

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

June 26, 1984

IE INFORMATION NOTICE NO. 84-51: INDEPENDENT VERIFICATION

Addressees:

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

Purpose:

There has been a continuing incidence of personnel errors or procedural errors that have resulted in inadvertent reactor trips and safety-related equipment inadvertently placed in an inoperable status. These events are considered by the NRC to be avoidable contributors to risk to the public health and safety.

This notice is being issued to emphasize the importance of independent verification to reduce the rate of occurrence of such errors.

It is expected that recipients will review the information in this notice for applicability to their facilities and consider actions, if appropriate, to preclude similar problems occurring at their facilities.

Description of Circumstances:

A number of significant events have occurred in which personnel error by plant staff has contributed to the severity of an event. Perhaps the most notorious example is the mispositioned auxiliary feedwater valves at Three Mile Island Unit 2 (TMI-2).

As a result of the TMI-2 accident, the NRC developed a comprehensive plan to improve safety at power reactor facilities; this plan was published in November 1980 as NUREG-0737.

Task Action Plan, Item I.C.6 (NUREG-0737), required that licensees review their procedures and revise them, if necessary, to require independent verification of proper actions when releasing active systems and equipment for maintenance, surveillance testing or calibration, and subsequent return-to-service. Excerpts from the detailed requirements listed in NUREG-0737 are presented in Attachment 1 to this notice.

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Personnel errors causing improper system operation have continued to occur at an excessive rate during 1982, 1983, and thus far in 1984. Systems are still being incorrectly removed from service or returned to service when they are not operable. Some examples for which the NRC has taken elevated enforcement actions are presented in Attachment 2. Other examples, dealing with containment spray systems, are discussed in Information Notice 84-39, "Inadvertent Isolation of Containment Spray Systems." In addition, Information Notice 84-37, "Use of Lifted Leads and Jumpers During Maintenance or Surveillance Testing," lists other recent examples of problems with improper use of jumpers and lifted electric leads.

Inspection activities and associated discussions with licensees disclose that independent verification programs and related implementation procedures and practices have been found lacking to the extent that substantial improvements are either being planned or are in progress at certain plants. Improvements have been found to be necessary in the definitions being used for the terms "independent verification" and "qualified personnel," the scope of independent inspection activities, the use of working procedures during the independent verification process, the clarity of language used in procedures to clearly specify exactly what personnel must complete before signing off a section of the procedure, and the importance that management places on independent verification activities. In some cases, the breadth of these weaknesses may call into question the adequacy of management controls to ensure that its directives associated with independent verification are being observed.

Some utilities seem to have programs that are successful in avoiding the types of problems illustrated in Attachment 2. Such utilities appear to have developed, verified, and used explicit procedures and checklists for all recurring operations. Personnel have been trained in what to do, how to do it, and why it must be done that way.

Functional tests used in lieu of independent verification, should be examined to ensure they test the entire portion of the system affected by the previous actions. For example, performing a normal surveillance by running a pump on recirculation may not verify correct alignment of all valves in the system.

Independent verification should be independent with respect to personnel, i.e., two appropriately qualified individuals, operating independently, should verify that equipment has been properly returned to service. Both verifications are to be implemented by procedure and documented by the initials or signature of the two individuals performing the alignment and verification.

In certain instances it may be possible to accomplish one verification from observing control room instruments, annunciators, valve position indicators, etc. This is acceptable as long as the control room indication is a positive one and is directly observed and documented.

EXCERPTS FROM ACTION ITEM
I.C.6 OF NUREG-0737

I.C.6 GUIDANCE ON PROCEDURES FOR VERIFYING CORRECT PERFORMANCE OF
OPERATING ACTIVITIES

Position

It is required (from NUREG-0660) that licensees' procedures be reviewed and revised, as necessary, to assure that an effective system of verifying the correct performance of operating activities is provided as a means of reducing human errors and improving the quality of normal operations. This will reduce the frequency of occurrence of situations that could result in or contribute to accidents.

Clarification

Item I.C.6 . . . and Recommendation 5 of NUREG-0585 propose requiring that licensees' procedures be reviewed and revised, as necessary, to assure that an effective system of verifying the correct performance of operating activities is provided. An acceptable program for verification of operating activities is described below.

The American Nuclear Society has prepared a draft revision to ANSI Standard N18.7-1972 (ANS 3.2) . . . A second revision . . . to Regulatory Guide 1.33 . . . endorses the latest draft revision to ANS 3.2 subject to the following supplemental provisions:

1. Applicability of the guidance of Section 5.2.6 should be extended to cover surveillance testing in addition to maintenance.
2. In lieu of any designated senior reactor operator (SRO), the authority to release systems and equipment for maintenance or surveillance testing or return-to-service may be delegated to an on-shift SRO, provided provisions are made to ensure that the shift supervisor is kept fully informed of system status.
3. Except in cases of significant radiation exposure, a second qualified person should verify correct implementation of equipment control measures such as tagging of equipment.
4. Equipment control procedures should include assurance that control-room operators are informed of changes in equipment status and the effects of such changes.

5. For the return-to-service of equipment important to safety,* a second qualified operator should verify proper systems alignment unless functional testing can be performed without compromising plant safety, and can prove that all equipment, valves, and switches involved in the activity are *correctly aligned.

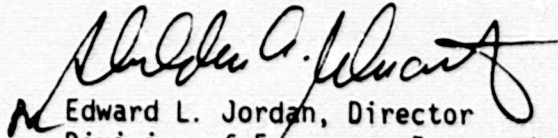
*The NRC staff is developing guidance to clarify the scope of the term "important to safety" and the requirements applicable to this class of equipment.

