," was issued for action to the licensees of BWR facilities with Mark I containments that were in cold shutdown. The bulletin requested that these licensees perform inspections for similar cracks. The inspections revealed no cracks.

Georgia Power Company is continuing its detailed investigation of the Hatch Unit 2 crack. The preliminary investigation has revealed that the vent header crack is located in the vicinity of the purge line outlet to the torus. The purge line is approximately 20 inches in diameter with the outlet about 7 feet directly above the vent header crack. A nitrogen line approximately 6 inches in diameter is connected to the purge line outside the torus for use in inerting the primary containment. The nitrogen thus enters the torus through the purge line. The preliminary indications are that the crack is a brittle-fracture type of failure resulting from cooling of the vent header below the NDT by impingement of cold gaseous or liquid nitrogen. The thermal stresses generated by this cooling may have contributed to crack initiation and propagation. The vent header material for Hatch Unit 2 is SA 516 Grade 70 carbon steel with the nil ductility temperature in the range of -20°F to 0°F.

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PDR I&E
NOTICE84-17 PDR

The nitrogen is used to create an inert atmosphere inside the primary containment when the plant is in operation. The nitrogen supply system is designed to evaporate liquid nitrogen and warm the nitrogen gas before it is discharged. Heater controls are used to maintain the temperature of the nitrogen leaving the system at about 100°F. The discharge valve of the system is controlled by a temperature switch and is designed to isolate the system if discharge temperatures drop to 0°F. However, at Hatch Unit 2, the licensee has indicated that there have been problems with control of the nitrogen evaporators and heaters and with the low-temperature isolation provisions. Under worst-case conditions of equipment failure, the discharge temperature could approach -200°F. It appears that the vent header temperature dropped below the nil ductility temperature when the evaporator and heater were not operating properly.

Although there is no indication of other cracks at Hatch Unit 2, there are other components in the vicinity of or associated with the nitrogen piping and purge line that may have experienced large temperature drops and that may be susceptible to brittle fracture. These components include the nitrogen piping, the purge line, containment penetrations and associated valves, and the high pressure coolant injection (HPCI) steam exhaust piping.

The general concern is that liquid or cold gaseous nitrogen can potentially cool vital components of the plant below the nil ductility temperatures of susceptible associated materials. This may lead to failures such as the one at Hatch Unit 2. Licensees who have used liquid nitrogen (or other potentially very cold fluids) in applications where the fluid could come in contact with safety-related components subject to brittle fracture should consider inspecting these components for possible indication of cracks.

If you have any questions regarding this matter, please contact the Regional Administrator of the appropriate NRC Regional Office, or this office.

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

Technical Contact: R. Singh, IE
(301) 492-8068

Attachment:
List of Recently Issued IE Information Notices

LIST OF RECENTLY ISSUED
IE INFORMATION NOTICES

Information Notice No.	Subject	Date of Issue	Issued to
84-16	Failure of Automatic Sprinkler System Valves to Operate	3/2/84	All power reactor facilities holding an OL or CP
84-15	Reporting of Radiological Releases	3/2/84	All power reactor facilities holding an OL or CP
84-14	Highlights of Recent Transport Regulatory Revisions by DOT and NRC	3/2/84	All NRC licensees
84-13	Potential Deficiency in Motor-Operated Valve Control Circuits and Annunciation	2/28/84	All power reactor facilities holding an OL or CP
84-12	Failure of Soft Seat Valve Seals	2/27/84	All power reactor facilities holding an OL or CP
84-11	Training Program Deficiencies	2/24/84	All power reactor facilities holding an OL or CP
84-10	Motor-Operated Valve Torque Switches Set Below the manufacturer's Recommended Value	2/21/84	All power reactor facilities holding an OL or CP
84-09	Lessons Learned from NRC Inspections of Fire Protection Safe Shutdown Systems (10 CFR 50, Appendix R)	02/13/84	All power reactor facilities holding an OL or CP
83-63 Supp 1	Pontential Failures of Westinghouse Electric Corporation Type SA-1	2/15/84	All power reactor facilities holding an OL Or CP
84-08	10 CFR 50.7, "Employee Protection"	2/14/84	All power reactor facilities holding an OL or CP; and NSSS & AE

OL = Operating License
CP = Construction Permit

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

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NRC: CNT = 145 BULK = 256 TOT: CNT = 2485 BULK = 2652 DATE COMPLETED - 03/01/84
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103833092357 1 99999
BRENTWOOD BD OF SELECTMEN
RFD DALTON RD
BRENTWOOD NH 03833

103862092358 1 99999
BOARD OF SELECTMEN
TOWN HALL
SOUTH HAMPTON NH 03862

108731091409 1 99999
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119320054576 1 99999
MARJORIE M AAMODT
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191010986[illegible] 1 99999
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108731091409 1		99999	119320054576 1		99999
MAYOR OF LACEY TOWNSHIP			MARJORIE M AAMODT		
BIR LACEY RD			PO 5		
FORKED RIVER	NJ	08731	CLAYSVILLE	PA	16320
102109065679 1		99999	198119093809 1		99999
WILLIAM S ARNOTT			G C ANDERSON		
50 CONGRESS ST			7719 RIDGE DR NE		
SUITE 925			SEATTLE	WA	98115
BOSTON	MA	02109			
111581092043 1		99999	193401096148 1		99999
S ANDIMAN			ELIZABETH APPELBERG		
20 KALMIA LA			1435 COZADERO		
VALLEY STREAM	NY	11581	SAN LUIS OBISPO	CA	93401
178284091690 1		99999	149720078922 1		99999
ROGER BESSEY			JOANNE BIER		
6220 CULEBRA RD			204 CLINTON ST		
SAN ANTONIO	TX	78284	CHARLEVOIX	MI	49720
265061006491 1		99999	111786066814 1		99999
SAMUEL J BIRK			RONALD BOMMER		
RR #1 BOX 243			PO BOX 693		
MORRISON	MO	65061	SHORE HAM	NY	11786
177039094029 1		99999	129075023172 1		99999
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117057096199 1		99999	208080000246 1		99999
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103801093213 1		99999	101913092356 1		99999
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			AMESBURY	MA	01913
102038066056 1		99999	211780005096 1		99999
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108070022113 1		99999	133433007620 1		99999
ELEANOR G COLEMAN			F P COWAN		
35 K DRIVE			6152 N VERDE TRAIL B-125		
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			BOCA RATON	FL	33433
192087093944 3		99999	103833057219 1		99999
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
154303082318	1	99999	103060092340	1	99999
RONALD V SCHEELE RADIATION PHYSICIST 533 W CHICKADEE LA GREEN BAY	WI	54303	LOUIS SCHIFFMAN 3R ROYAL CREST DR APT 2 NASHUA	NH	03060
160172064217	1	99999	161820005917	1	99999
KEITH M SIEGEL 531 DEE LANE ROSELLE	IL	60172	CHESTER P SIESS 805 HAMILTON DRIVE ACRS CHAMPAIGN	IL	61820
193401055316	2	99999	119801093913	1	99999
SANDRA A SILVER 1760 ALISEL STREET SAN LUIS OBISPO	CA	93401	FRED SILVERMAN STATE SOLICITOR 820 N FRENCH ST WILMINGTON	DE	19801
266205006523	1	99999	148640021864	1	99999
JOHN M SIMPSON ATTORNEY FOR INTERVENORS 4350 JOHNSON DR SUITE 120 SHAWNEE MISSION	KS	66205	MARY SINCLAIR 5711 SOMERSET DRIVE MIDLAND	MI	48640
178701094158	1	99999	129745092706	1	99999
LANNY SINKIN 114 W 7TH SUITE 220 AUSTIN	TX	78701	PIERCE K SKINNER ROUTE 2 BOX 179N YORK	SC	29745
114618022609	1	99999	248623005178	1	99999
MICHAEL L SLADE 12 TRAILWOOD CIRCLE ROCHESTER	NY	14618	BARBARA STAMIRIS 5795 N RIVER FREELAND	MI	48623
161010082236	1	99999	130144092829	1	99999
A P STONE BOX D BYRON	IL	61010	JOHN E STORRS 3970 WESTMORELAND DR KENNESAW	GA	30144
106114081138	1	99999	1CANAD079706	1	99999
ROBYN TAYLOR 39 WHITMORE NO 2 HARTFORD	CT	06114	CHRIS TOOMEY 37 LOCKDALE STREET--AGINCOURT ONTARIO M1S 2Z5	CANADA	
190064094144	1	99999	115066093230	1	99999
PAUL C VALENTINE 321 LYTTON AVE PALO ALTO	CA	90064	RALPH F WALKER 151A FIFTH ST NEW BRIGHTON	PA	15066
260602006323	1	99999	119010066205	1	99999
JANE M WHICHER 109 NORTH DEARBORN CHICAGO	IL	60602	JOSEPH H WHITE 8 N WARNER AVE BRYN MAWR	PA	19010
208221006299	1	99999	223883005666	1	99999
JOHN WILLIAMSON 211 FOREST DRIVE LINWOOD	NJ	08221	J L WILSON MANAGER PO BOX 315 SURRY	VA	[illegible]

211 [illegible] DRIVE
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64 N UNION ST ADMIN BLDG
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236104005862 1 99999
ALABAMA DEPT OF PUBLIC HEALTH
STATE HEALTH OFFICER
STATE OFFICE BUILDING
MONTGOMERY AL 36104

136130056611 1 99999
ALABAMA DEPT OF PUBLIC HEALTH
ENVIRONMENTAL HEATH ADMIN
AUBREY GODWIN
CHIEF-BUREAU OF RAD HEALTH
510 STATE OFC BLDG
MONTGOMERY AL 36130

236420006551 1 99999
ALABAMA ELECTRIC CO
CHARLES R LOWMAN
PO BOX 550
ANDALUSIA AL 36420

136319082531 1 99999
ALABAMA POWER CO
FARLEY 1 NPS
PLANT MANAGER
[illegible]

PO BOX [illegible]
ANDALUSIA AL 36420

136319080862 1 99999
ALABAMA POWER CO
FARLEY 2 NPS
PLANT MANAGER
COLUMBIA AL 36319

135203074289 1 99999
ALABAMA POWER CO
NUCLEAR GENERATION
C H MUDD
DOCUMENT CONTROL SUPERVISOR
600 N 18TH ST
BIRMINGHAM AL 35203

198124091367 1 99999
ALASKAN COPPER WORKS
STAINLESS STEEL DIV
DONALD ROSEN
QA MANAGER
3200 6TH AVE SOUTH
SEATTLE WA 98124