Clearly, all components that provide a safety function should be independently verified when alignment changes have been made in a mode where the system is required. Similarly, the alignments of safety systems and individual components relating to safety, made in preparation for entering a mode in which the systems or components are required, must be independently verified. Following a plant outage where maintenance was performed, all safety system lineups should be performed using independent verification before entering the mode where that equipment is required to be operable.

Independent verification is vital to the safe operation of nuclear facilities. The concern that independent verification is too time consuming and shows a lack of confidence in operators is shortsighted. Independent verification is simply a recognition that even the best operators will make an occasional error. Where the risks and consequences of such an error are extreme, a second check is required. This is an important and potentially beneficial requirement resulting from the TMI Action Plan. Many escalated enforcement actions since TMI involve events that could have been prevented had the licensee adequately applied independent verification.

No written response to this notice is required; however, it is suggested that licensees and holders of Construction Permits review this information for applicability at their facilities.

If you have any questions about this matter, please contact the Regional Administrator of the appropriate NRC regional office or the Technical Contact listed in this notice.


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

Technical Contact: J. B. Henderson, IE
(301) 492-9654

Attachments:

1. Excerpts from NUREG 0737 Item I.C.6
2. Examples of Escalated Enforcement Actions
3. List of Recently Issued Information Notices

EXAMPLES OF PERSONNEL ERRORS WHICH RESULTED
IN ESCALATED ENFORCEMENT ACTIONS

At Dresden Unit 2, from August 24 to October 2, 1982, the licensee failed to close vent and isolation valves on a torus sightglass, thereby violating primary containment integrity. During this period, except for the days of September 24 through 30, 1982, primary containment integrity was required. After this condition was discovered by the operating staff, reporting requirements were not adequately followed.

At Indian Point Unit 2, with the reactor critical, the boron injection tank (BIT) was not operated in accordance with the station's procedures for periods of time on February 2, 3, 4, 24, 25, 27, 28 and March 1, 2, 3, 4, 5, 1982, so that

1. Required BIT overpressure was not maintained and pressure control valve operability was not verified for the time periods noted.
2. Required overpressure was not verified and adjusted to normal on receipt of a low pressure alarm.
3. Operators and supervisors failed to identify abnormal trends in logged data and failed to take appropriate corrective action.
4. Required overpressure was reduced to zero on February 2, 1982, in accordance with a maintenance work request issued on January 24, 1982, without adequately determining the effect on plant operation.

At Oyster Creek the reactor was operated in violation of technical specification limiting conditions for operation during the period from May 14, 1980 to February 26, 1982. A particular valve serves two functions, containment isolation and vacuum breaking (between the reactor building and the suppression pool). This valve was assembled incorrectly, so that it failed to properly perform either of its dual design functions. Inadequate maintenance procedures for reassembly and test of the valve caused the violation in the first place. Inadequate periodic functional test procedures allowed the condition to exist undetected for over twenty one months.

At Rancho Seco, two significant violations of regulatory requirements were identified. These violations demonstrated a lack of control of licensed activities and the lack of continuous awareness of the status of safety-related components by shift supervisors and operators. As a result, the plant was operated without the control room operators being aware that one of the two diesel generators was inoperable for 29 hours and that one of the two high-pressure injection pumps was inoperable for 66 hours. Auxiliary operators had

been recording information on the pertinent log sheet regarding these two components without assuring accuracy. Recording of inaccurate information in plant records appears to have been a major contributor to continued plant operation with the two safety-related components, mentioned above, out of service. In addition, operating personnel did not respond properly to the diesel generator trouble alarm. Inoperability of the diesel generator for 29 hours, undetected, occurred on February 10 and 11, 1982. Inoperability of the high pressure injection pump existed, undetected, from February 26 through March 1, 1982.

At Arkansas Nuclear One, from December 30, 1982, to September 26, 1983, Unit 2 was in violation of its Technical Specifications, because three successive quarterly tests for station battery operability had disclosed uncorrected violations of parameter limits. The licensee attributed the basic cause of the problem to inadequate procedures. The procedures included the limiting parameter values, but did not identify them as accept/reject values. Further, the procedures were vague about what was required of the tester if limits were exceeded.

At Turkey Point, there are three steam turbine-driven auxiliary feedwater pumps. Each is supplied with steam from either Units 3 or 4 and can deliver feedwater to either Units 3 or 4. Unit 3 was operating at full power, Unit 4 was shut down. New, redundant steam supply lines were being installed for each feedwater pump turbine. Pump A was out of service for maintenance; pumps B and C were required to be operable in support of Unit 3.

On April 14, 1983 an operator was issued two clearance tags and was instructed to verify that valves in the new redundant steam lines were shut and to hang the clearance tags on the valves. Five days later, the same operator realized and reported that the clearance tags were on the older steam supply lines to the B and C pump turbines, and those valves were closed, rendering both of these auxiliary feedwater pumps inoperable.