107006079661 1 99999
ALISCN CONTROL INC
JAMES D MICELI
DIRECTOR OF MARKETING
35 DANIEL ROAD WEST
FAIRFIELD NJ 07006

129812030871 1 99999
ALLIED GENERAL NUC SERVICES
R L ROGELL
PO BOX 847
BARNWELL SC 29812

117405091371 1 99999
ALLIS CHALMERS CORP
VALVE DIV
JAMES THOMPSON
LINCOLN & HARTLEY STS
POB 893
YORK PA 17405

153024091373 1 99999
AMERACE CORP
CONTROL PRODUCTS DIV
MEL Q MARTIN
QA MANAGER
100 HICKORY ST
GRAFTON WI 53024

149106004699 1 99999
AMERICAN ELEC POWER SVC CORP
DC COOK NPS
W G SMITH
PLANT MANAGER
PO BOX 458
BRIDGMAN MI 49106

102862091376 1 99999
AMERICAN INSULATED WIRE CORP
W H FIRTH
QA MANAGER
36 FREEMAN ST POB 880
PAWTUCKET RI 02862

143537091377 1 99999
AMERICAN WARMING & VENT INC
DONALD SLUAN
QA MANAGER
1510 INDIAN WOOD CIRCLE
MAUMEE OH 43537

192021053502 1 53999
AMETEK INC
SIPAZA DIV
WENDELL J PEET
QA DIRECTOR

PLANT MANAGER
COLUMBIA AL 36319

135291006797 1 99999
ALABAMA POWER CO
POWER GENERATION
F L CLAYTON
SR VICE PRESIDENT
PO BOX 2641
BIRMINGHAM AL 35291

199811091840 1 99999
ALASKA ENVIRON CONSERV DEPT
RICHARD A NEVE
POUCH O
JUNEAU AK 99811

136331091368 1 99999
ALSAR INC
BRUCE GRANTHAM
QA MANAGER
PO BOX 1336
ENTERPRISE AL 36331

129812025953 1 99999
ALLIED GENERAL NUC SERVICES
J A BUCKHAM
PO BOX 847
BARNWELL SC 29812

117405091370 1 99999
ALLIS CHALMERS CORP
VALVE DIV
R L SHEAFFER
QA MANAGER
LINCOLN & HARTLEY STS
YORK PA 17405

153024052919 1 99999
AMERACE CORP
CONTROL PRODUCTS DIVISION
R J BERTLING
1000 HICKORY STREET
100 HICKORY STREET
GRAFTON WI 53024

138012091374 1 99999
AMERICAN AIR FILTER CO INC
JAMES LAWRENCE
QA ENGR SUPERVISOR
2000 TAMM ST
BROWNSVILLE TN 38012

111763091375 1 99999
AMERICAN ENVIRONMENTS CO INC
17 COMMERCIAL BLVD
MEDFORD NY 11763

106032031448 2 99999
AMERICAN NUCLEAR INSURERS
LIBRARY
DOTTY SHERMAN
270 FARMINGTON AVE
SUITE 245
FARMINGTON CT 06032

119020091378 1 99999
AMETEK INC
SCHUFF & KOERTING DIV
THOMAS BAILEY
QA DIRECTOR
2233 STATE RD
CORNWELL HEIGHTS PA 19020

117406052922 1 99999
ANACONDA CO
CONTINENTAL WIRE AND CABLE COR
QUALITY ASSURANCE MANAGER

WENDELL J PERT
QA DIRECTOR
790 GREENFIELD DRIVE
EL CAJON CA 92021

106830091710 1 99999
ANACONDA-ERICSSON INC
WIRE & CABLE DIV
GREENWICH OFFICE PARK 3
POB 3110
GREENWICH CT 06830

119355091737 1 99999
ANACONDA-ERICSSON INC
EDWARD J RUJA
DIRECTOR OF EDTC
31 GREAT VALLEY PKWY
MALVERN PA 19355

117701002849 1 99999
ANCHOR DARLING VALVE CO
W G KNECHT
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701 FIRST ST
WILLIAMSPORT PA 17701

194402052923 1 99999
ANCHOR DARLING VALVE CO
SALES DIVISION
R T WEEK
VICE PRESIDENT
1650 S AMPHLETT BLVD #319
SAN MATEO CA 94402

177036052925 1 99999
ANDERSON GREENWOOD & CO
FRANK PIZZITOLA
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163118094226 1 99999
ANHEUSER-BUSCH CO
ENVIRON ENGR & RESOURCES
ROBERT WACHTER
ONE BUSCH PL
ST LOUIS MO 63118

260935001635 1 99999
APPLESEED COORDINATOR
BRIDGET L ROREM
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ESSEX IL 60935

129115055443 1 99999
APPLIED ENGINEERING CO INC
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PO BOX 1327
ORANGEBURG SC 29115

194303056998 1 99999
APTECH ENGINEERING SERVICES
STEVE A LEFTON
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183401002213 1 99999
ARGONNE NATIONAL LABORATORY
IDAHO FACILITIES
LIBRARIAN
P O BOX 2528
IDAHO FALLS ID 83401

160439005948 1 99999
ARGONNE NATIONAL LABORATORY
R W WEEKS
9700 SOUTH CASS AVENUE
ARGONNE IL 60439

QUALITY ASSURANCE MANAGER
GULTON ROAD
YORK PA 17404

146952000017 1 99999
ANACONDA-ERICSSON INC
WIRE & CABLE DIV
DAVID D BOSTROM
PO BOX 188-EAST ST
Q A DEPT
MARION IN 46952

117701091379 1 99999
ANCHOR DARLING VALVE CO
J J CHAPPELL
QA DIRECTOR
PO BOX 3428
WILLIAMSPORT PA 17701

117701091380 1 99999
ANCHOR DARLING VALVE CO
G W KNIESER
QA MANAGER
701 FIRST ST PO BOX 3428
WILLIAMSPORT PA 17701

177401081434 1 99999
ANDERSON GREENWOOD & CO
INDUSTRIAL PRODUCTS DIVISION
D S BISHOP
PO BOX 1097
BELLAIRE TX 77401

106877031780 1 99999
ANEFCO INC
J D MURPHY
904 ETHAN ALLEN HIGHWAY
RIDGEFIELD CT 06877

11TALY081551 1 99999
ANSALDO SPA DBGV
TULLIO RADINO
DOP MANAGER
VIALE SARCA 336
MILANO 20126 ITALY

195030066339 1 99999
APPLIED ENGINEERING ASSOC
ROBERT PETROKAS
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15425 LOS GATOS BLVD
LOS GATOS CA 95030

129115052926 1 99999
APPLIED ENGINEERING CO INC
STEVEN METTA
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1525 CHARLESTOWN ROAD
ORANGEBURG SC 29115

117851091381 1 99999
ARCOS CORP
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RTE 51 & 64
MT CARMEL PA 17851

160439002189 1 99999
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160443055307 1 99999
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185007094149 1 99999
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185001080502 1 99999
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PALO VERDE 3 NPS
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185036602947 1 99999
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172201002410 1 99999
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172801080569 1 99999
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RUSSELVILLE AR 72801

172203005004 1 99999
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172203093192 1 99999
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LITTLE ROCK AR 72203

172203009220 1 99999
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ENERGY SUPPLY
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LITTLE ROCK AR 72203

195003067159 1 99999
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244047006445 1 99999
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184015052930 1 99999
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T J JONES
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9700 S CASS AVENUE
ARGONNE IL 60439

185001090503 1 99999
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PALO VERDE 2 NPS
PLANT MANAGER
PHOENIX AZ 85001

185036080504 1 99999
ARIZONA PUBLIC SERVICE CO
PALO VERDE NGS
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6125
PHOENIX AZ 85036

185281064198 1 99999
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CHARLES F TEDFORD
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TEMPE AZ 85281

272801007100 1 99999
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CHIEF PLANNER/SUPERVISOR
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172801080570 1 99999
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ARKANSAS 2 NPS
PLANT MANAGER
PO BOX 608
RUSSELVILLE AR 72801

172801064687 1 99999
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PO BOX 608
RUSSELLVILLE AK 72801

172801079376 1 99999
ARKANSAS POWER & LIGHT CO
ARKANSAS NUCLEAR ONE
JAMES M LEVINE
PLANT MANAGER
PO BOX 608
RUSSELLVILLE AR 72801

132785052928 1 99999
ARMCO INC
STAINLESS STEEL DIV
ROBERT W SCHULTZ
QUALITY ASSURANCE SUPV
RT 2 BOX 1A
WILDWOOD FL 32785

120853079690 1 99999
ARTHUR M CARTER JR & ASSOC
14632 CROSSWAY RD
ROCKVILLE MD 20853

190224052929 1 99999
ASSOC PIPING & ENGINEERING CO
DIV OF JOHNSON CONTROLS
1707 W COMPTON BLVD
COMPTON CA 90224

190224091382 1 99999
ASSOC PIPING & ENGINEERING CO
JOHNSON CONTROLS DIV
R L JORDON

I J JONES
VICE PRESIDENT
651 FREEPORT INDUSTRIAL PKWY
CLEARFIELD UT 84015

265001005193 1 99999
ASSOCIATED ELEC COOP INC
GERALD F DIDDLE
GENERAL MANAGER
PO BOX 754
SPRINGFIELD MO 65801

194043091235 1 99999
ASTRON RESEARCH & ENGINEERING
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MOUNTAIN VIEW CA 94043

130603081899 1 99999
ATHENIANS FOR CLEAN ENERGY
TOM CLEMENTS
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ATHENS GA 30603

123502056821 1 99999
ATLANTIC NUCLEAR SERVICES INC
ALAN SONNER
PO BOX 12716
NORFOLK VA 23502

122065091385 1 99999
ATLAS MACHINE & IRON WORKS
LEN DUCHARME
QA MANAGER
7308 WILLINGTON RD
GAINSVILLE VA 22065

1TAIWA067161 1 99999
ATOMIC ENERGY COUNCIL
VICTOR CHEN-HWA CHENG
ADMINISTRATOR
67 LANE 144 KEELUNG RD SEC 4
TAIPEI 107 TAIWAN

1CANAD056819 1 99999
ATOMIC ENERGY OF CANADA LTD
LIBRARY
SUSAN NISH
1600 DORCHESTER BLVD WEST
H3H 1P9
MONTREAL QUEBEC CANADA

191304006355 1 99999
ATOMICS INTERNATIONAL
PO BOX 309
CANOGA PARK CA 91304

107932079111 1 99999
AUTOMATIC SWITCH CO
WILLIAM M BROWN
SUPERVISOR-GOVT & NUCLEAR SALE
HANOVER ROAD
FLORHAM PARK NJ 07932

120910291388 1 99999
AUTOMATION INDUSTRIES INC
VITRO DIV
JAMES DOUGHERTY
QA MANAGER
14000 GEORGIA AVE
SILVER SPRING MD 20910

162249052969 1 99999
B LINE SYSTEMS INC
DONALD MATLOCK
Q A MANAGER
509 WEST MONROE STREET

JOHNSON CONTROLS DIV
R L JORDON
QA MANAGER
1707 W COMPTON BLVD POB 4309
COMPTON CA 90224

107013055837 1 99999
ASSOCIATED TECHNOLOGIES INC
C RALLO
1200 ROUTE 46
CLIFTON NJ 07013

106001093754 1 99999
ATCOR ENGINEERING SYSTEMS INC
CHEM NUCLEAR DIV
135 DARLING DR
AVON CT 06001

108232092197 1 99999
ATLANTIC CITY ELECTRIC CO
M I HARLACHER
VICE PRESIDENT-ENGINEERING
1199 BLACK HORSE PIKE
PLEASANTVILLE NJ 08232

107012091384 1 99999
ATLAS INDUSTRIAL MFG CO
HARRELL HOLLOWAY
QA MANAGER
81 SOMERSET PL
CLIFTON NJ 07012

1CCNAD091227 1 99999
ATOMIC ENERGY CONTROL BOARD
DIRECTORATE OF REACTOR REGULAT
G ISMACK
PO BOX 1046
OTTAWA K1P 5S9 CANADA