LIST OF RECENTLY ISSUED
IE INFORMATION NOTICES

Information Notice No.	Subject	Date of Issue	Issued to
84-50	Clarification of Scope of Quality Assurance Programs Pursuant to 10 CFR 50 Appendix B	06/21/84	All power reactor facilities holding an OL or CP
84-49	Intergranular Stress Corro- sion Cracking Leading to Steam Generator Tube Failure	06/18/84	All power reactor facilities holding an OL or CP
84-48	Failures of Rockwell Inter- national Globe Valves	06/18/84	All power reactor facilities holding an OL or CP
84-47	Environmental Qualification Tests of Electrical Terminal Blocks	06/15/84	All power reactor facilities holding an OL or CP.
84-46	Circuit Breaker Position Verification	06/13/84	All power reactor facilities holding an OL or CP.
84-45	Reversed Differential Pressure Instrument Sensing Lines	06/11/84	All power reactor facilities holding an OL or CP
84-44	Environmental Qualification Testing of Rockbestos Cables	06/08/84	All power reactor facilities holding an OL or CP
84-43	Storage and Handling of Ophthalmic Beta Radiation Applicators	06/07/84	All medical licensees
84-42	Equipment Availability for Conditions During Outages Not Covered by Technical Specifications	06/05/84	All power reactor facilities holding an OL or CP
84-41	IGSCC in BWR Plants	06/01/84	All BWR reactor facilities holding an OL or CP

OL = Operating License
CP = Construction Permit

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[illegible]

*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314
*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314
*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314
*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314
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*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314
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*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314
*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314
*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314
*L	START	JOB	5336	JLJ109G	0002	0001	BETHJES2	NRC109H	ROOM	314

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GROUP # 01 TYPE LABELS - 3
NRC: CNT = 144 BULK = 255
99999

SELECTION-00000010 SETS - 02
TOT: CNT = 2492 BULK = 2659

WON N113
DATE COMP

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GROUP # 01 TYPE LABELS - 3
NRC: CNT = 144 BULK = 255
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NRC: CNT = 144 BULK = 255
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SELECTION-00000010 SETS - 02
TOT: CNT = 2492 BULK = 2659

WO# N113
DATE COMP

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
MAYOR OF LACEY TOWNSHIP
818 LACEY RD
FORKED RIVER NJ 08731

119320054576 1 99999
MARJORIE M AAMCDT
RD 5
COATESVILLE PA 19320

102109065679 1 99999
WILLIAM S ABBOTT
50 CONGRESS ST
SUITE 925
BOSTON MA 02109

111581092043 1 99999
S ANDIMAN
20 KALMIA LA
VALLEY STREAM NY 11581

193401094148 1 99999
ELIZABETH APFELBERG
1415 COZADERO
SAN LUIS OBISPO CA 93401

178284091690 1 99999
ROGER BESSEY
6220 CULEBRA RD
SAN ANTONIO TX 78284

149720078822 1 99999
JOANNE BIER
204 CLINTON ST
CHARLEVOIX MI 49720

265061006491 1 99999
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RR #1 BOX 243
MORRISON MO 65061

111786066814 1 99999
RONALD BGMER
PO BOX 693
SHORE HAM NY 11786

177039094029 1 99999
WILLIAM A BRANT
13321 CHRISMAN
HOUSTON TX 77039

129075023172 1 99999
B A BURSEY
RTE 1 PO BOX 92-C
LITTLE MOUNTAIN SC 29075

117057094199 1 99999
TMI-2 LICENSING
JIM J BYRNE
PO BOX 480
MIDDLETOWN PA 17057

208080000246 1 99999
DAVID A CACCIA
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SEWELL NJ 08080

103801093213 1 99999
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127514094156 1
PHYLLIS LOTCHIN
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CHAPEL HILL

99999

NC 27514

143229093934 1 99999
D J MCDONALD
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153711092787 1
ASLBP
GARY MILHOLLIN
1815 JEFFERSON ST
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WI 53711

101730005908 1 99999
DADE W MOELLER
27 WILDWOOD DR
ACRS
BEDFORD

MA 01730

185283100640 1
JILL MORRISON
522 E COLGATE
TEMPE

99999

AZ 85283

133313091361 1 99999
EVERETT MOTT
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194602064669 1
B E NYE
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249664005389 1 99999
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170808055135 1
ROY A PARKER
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227605007047 1 99999
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190404091360 1
R PEREZ
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103051064402 1 99999
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119382100821 1
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99999

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170806091020 1
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712 CAROL MARIE DR
BATON ROUGE

99999

LA 70806

140475091495 1 99999
EARL PRICE
RTE 876 RICHMOND-BYPASS
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103874093222 1
DIANA P RANDALL
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99999

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154281094044 1 99999
GLENN A REED
163 PARK RD
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190224091382 1 99999
ASSOC PIPING & ENGINEERING CO
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107012091384 1 99999
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TAIPEI 107 TAIWAN

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107932079111 1 99999
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192087093944 3 99999
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ANAHEIM HILLS CA 92087

103833057219 1 99999
JUNE M DAIGNEAULT
14 WOODLAWN CIRCLE
EXETER NH 03833

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ANDREW T DALTON
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RM 205
TULSA OK 74112

147250030048 1 99999
THOMAS M DATILO
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MADISON IN 47250

190803093935 1 99999
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177042055303 1
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WKM VALVE DIVISION
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MGR-RELIABILITY&PRODUCT ASSR
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TX 77459

177001053152 1
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115108091238 1
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PA 15108

130328093994 1
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122102092350 1
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172203063658 1
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219002006465 1
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AL 36420

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PLANT MANAGER
COLUMBIA

AL 36319

136319080842 1
ALABAMA POWER CO
FARLEY 2 NPS
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135291006787 1
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198124091367 1
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STAINLESS STEEL DIV
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136331091368 1
ALFAB INC
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AL 36331

107006079661 1
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117405091370 1
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VALVE DIV
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PA 17405

117405091371 1
ALLIS CHALMERS CORP
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POB M93
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PA 17405

153024052919 1
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100 HICKORY STREET
GRAFTON

99999
WI 53024

153024091373 1
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102862091376 1
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106032031448 2
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99999
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143537091377 1
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MAUMEE