1EGYPT066990 1 99999
ATOMIC ENERGY ESTABLISHMENT
F H HAMMAD
ADMINISTRATOR
101 KASR ELEINY ST
CAIRO EGYPT

120814040062 1 99999
ATOMIC INDUSTRIAL FORUM
TECHNICAL DEPT
PATRICK C HIGGINS
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7101 WISCONSIN AVENUE
BETHESDA MD 20814

101970091386 1 99999
ATWOOD & MORRILL CO INC
V W TONEATTI
CORP QA MANAGER
285 CANAL ST
SALEM MA 01970

107932091387 1 99999
AUTOMATIC SWITCH CO
L S OLSEN
QC MANAGER
50-56 HANOVER RD
FLORHAM PARK NJ 07932

1CANAD053197 1 99999
B & W CANADA LTD
GALT ONTARIO CANADA

144203052935 1 99999
BABCOCK & WILCOX CO
NED-RW922B
PO BOX 271
BARBERTON OH 44203

DONALD ATLACK
Q A MANAGER
509 WEST MONROE STREET
HIGHLAND IL 62249

12450500577 1 99999
BABCOCK & WILCOX CO
RESEARCH & DEVELOPMENT DIV
LICENSE ADMINISTRATOR
PO BOX 1260
LYNCHBURG VA 24505

12081400143I 1 99999
BABCOCK & WILCOX CO
POWER GENERATION DIV
R B BORSUM
7910 WOODMONT AVE
SUITE 220
BETHESDA MD 20814

14460109139G 1 99999
BABCOCK & WILCOX CO
ALLIANCE RESEARCH CTR
E H FISHER
1562 BEECH ST
ALLIANCE OH 44601

115613091390 1 99999
BABCOCK & WILCOX CO
NUCLEAR MATLS DIV
J D LINT
QA MANAGER
609 N WARREN AVE
APOLLO PA 15613

14420309171I 1 99999
BABCOCK & WILCOX CO
ROD MOULES
QA MANAGER
20 S VAN BUREN AVE
BARBERTON OH 44203

224505001346 1 99999
BABCOCK & WILCOX CO
BELLEFONTE
E G WARD
SENIOR PROJECT MANAGER
PO BOX 1260
LYNCHBURG VA 24505

124505080963 1 99999
BABCOCK & WILCOX CO
VIRGINIA OPERATIONS
D W ZEFF
MANAGER-MATERIALS & FACILITIES
PO BOX 800
LYNCHBURG VA 24505

144092091392 1 99999
BAILEY CONTROLS CO
GARY COLE
QA DIRECTOR
29801 EUCLID AVE
WICKLIFFE OH 44092

177002065267 1 99999
BAKER & BOTTS
HELBERT D SCHARTZ
ONE SHELL PLAZA
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221203005869 1 99999
BALTIMORE GAS & ELECTRIC CO
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120657006431 1 99999
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QUALITY ASSURANCE DEPARTMENT
S M DAVIS
[illegible]

[illegible]
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124505006667 4 99999
BABCOCK & WILCOX CO
TECHNICAL LIBRARY
PO BOX 1260
LYNCHBURG VA 24505

124505091714 1 99999
BABCOCK & WILCOX CO
NUCLEAR MATERIALS DIV
J FICOR
QA MANAGER
PO BOX 1260
LYNCHBURG VA 24505

147620091712 1 99999
BABCOCK & WILCOX CO
L R HUTCHINSON
QA MANAGER
HWY 69 SOUTHWEST
MOUNT VERNON IN 47620

124505091713 1 99999
BABCOCK & WILCOX CO
NUCLEAR POWER GENERATION
A L MCKINNEY
QA MANAGER
PO BOX 1260
LYNCHBURG VA 24505

124505001578 1 99999
BABCOCK & WILCOX CO
LICENSING NP GEN DIV
J H TAYLOR
P O BOX 1260
LYNCHBURG VA 24505

124505093375 1 99999
BABCOCK & WILCOX CO
WPPSS PROJECTS
D C WINTERICH
SR PROJECT MANAGER
PO BOX 1260
LYNCHBURG VA 24505

174112091391 1 99999
BADGER METER INC
DENNY THOMPSON
6116 E 15TH ST
TULSA OK 74112

144092079497 1 99999
BAILEY CONTROLS CO
BRUCE J FEIKLE
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2UR
WICKLIFFE OH 44092

235201005824 1 99999
BALCH BINGHAM BAKER & HAWTHORN
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121203081567 1 99999
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120657063178 1 99999
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CLVRT CLIFFS NUC PWR PLANT
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121203081568 0 99999
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121203006139 1 99999
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120657002981 1 99999
BALTIMORE GAS & ELECTRIC CO
CALVERT CLIFFS NUCLEAR PLANT
L B RUSSELL
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121203079435 3 99999
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191749091393 1 99999
BARTON INSTRUMENTS
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CITY OF INDUSTRY CA 91749

299352006415 1 99999
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WALT APLEY
C/O MAX CLAUSEN
BATTELLE BLVD-SIGMA IV BLDG
RICHLAND WA 99352

143201064637 1 99999
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PROJECT REQUEST DIV
505 KING AVE
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148104001113 1 99999
BECHTEL POWER CORP
CENTRAL LIBRARY
LIBRARIAN
777 E EISENHOWER PKWY
ANN ARBOR MI 48104

177252006455 3 99999
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194119064588 1 99999
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190650082510 1 99999
BECHTEL POWER CORP
DOCUMENT PROCESSING LAPD
FONA DEMKOWSKI
12400 E IMPERIAL HWY

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221203005875 1 99999
BALTIMORE GAS & ELECTRIC CO
QUALITY ASSURANCE DEPT
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221203005870 1 99999
BALTIMORE GAS & ELECTRIC CO
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220657007021 1 99999
BALTIMORE GAS & ELECTRIC CO
CALVERT CLIFFS NPS
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LUSBY MD 20657