99999
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119020091378 1
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SCHUTTE & KOERTING DIV
THOMAS BAILEY
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99999
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192021053502 1
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WENDELL J PEET
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99999
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CONTINENTAL WIRE AND CABLE COR
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117701091380 1 99999
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177401081434 1 99999
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106877031780 1 99999
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11ITALY081551 1 99999
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195030066339 1 99999
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117851091381 1 99999
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160439002189 1 99999
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M I HARLACHER
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107012091384 1 99999
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106001093754 1 99999
ATCOR ENGINEERING SYSTEMS INC
CHEM NUCLEAR DIV
135 DARLING DR
AVON CT 06001

130076094472 1 99999
ATLAN-TECH INC
JOHN G QUILLIN
PO BOX 767577
ROSWELL GA 30076

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
CANU OPERATIONS
LIBRARY
1155 RUE METCALFE
2ND FLOOR
MONTREAL QUEBEC CANADA

120814040062 1 99999
ATOMIC INDUSTRIAL FORUM
TECHNICAL DEPT
PATRICK C HIGGINS
MANAGER
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

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

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-BW022B
PO BOX 271
BARBERTON OH 44203

124505006467 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
MANAGER-PRODUCT ASSURANCE ENGR
29801 EUCLID AVE
208
WICKLIFFE OH 44092

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

162249052949 1 99999
B LINE SYSTEMS INC
DONALD MATLOCK
QA MANAGER
509 WEST MONROE STREET
HIGHLAND IL 62249

124505001577 1 99999
BABCOCK & WILCOX CO
RESEARCH & DEVELOPMENT DIV
LICENSE ADMINISTRATOR
PO BOX 1260
LYNCHBURG VA 24505

120814001431 1 99999
BABCOCK & WILCOX CO
POWER GENERATION DIV
R B BORSUM
7910 WOODMONT AVE
SUITE 220
BETHESDA MD 20814

144601081396 1 99999
BABCOCK & WILCOX CO
ALLIANCE RESEARCH CTR
E H FISHER
1562 BEESON 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

144203091711 1 99999
BABCOCK & WILCOX CO
ROD NOWLES
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
MELBERT D SCHARTZ
ONE SHELL PLAZA
HOUSTON TX 77002

235201005024 1 99999
BALCH BINGHAM BAKER & HATHORN
ROBERT A BUETTNER
PO BOX 306
BIRMINGHAM AL 35201

221203005869 1 99999
BALTIMORE GAS & ELECTRIC CO
D A BRUNE
GENERAL COUNSEL
PO BOX 1475
BALTIMORE MD 21203

120657063178 1 99999
BALTIMORE GAS & ELECTRIC CO
TRAINING & TECHNICAL SERVICES
R E DENTON
GENERAL SUPERVISOR
CALVERT CLIFFS NPS
LUSBY MD 20657

221203005875 1 99999
BALTIMORE GAS & ELECTRIC CO
QUALITY ASSURANCE DEPT
R M DOUGLASS
FORT SMALLWOOD ROAD COMPLEX
BOX 1475
BALTIMORE MD 21203

221203005870 1 99999
BALTIMORE GAS & ELECTRIC CO
R C OLSON
ROOM 922 GCE BUILDING
BOX 1475
BALTIMORE MD 21203

120657002981 1 99999
BALTIMORE GAS & ELECTRIC CO
CALVERT CLIFFS NUCLEAR PLANT
L B RUSSELL
PLANT SUPERINTENDENT
LUSBY MD 20657

121203079435 3 99999
BALTIMORE GAS & ELECTRIC CO
J A TIERNAN
MANAGER-NUCLEAR POWER
PO BOX 1475 CHARLES CENTER
LUSBY MD 21203

191749091393 1 99999
BARTON INSTRUMENTS
JEAN DWYER
QA MANAGER
900 S TURNBULL CANYON RD
CITY OF INDUSTRY CA 91749

143201102094 1 99999
BATTELLE COLUMBUS LAB
QUALITY ASSURANCE DEPT
CLARENCE WILLIAMS
MANAGER
505 KING AVE
COLUMBUS OH 43201

199352006329 1 99999
BATTELLE PACIFIC NORTHWEST LAB
SPENCER H BUSH
PO BOX 999
RICHLAND WA 99352

137830094196 1 99999
BECHTEL NATIONAL INC
VAL BOUCHARD
PO BOX 350
OAKRIDGE TN 37830

121203001381 1 99999
BALTIMORE GAS & ELECTRIC CO
GENERAL SERVICES
NORMAN BOWMAKER
VICE PRESIDENT
PC BOX 1475
BALTIMORE MD 21203

120657006431 1 99999
BALTIMORE GAS & ELECTRIC CO
QUALITY ASSURANCE DEPARTMENT
S M DAVIS
SUPERVISOR
CLVET CLIFFS NUC PWR PLANT
LUSBY MD 20657

121203081568 1 99999
BALTIMORE GAS & ELECTRIC CO
SECURITY SERVICES
R C DERNOGA
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PO BOX 1475
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121203006139 1 99999
BALTIMORE GAS & ELECTRIC CO
SUPPLY
A E LUNDVALL
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BALTIMORE MD 21203

120657094453 1 99999
BALTIMORE GAS & ELECTRIC CO
CALVERT CLIFFS NUCLEAR PLANT
JOHN ROSS
SECURITY SCREENING UNIT
LUSBY MD 20657

220657007021 1 99999
BALTIMORE GAS & ELECTRIC CO
CALVERT CLIFFS NPS
J A TIERNAN
MANAGER-NUCLEAR POWER DEPT
MARYLAND RTES 2 & 4
LUSBY MD 20657

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

191749052940 1 99999
BARTON INSTRUMENTS
UNIT OF ITT
G R WELT
QA DIRECTOR
900 SOUTH TURNBULL CANYON RD
CITY OF INDUSTRY CA 91749

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

143201064637 1 99999
BATTELLE PROJECT MANAGEMENT
PROJECT REQUEST DIV
505 KING AVE
COLUMBUS OH 43201

194119030848 1 99999
BECHTEL POWER CORP
CHIEF LIBRARIAN
PO BOX 3965
SAN FRANCISCO CA 94119

BECHTEL POWER CORP
PROJECT MANAGER
50 BEALE STREET PO BOX 3965
SAN FRANCISCO CA 94119

BECHTEL POWER CORP
CENTRAL LIBRARY
LIBRARIAN
777 E EISENHOWER PKWY
ANN ARBOR MI 48104

177252006455 3 99999
BECHTEL POWER CORP
LIBRARY
JEAN ADAMS
PO BOX 2166
SL-C519
HOUSTON TX 77252

294119006280 1 99999
BECHTEL POWER CORP
J M ASHLEY
PO BOX 3965
SAN FRANCISCO CA 94119

194119064588 1 99999
BECHTEL POWER CORP
M H BRUINS
STAFF ASST ADMIN SVCS
PO BOX 3965
SAN FRANCISCO CA 94119

120877026694 1 99999
BECHTEL POWER CORP
NANCY G CHAPMAN
15740 SHADY GROVE RD
GAITHERSBURG MD 20877

190650082510 1 99999
BECHTEL POWER CORP
DOCUMENT PROCESSING LAPD
EDNA DOMKOWSKI
12400 E IMPERIAL HWY
BLDG 44
NORWALK CA 90650

148106052944 1 99999
BECHTEL POWER CORP
J I DOTSON
PROJECT MANAGER
POST OFFICE BOX 1000
ANN ARBOR MI 48106

148016091396 1 99999
BECHTEL POWER CORP
ANN ARBOR POWER DIV
W D GREENWELL
DIV QA MANAGER
PO BOX 1000
ANN ARBOR MI 48016

190060001126 1 99999
BECHTEL POWER CORP
LOS ANGELES POWER DIVISION
JEAN GREGORY
LIBRARIAN
TERMINAL ANNEX PO BOX 60860
LOS ANGELES CA 90060

277001007067 1 99999
BECHTEL POWER CORP
D W HALLIGAN
PO BOX 2166
HOUSTON TX 77001

120877064676 1 99999
BECHTEL POWER CORP
F P JONES
SUPERVISOR REC MGMT
15740 SHADY GROVE ROAD
GAITHERSBURG MD 20877

120877006748 1 99999
BECHTEL POWER CORP
QA DEPT
D C KANSAL
15740 SHADY GROVE ROAD
1A1
GAITHERSBURG MD 20877

194119064719 1 99999
BECHTEL POWER CORP
D H LANIER
PROJECT ADMINISTRATOR-SUPP GRP
PO BOX 3965
SAN FRANCISCO CA 94119

190650064620 1 99999
BECHTEL POWER CORP
C Y LOPINSKY
STAFF ENGINEER
12400 E IMPERIAL HWY
NORWALK CA 90650

290060007127 1 99999
BECHTEL POWER CORP
H F MCCLUSKEY
PO BOX 60860 TERMINAL ANNEX
LOS ANGELES CA 90060

190650091921 1 99999
BECHTEL POWER CORP
LIBRARY
DEE MORRIS
12400 E IMPERIAL HWY
NORWALK CA 90650

194119091397 1 99999
BECHTEL POWER CORP
SF POWER DIV
EUGENE NELSON
QA MANAGER
PO BOX 3965
SAN FRANCISCO CA 94119

190060091395 1 99999
BECHTEL POWER CORP
LA POWER DIV
R L PATTERSON
DIV QA MANAGER
PO BOX 60860 TERMINAL ANNEX
LOS ANGELES CA 90060

294119006444 1 99999
BECHTEL POWER CORP
E B POSER
PROJECT ENGINEER
PO BOX 3965
SAN FRANCISCO CA 94119

190060000909 1 99999
BECHTEL POWER CORP
LOS ANGELES POWER DIV
J L SHAPIRO
CHIEF NUCLEAR & ENVIR ENGR
PO BOX 60860 TERMINAL ANNEX
LOS ANGELES CA 90060

194119006104 1 99999
BECHTEL POWER CORP
S F POWER DIVISION
S W SHOR
PO BOX 3965
MET 35/85
SAN FRANCISCO CA 94119

190850084648 1 99999
BECHTEL POWER CORP
T SMITH
PROJECT ADMINISTRATOR
12400 E IMPERIAL HWY
NORWALK CA 90650

220877005872 1 99999
BECHTEL POWER CORP
J C VENTURA
CALVERT CLIFFS PROJECT ENGR
15740 SHADY GROVE RD
GAITHERSBURG MD 20877

148106029704 1 99999
BECHTEL POWER CORP
ANN ARBOR POWER
HOWARD W WAHL
VICE PRESIDENT & GENL MGR
PO BOX 1000
ANN ARBOR MI 48106

129360080092 1 99999
BENJAMIN F SHAW CO
LEONARD P SMEAL
RADIATION PROTECTION OFFICER
PO BOX 169
LAURENS SC 29360

103246053738 1 99999
BERGEN PATERSON PIPESUPPORT CO
HAROLD NOREEN
VICE PRES & QA DIRECTOR
34 MOULTON ST
LACONIA NH 03246

218016001445 1 99999
BETHLEHEM STEEL CORP
MEREDITH HEMPHILL
ASSISTANT GENERAL COUNSEL
MARTIN TOWER 2010
BETHLEHEM PA 18016