195060063660 1 99999
BARON & ASSOCIATES INC
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207 MISSION STREET
SANTA CRUZ CA 95060

191749052960 1 99999
BARTON INSTRUMENTS
UNIT OF ITT
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CITY OF INDUSTRY CA 91749

199352006329 1 99999
BATTELLE PACIFIC NORTHWEST LAB
SPENCER H BUSH
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RICHLAND WA 99352

137830094196 1 99999
BECHTEL NATIONAL INC
VAL BOUCHARD
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194119064724 1 99999
BECHTEL POWER CORP
NFO LIBRARY
PO BOX 3965
SAN FRANCISCO CA 94119

294119006280 1 99999
BECHTEL POWER CORP
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SAN FRANCISCO CA 94119

120877026694 1 99999
BECHTEL POWER CORP
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148106052944 1 99999
BECHTEL POWER CORP
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DRUPSEY PROCESSING LAND
EDNA DLARKOWSKI
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BLDG 44
NORWALK CA 90650

14801609139 6 1 99999
BECHTEL POWER CORP
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27700100706 7 1 99999
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29411900645 7 1 99999
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50 BEALE STREET - PO BOX 3965
SAN FRANCISCO CA 94119

19411906471 9 1 99999
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29006000712 7 1 99999
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19411909139 7 1 99999
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29411900644 4 1 99999
BECHTEL POWER CORP
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19411900610 4 1 99999
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MET 35/B5
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22087700124 7 1 99999
BECHTEL POWER CORP
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19411909139 4 1 99999
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19006000112 6 1 99999
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12087706467 6 1 99999
BECHTEL POWER CORP
F P JONES
SUPERVISOR REC MGMT
15740 SHADY GROVE ROAD
GAITHERSBURG MD 20877

12087700674 8 1 99999
BECHTEL POWER CORP
QA DEPT
D C KANSAL
15740 SHADY GROVE ROAD
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19065006462 0 1 99999
BECHTEL POWER CORP
C Y LOPINSKY
STAFF ENGINEER
12400 E IMPERIAL HWY
NORWALK CA 90650

19065009192 1 1 99999
BECHTEL POWER CORP
LIBRARY
DEE MORRIS
12400 E IMPERIAL HWY
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19006009139 5 1 99999
BECHTEL POWER CORP
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R L PATTERSON
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19006000090 9 1 99999
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19065006464 8 1 99999
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22087700587 2 1 99999
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14810602970 4 1 99999
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12936008009 2 1 99999
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103246091787 1 99999
BERGEN PATERSON PIPESUPPORT CO
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177484091399 1 99999
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11INDIA003464 1 99999
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197210052948 1 99999
BINGHAM WILLAMETTE CO
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D I ROVE
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110004054611 1 99999
BISHOP LIBERMAN COOK ET AL
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220036000900 1 99999
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164114079072 1 99999
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133528004318 1 99999
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119468094184 1 99999
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198188091401 1 99999
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249720005383 1 99999
BIG ROCK POINT NUC POWER PLANT
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120036081372 1 99999
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210004005446 1 99999
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102125052954 1 99999
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164114091400 1 99999
BLACK & VEATCH
R E BLAISDELL
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1WGERM005318 1 99999
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190749078990 1 99999
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190058052965 1 99999
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102199064607 1 99999
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102125091403 1 99999
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65 BAY ST UPHAMS CORNER PS
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102141062526 1 99999
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106226052955 1 99999
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106226091411 1 99999
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111973005037 1 99999
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NUCLEAR SAFETY LIBRARY
LIBRARIAN
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177001091414 1 99999
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177001064762 1 99999
BROWN & ROOT INC
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177001064728 1 99999
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119044091417 1 99999
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174145091415 1 99999
BROWN BOVERI ELECTRIC INC
SWITCHGEAR OPERATIONS
DON PURKEY
QA MANAGER
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TULSA OK 74145

1WGERM053329 1 99999
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ABT TPE 14
FACHBUCHEREI
DUDENSTR 44
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146236091418 1 99999
BUEHLER NUCLEAR PRODUCTS CO
W WAYLES
QA MANAGER
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106856057905 1 99999
BURNDY CORP
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ASSOC UNIVERSITIES INC
ASSISTANT TO THE DIRECTOR
UPTON NY 11973

111973066851 1 99999
BROOKHAVEN NATIONAL LABORATORY
REACTOR DIVISION
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UPTON
BLDG 703
LONG ISLAND NY 11973

177001064710 1 99999
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177001064659 1 99999
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177001052958 1 99999
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119477053734 1 99999
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D D DUVALL
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SPRING HOUSE PA 19477

119477091416 1 99999
BROWN BOVERI ELECTRIC INC
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E W RHOADS
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240202000508 1 99999
BROWN TODD & HEYBURN
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ESQUIRE
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141042091420 1 99999
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107649001157 1 99999
BURNS & ROE INC
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ORADELL NJ 07649

107649066903 1 99999
BURNS & ROE INC
JOHN FILWANGER
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ORADELL NJ 07649

107649093711 1 99999
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ORADELL NJ 07649

107645038055 1 99999
BUTLER SERVICE GROUP INC
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106450020109 1 99999
C H FLAGG CO
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195814093978 1 99999
CALIFORNIA ENERGY COMMISSION
SITING & ENVIRONMENTAL
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16
SACRAMENTO CA 95814