1INDIA091242 1 99999
BHABHA ATOMIC RESEARCH CENTRE
DAE SAFETY REVIEW CMTE
P ABRAHAM
ADMINISTRATOR
TROMBAY
BOMBAY 400 085 INDIA

249720005383 1 99999
BIG ROCK POINT NUC POWER PLANT
PLANT SUPERINTENDENT
CHARLEVOIX MI 49720

120036081372 1 99999
BISHOP LIBERMAN COOK ET AL
JOSEPH B KNOTTS
1200 17TH ST NW
SUITE 700
WASHINGTON DC 20036

210004005446 1 99999
BISHOP LIBERMAN COOK ET AL
J B LIEBERMAN
26 BROADWAY
NEW YORK NY 10004

120036100707 1 99999
BISHOP LIBERMAN COOK ET AL
NICHOLAS S REYNOLDS
1200 17TH ST NW
SUITE 700
WASHINGTON DC 20036

220877001244 1 99999
BECHTEL POWER CORP
GRAND GULF NPS
R TRICKOVIC
PROJECT ENGINEER
GAITHERSBURG MD 20877

194119091394 1 99999
BECHTEL POWER CORP
J B VIOLETTE
QA MANAGER-TPO
50 BEAL ST
SAN FRANCISCO CA 94119

115534091952 1 99999
BEDFORD COUNTY COLLECT ED CTR
PO BOX 204
BUFFALO MILLS PA 15534

194526052095 1 99999
BERGEN PATERSON PIPESUPPORT CO
WILLIAM HOWARD
WEST COAST SALES MANAGER
710 EL CAPITAN DR
DANVILLE CA 94526

103246091787 1 99999
BERGEN PATERSON PIPESUPPORT CO
ROBERT STEPHEN
QA DIRECTOR
34 MOULTON ST
LAKE PORT NH 03246

177484091399 1 99999
BETTIS ROBOT ARM
A LOCASCIO
QA MANAGER
1870 G H CIRCLE PO BOX 508
WALLER TX 77484

1INDIA003464 1 99999
BHABHA ATOMIC RESEARCH CENTRE
LIBRARY & INFO SERVICES
M K KELKAR
SCIENTIFIC OFFICER
TROMBAY
BOMBAY 400 085 INDIA

197210052948 1 99999
BINGHAM WILLAMETTE CO
GUY F ATKINSON CO
J A ODOMS
QA ASSISTANT MANAGER
2800 N W FRONT AVENUE
PORTLAND OR 97210

110004054611 1 99999
BISHOP LIBERMAN COOK ET AL
JAMES B LIBERMAN
26 BROADWAY
NEW YORK NY 10004

220036000900 1 99999
BISHOP LIBERMAN COOK ET AL
J M MCGARRY
1200 17TH ST NW
SUITE 700
WASHINGTON DC 20036

102125052954 1 99999
BIW CABLE SYSTEMS INC
E MANCHESTER
PRESIDENT
65 BAY STREET
BOSTON MA 02125

184114079072 1 99999
BLACK & VEATCH
CENTRAL LIBRARY
PO BOX 8405
KANSAS CITY MO 64114

133528004318 1 99999
BLACK & VEATCH
WALTER MITCHELL
PROJECT MANAGER
PC BOX 10
DUNEDIN FL 33528

119468094184 1 99999
BOARD OF SUPV LIMERICK TWSHP
CHAIRMAN
646 WEST RIDGE PIKE
LIMERICK PA 19468

198188091401 1 99999
BOEING CO
BOEING ENGR & CNSTR CO
MAX THOMPSON
QA MANAGER
625 ANDOVER PARK W
TUKWILA WA 98188

197208029759 1 99999
BONNEVILLE POWER ADMIN
PO BOX 3621
PORTLAND OR 97208

1CANAD052964 1 99999
BORG WARNER CORP
BYRON JACKSON DIV
JACK ANDERSON
SUPVR-R&M ENGINEERING
PO BOX 180 STATION H - TORONTO
ONTARIO M4C 5J1 CANADA

191409053079 1 99999
BORG WARNER CORP
NUCLEAR VALVE DIVISION
PETER L MILINAZZO
MANAGER QUALITY ASSURANCE
7500 TYRONE AVENUE
VAN NUYS CA 91409