195814091833 1 99999
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195816092022 1 99999
CALIFORNIA RADIO MATLS MGMT
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177251090108 1 99999
CAMERON IRON WORKS INC
FORGED PRODUCTS DIV
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MARKETING MANAGER
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118915093373 1 99999
CAPITAL CONTROLS CO INC
L M WILFORD
3000 ADVANCE LANE
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143216091428 1 99999
CAPITOL MFG CO
DIV OF HARVO CORP
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215077005708 1 99999
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119462091424 1 99999
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191802052970 1 99999
C F BRAUN & CO
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119004091427 1 99999
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119004052967 1 99999
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119063091429 1 99999
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119102028466 1 99999
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290064001271 1 99999
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1BELGI057562 1 99999
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129550080516 1 99999
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128461080961 1 99999
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129550080894 1 99999
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128461030566 1 99999
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119603052968 1 99999
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160521079443 1 99999
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138113091430 1 99999
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WALT DEHKERS
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1ENGLA032235 1 99999
CENTRAL ELECTRIC GEN BOARD
CENTRAL LIBRARY
G G TERRY
CHIEF LIBRARIAN
18 WARWICK LANE COURTENAY HSE
LONDON EC4P 4ER ENGLAND

278403001480 1 99999
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1FRANC003524 1 99999
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176101091431 1 99999
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105404053041 1 99999
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102199067190 1 99999
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129212091433 1 99999
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166410082417 1 99999
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117331091434 1 99999
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129210074270 1 99999
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117331091372 1 99999
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140232091728 1 99999
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EXECUTIVE DIRECTOR
ROUTE 1 BOX 1684
BRAZORIA TX 77422

278767001481 1 99999
CITY OF AUSTIN
ELECTRIC UTILITY DEPARTMENT
H L PETERSON
G POKORNY
PO BOX 1088
AUSTIN TX 78767

101950093219 1 99999
CITY OF NEWBURYPORT
OFFICE OF MAYER
RICHARD E SULLIVAN
MAYOR
CITY HALL
NEWBURYPORT MA 01950

292672005376 1 99999
CITY OF SAN CLEMENTE
MAYOR
SAN CLEMENTE CA 92672

144143091440 1 99999
CLEVELAND DEVELOPMENT CO
C J SKINGLE
MANAGER
625 ALPHA DR HIGHLAND HTS
CLEVELAND OH 44143

144081080498 1 99999
CLEVELAND ELEC ILLUMINATING CO
PERRY 2 NPS
PLANT MANAGER
PERRY OH 44081

ZIMMER 1 NPS
PLANT MANAGER
MOSCOW OH 45153

145153091926 1 99999
CINCINNATI GAS & ELECTRIC CO
ZIMMER NPS
GREGORY C FICKE
MANAGER-NUCLEAR LICENSING DEPT
US ROUTE 52 PO BOX 2023
MOSCOW OH 45153

145153082370 1 99999
CINCINNATI GAS & ELECTRIC CO
ZIMMER NPS
J WILLIAMS
SENIOR VICE PRESIDENT
RTE 52 PO BOX 2023
MOSCOW OH 45153

218501001498 1 99999
CITIZENS AGAINST NUC DANGERS
THOMAS J HALLIGAN
CHAIRPERSON
PO BOX 5
SCRANTON PA 18501

278233006150 1 99999
CITIZENS CONCERNED ABT NUC PWR
PAT COY
5106 CASA ORO
SAN ANTONIO TX 78233

217043005514 1 99999
CITIZENS FOR A SAFE ENVIRON
VIRGINIA SOUTHARD
CHAIRMAN
264 WALTON ST
LEMOYNE PA 17043

278767007039 1 99999
CITY OF AUSTIN
JONATHAN DAVIS
ASST CITY ATTORNEY
PO BOX 1088
AUSTIN TX 78767

249106005691 1 99999
CITY OF BRIDGMAN
MAYOR
BRIDGMAN MI 49106

119107092140 1 99999
CITY OF PHILADELPHIA
LAW DEPT
MARTHA W BUSH
DEPUTY CITY SOLICITOR
1530 MUNICIPAL SERVICES BLDG
PHILADELPHIA PA 19107

160099081553 1 99999
CITY OF ZION
HOWARD P EVERLINE
MAYOR
2828 SHERIDAN RD
ZION IL 60099

144081080499 1 99999
CLEVELAND ELEC ILLUMINATING CO
PERRY 1 NPS
PLANT MANAGER
PERRY OH 44081

144081081501 1 99999
CLEVELAND ELEC ILLUMINATING CO
PERRY NPS
L BECK
SUPERVISOR-LICENSING & FUELS

PLANT MANAGER
PERRY OH 44081

144101004553 1 99999
CLEVELAND ELEC ILLUMINATING CO
SYSTEMS ENGINEERING & CONSTR
D R DAVIDSON
VICE PRESIDENT-ENGINEERING
PO BOX 5000
CLEVELAND OH 44101

244101000067 1 99999
CLEVELAND ELEC ILLUMINATING CO
DONALD H MAUSER
ESQUIRE
PO BOX 5000
CLEVELAND OH 44101

160559064455 1 99999
CLOW CORP
ENGINEERED PRODUCTS
R L SESHAGIRI
QA MANAGER
40 CHESTNUT AVE
WESTMONT IL 60559

119808054636 1 99999
COALITION FOR NUC PWR PLT POST
FRIEDA BERRYHILL
CHAIRPERSON
2610 GRENDOM DR
WILMINGTON DE 19808

263130006109 1 99999
COALITION FOR THE ENVIRONMENT
ST LOUIS REGION
DAN I BOLEF
PRESIDENT-BD OF DIRECTORS
6267 DELMAR BLVD
UNIVERSITY CITY MO 63130

180220004291 1 99999
COLORADO DEPT OF HEALTH
RADIATION CONTROL DIV
ALBERT J HAZLE
DIRECTOR
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DENVER CO 80220

153511051945 1 99999
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WESLEY A BRILL
701 LAWTON AVE
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130117091443 1 99999
COLT INDUSTRIES
JACK L WEHRLE
QA MANAGER
141 HAMMONDS ST
CARROLLTON GA 30117

106095038343 1 99999
COMBUSTION ENGINEERING INC
P&G LIBRARY
LIBRARIAN-RED DOCUMENTS
1000 PROSPECT HILL RD
6435-405
WINDSOR CT 06095

120814076586 1 99999
COMBUSTION ENGINEERING INC
C-E POWER SYSTEMS
CHARLES A BRINKMAN
7910 WOODMONT AVE
SUITE 1310
BETHESDA MD 20814

106095091444 1 99999
COMBUSTION ENGINEERING INC
CLIFF HOFFMAN
QA DIRECTOR
1000 PROSPECT HILL RD

L BECK
SUPERVISOR-LICENSING & FUELS
10 CENTER RD
PERRY OH 44081

244101001520 1 99999
CLEVELAND ELEC ILLUMINATING CO
MURRAY R EDELMAN
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PO BOX 5000
CLEVELAND OH 44101

144081082142 1 99999
CLEVELAND ELEC ILLUMINATING CO
PERRY NPS
J WALDRON
PLANT MANAGER
10 CENTER RD
PERRY OH 44081

18BRAZ1008064 1 99999
CNEN
INTERNATIONAL AFFAIRS OFFICE
PAULO D PEREIRA
ADMINISTRATOR
RUA GENERAL SEVERIANO 90
RIO DE JANEIRO 20000 BRAZIL

197204065572 1 99999
COALITION FOR SAFE POWER
EUGENE ROSOLIE
410 GOV BLDG 408 SW 2ND AVE
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190701091442 1 99999
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130117052974 1 99999
COLT INDUSTRIES
TRENT TUBE DIV OF CRUCIBLE INC
141 HAMMONDS STREET
CARROLLTON GA 30117

153511052973 1 99999
COLT INDUSTRIES
FAIRBANK MORSE ENGINE DIV
EDWARD L FAY
MANAGER-QA
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BELOIT WI 53511

103801052976 1 99999
COMBUSTION ENGINEERING INC
C-E AVERY DIVISION
OLD DOVER ROAD
NEWINGTON NH 03801

174156091425 1 99999
COMBUSTION ENGINEERING INC
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QA MANAGER
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POB 556
TULSA OK 74156

206095006333 1 99999
COMBUSTION ENGINEERING INC
W C HALL
1000 PROSPECT HILL ROAD
WINDSOR CT 06095

106095091035 1 99999
COMBUSTION ENGINEERING INC
W P WIPLACHER
1000 PROSPECT HILL RD

QA DIRECTOR
1000 PROSPECT HILL DR
WINDSOR CT 06095

106095091445 1 99999
COMBUSTION ENGINEERING INC
C-E POWER SYSTEMS
G R MURA
QA ENGINEER
1000 PROSPECT HILL DR
WINDSOR CT 06095

106905008721 1 99999
COMBUSTION ENGINEERING INC
P L MCGILL
VICE PRESIDENT
1000 PROSPECT HILL ROAD
WINDSOR CT 06905

120814090006 99999
COMBUSTION ENGINEERING INC
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BETHESDA MD 20814

137402052975 1 99999
COMBUSTION ENGINEERING INC
W A STONE
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911 W MAIN ST
CHATTANOOGA TN 37402

206095001299 1 99999
COMBUSTION ENGINEERING INC
CE POWER SYSTEMS
J W VEIRS
1000 PROSPECT HILL ROAD
WINDSOR CT 06095

1MEXIC064478 1 99999
COMISION FEDERAL ELECTRICIDAD
APDO POSTAL NO 5-214
MEXICO 5-DF MEXICO

1FRANC006953 1 99999
COMITE INTERMINISTERIELLE DE
LA SECURITE NUCLEAIRE
JEAN SERVANT
ADMINISTRATOR
27 RUE OUDINOT
75700 PARIS FRANCE

149201029240 1 99999
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POWER DIVISION
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SR REG CONSULTANT
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JACKSON MI 49201

160407080565 1 99999
COMMONWEALTH EDISON CO
BRAIDWOOD 1 NPS
PLANT MANAGER
BRACEVILLE IL 60407

161010080540 1 99999
COMMONWEALTH EDISON CO
BYRON 1 NPS
PLANT MANAGER
4450 NORTH GERMAN CHURCH RD
BYRON IL 61010

160450080547 1 99999
COMMONWEALTH EDISON CO
DRESDEN 1 NPS
PLANT MANAGER

1000 PROSPECT HILL RD
9457-404
WINDSOR CT 06095

206095001440 1 99999
COMBUSTION ENGINEERING INC
R C JACQUES
1000 PROSPECT HILL RD
9456-408
WINDSOR CT 06095

206095005873 1 99999
COMBUSTION ENGINEERING INC
R R MILLS
1000 PROSPECT HILL RD
9456-406
WINDSOR CT 06095

106095026584 1 99999
COMBUSTION ENGINEERING INC
A E SCHERER
DIRECTOR-NUCLEAR LICENSING
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WINDSOR CT 06095

106095091448 1 99999
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M R THOMAS
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WINDSOR CT 06095

103801091446 1 99999
COMBUSTION ENGINEERING INC
C-E AVERY DIV
C E WHITE
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NEWINGTON NH 03801

1MEXIC064504 1 99999
COMISION NACIONAL SEGURIDAD
NUCLEAR Y SALVAGUARDIAS
INSURGENTES SUR NO 1806
MEXICO DF 01030 MEXICO

102108066521 1 99999
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160690055268 1 99999
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160407080566 1 99999
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161010080561 1 99999
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160450080535 1 99999
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