102360100710 1 99999
BOSTON EDISON CO
PILGRIM 1 NPS
PLANT MANAGER
PLYMOUTH MA 02360

102184006262 1 99999
BOSTON EDISON CO
NUCLEAR OPERATIONS
JOHN F FRASER
25 BRAINTREE HILL PARK
P 260
BRAINTREE MA 02184

102360081566 1 99999
BOSTON EDISON CO
C J MATHIS
STATION MANAGER
RFD 1 ROCKY HILL RD
PLYMOUTH MA 02360

102125091403 1 99999
BOSTON INSUL WIRE CABLE SYSTEM
AL SUTKUS
QA MANAGER
65 BAY ST UPHAMS CORNER PS
BOSTON MA 02125

184114091400 1 99999
BLACK & VEATCH
R E BLAISDELL
QA MANAGER
PO BOX 8405
KANSAS CITY MO 64114

1WGERM005318 1 99999
BMFT
REACTOR SAFETY RESEARCH
HEINZ SEIPEL
ADMINISTRATOR
PCSTFACH 120124
5300 BONN 2 WGERMANY

198124052953 1 99999
BOEING CO
ENGR & CONSTRUCTION
D I HULBERT
PO BOX 3707
MS 9A-44
SEATTLE WA 98124

122180064704 1 99999
BOEING COMPUTER SERVICES
ENERGY TECH APPL
S G LINEKER
7980 GALLOWES CT
CV-31
VIENNA VA 22180

1CANAD091422 1 99999
BORG WARNER CORP
BYRON JACKSON DIV
PO BOX 180 STATION H
TORONTO 13 ONTARIO CANADA

190749078990 1 99999
BORG WARNER CORP
BYRON JACKSON ESDC
MERRITT HUGINS
TECH ANALYSIS CENTER
M/S 79
CARSON CA 90749

190058052965 1 99999
BORG WARNER CORP
BYRON JACKSON PUMP DIV
R L ROMERO
2300 EAST VERNON AVENUE
06
LOS ANGELES CA 90058

102199064706 1 99999
BOSTON EDISON CO
W L ANDERSON
NUCLEAR ENGINEER
800 BOLYSTON STREET
BOSTON MA 02199

102199064607 1 99999
BOSTON EDISON CO
B A GORDON
ENGR PERMANENT FILE SYS
800 BOYLSTON STREET
BOSTON MA 02199

102184029316 1 99999
BOSTON EDISON CO
NUCLEAR
A V MORISI
MANAGER
25 BRAINTREE HILL PARK
BRAINTREE MA 02184

194601063657 1 99999
BOSTROM-BERGEN METAL PRODUCTS
D RIGGE
QA MANAGER
4700 COLISEUM WAY
OAKLAND CA 94601

102141062220 1 99999
BP TECHNICAL SERVICES
18 HURLEY STREET
CAMBRIDGE MA 02141

106000091198 1 99999
BRAND EXAM SVC & TESTING CO
MICHAEL N MARSH
1420 RENAISSANCE DR
PARK RIDGE IL 60068

106226052955 1 99999
BRAND REX CO
WIRE & CABLE DIVISIONS
P PETRUCHIK
PRESIDENT W & C DIVS
PO BOX 498
WILLIMANTIC CT 06226

106226091411 1 99999
BRAND REX CO
LON B ROBERTS
QA MANAGER
W MAIN STREET & RT 32
WILLIAMANTIC CT 06226

1ITALY091412 1 99999
BREDA-TERMOMECCANICA
D PANZERI
VICE PRESIDENT
VIALE SARCA 336
MILANO ITALY

220036006105 1 99999
BRICH HORTON BITTNER & MONRCE
ERIC A EISEN
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SUITE 1100
WASHINGTON DC 20C36

124203091413 1 99999
BRISTOL STEEL & IRON WORKS
INC PLANT 3
LARKY COLLINS
WASHINGTON CTY IND PARK
POB 471
BRISTOL VA 24203

111973030913 1 99999
BROOKHAVEN NATIONAL LABORATORY
ASSOC UNIVERSITIES INC
ASSISTANT TO THE DIRECTOR
UPTON NY 11973

111973005037 1 99999
BROOKHAVEN NATIONAL LABORATORY
NUCLEAR SAFETY LIBRARY
LIBRARIAN
BLDG 130
UPTON NY 11973

111973066851 1 99999
BROOKHAVEN NATICNAL LABORATORY
REACTOR DIVISION
W J BRYNDA
UPTON
BLDG 703
LONG ISLAND NY 11973

177001091414 1 99999
BROWN & ROOT INC
R COUPLAND
QA DIRECTOR
4100 CLINTON DR
HOUSTON TX 77001

177001064710 1 99999
BROWN & ROOT INC
P H DARLAND
MANAGER RECORDS MGMT DEP
PO BOX 3 01-362
HOUSTON TX 77001

177001064762 1 99999
BROWN & ROOT INC
P JORDAN
PO BOX 3
HOUSTON TX 77001

177001064659 1 99999
BROWN & ROOT INC
RICHARD P NEGRI
ASSISTANT QA MANAGER
PO BOX 3
HOUSTON TX 77001

177001064728 1 99999
BROWN & ROOT INC
J E PADEN
MGR ENG DOCUMENTATION
PO BOX 3 BLDG 41
HCUSTON TX 77001

177001052958 1 99999
BROWN & ROOT INC
POWER
W M RICE
GROUP VICE PRESIDENT
PO BOX 3
HOUSTON TX 77001

119044091417 1 99999
BROWN BOVERI ELECTRIC INC
DISTR APPARATUS DIV
R DICK CONRAD
QA MANAGER
207 WITMER RD
HORSHAM PA 19044

119477053734 1 99999
BROWN BOVERI ELECTRIC INC
SWITCHGEAR SYSTEMS DIV
D D DUVALL
VICE PRESIDENT
ROUTE 309 & NORRISTOWN ROAD
SPRING HOUSE PA 19477

174145091415 1 99999
BROWN BOVERI ELECTRIC INC
SWITCHGEAR OPERATIONS
DON PURKEY
QA MANAGER
5550 S GARNETT RD
TULSA OK 74145

119477091416 1 99999
BROWN BOVERI ELECTRIC INC
SWITCHGEAR SYSTEMS DIV
E W RHODS
QA DIRECTOR
NORRISTOWN RD & RT 309
SPRING HOUSE PA 19477

1WGERM053329 1 99999
BROWN BOVERI REAKTOR GMBH
ABT TPE 14
FACHBUCHEREI
UDENSTR 44
6800 MANNHEIM 1 WGERMANY

240202000508 1 99999
BROWN TODD & HEYBURN
JOSEPH B HELM
ESQUIRE
16TH FLOOR CITIZENS PLAZA
LOUISVILLE KY 40202

BUHLER NUCLEAR PRODUCTS CO
W WAYLES
QA MANAGER
9000 PRECISION DR
INDIANAPOLIS IN 46236

106856057905 1 99999
BURNDY CORP
POWER
M R MONASHKIN
CONN AND RICHARDS AVE
203
NORWALK CT 06856

107649006086 1 99999
BURNS & ROE INC
S BARON
800 KINDERKAMACK RD
ORADELL NJ 07649

111797102090 1 99999
BURNS & ROE INC
F J PATTI
CHIEF NUCLEAR ENGINEER
185 CROSSWAYS PARK DR
WOODBURY NY 11797

107645038055 1 99999
BUTLER SERVICE GROUP INC
FRANK J CIAMPI
VICE PRESIDENT-HUMAN RESOURCES
110 SUMMIT AVE
PO BOX 460
MONTVALE NJ 07645

113126094460 1 99999
C & G VIDEO SYSTEMS INC
DBA/BISESI STUDIO- PHOTOGRAPHY
223 W 6TH ST
OSWEGO NY 13126

191802052970 1 99999
C F BRAUN & CO
A H WHITAKER
VICE PRES-POWER DIVISION
1000 S FREMONT AVE
ALHAMBRA CA 91802

190010092354 1 99999
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RADIOLOGIC HEALTH BRANCH
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BLDG 8
SACRAMENTO CA 95814

195814091833 1 99999
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CHAIRMAN
1516 NINTH ST
SACRAMENTO CA 95814

195816092022 1 99999
CALIFORNIA RADIO MATLS MGMT
ALAN D PASTERNAK
455 CAPITOL MALL
SUITE 380
SACRAMENTO CA 95816

BURNDY CORP
HUSKY PRODUCTS DIV
C F DUNCAN
QA MANAGER
7405 INDUSTRIAL RD
FLORENCE KY 41042

107649001157 1 99999
BURNS & ROE INC
TECH LIBRARY
800 KINDERKAMACK RD
ORADELL NJ 07649

107649066903 1 99999
BURNS & ROE INC
JOHN ELLWANGER
800 KINDERKAMACK RD
ORADELL NJ 07649

215077005708 1 99999
BURROUGH OF SHIPPINGPORT
RAYMOND E SCOTT
MAYOR
PO BOX 3
SHIPPINGPORT PA 15077

119462091424 1 99999
C & D BATTERIES
GEO BRANCA
QA DIRECTOR
3043 WALTON RD
PLYMOUTH MEETING MA 19462

191802091423 1 99999
C F BRAUN & CO
A G PICKFORD
QA MANAGER
ALHAMBRA CA 91802

106450020109 1 99999
C N FLAGG CO
GLENN R LACEY
MANAGER-QUALITY ASSURANCE
450 MURDOCK AVENUE
MERIDEN CT 06450

195814030938 1 99999
CALIFORNIA DEPT OF CONSERV
MINES & GEOLOGY
PERRY Y AMIMOTO
1416 9TH ST
RM 1341
SACRAMENTO CA 95814

195814093978 1 99999
CALIFORNIA ENERGY COMMISSION
SITING & ENVIRONMENTAL
E R DETTER
1516 9TH ST
16
SACRAMENTO CA 95814

194102094145 1 99999
CALIFORNIA PUBLIC UTILITY COM
JANICE E KERR
350 MCALLISTER ST
SAN FRANCISCO CA 94102

195814080938 1 99999
CALIFORNIA RESOURCES AGENCY
GORDON K VAN VLECK
SECRETARY FOR RESOURCES
1416 9TH ST
RM 1311
SACRAMENTO CA 95814

IX 77251

PA 18915

PA 19004

NC 28208

NC 27562

NC 27602

NC 27602

NC 27562

NC 27602

PA 19063

PA 19102

NY 10016

OH 43216

PA 19004

NC 27562

SC 29550

NC 28461

SC 29550

NC 28461

PA 19603

IL 60521

TN 38113

270004001221 1 99999
CENTER FOR LAW PUBLIC INTEREST
JOHN R PHILLIPS
ESQUIRE
10951 WEST PICO BLVD
LOS ANGELES CA 90064

1SPAIN023959 1 99999
CENTRAL NUCLEAR DE ALMARAZ
JUAN M BLANCO
PRINCESA 3
MADRID - 8 SPAIN

1BELGIO57562 1 99999
CENTRE D'ETUDE DE L'ENER NUCL
POWER PLANT BR 3
FRANCOIS MOTTE
ADMINISTRATOR
BOERETANG 200
B-2400 MOL BELGIUM

176163100797 1 99999
CERAMIC COOLING TOWER CO
QA MANAGER
PO BOX 330909
FORT WORTH TX 76163

105404053041 1 99999
CHAMPLAIN CABLE CORP
C L MARTIN
PO BOX 7
WINOOSKI VT 05404

102199067190 1 99999
CHARLES T MAIN INC
THERMAL POWER DIVISION
J H NOBLE
PRUDENTIAL CENTER
BOSTON MA 02199

129212091433 1 99999
CHEM NUCLEAR SYSTEMS INC
PO BOX 726
BARNSWELL SC 29212

160410082477 1 99999
CHEM NUCLEAR SYSTEMS INC
MICHEAL J BENJAMIN
PO BOX 293
CHANNAHON IL 60410

117331091434 1 99999
CHEMETRON CORP
D JACOBY
QA MANAGER
WILSON AVE PO BOX 517
HANOVER PA 17331

260602005200 1 99999
CHERRY & FLYNN
MYRON CHERRY
THREE FIRST NATIONAL PLAZA
SUITE 3700
CHICAGO IL 60602

135201052971 1 99999
CHICAGO BRIDGE & IRON CO
WELDING & QA DEPT
PO BOX 277
BIRMINGHAM AL 35201

1ENGLA03523 1 99999
CENTRAL ELECTRIC GEN BOARD
CENTRAL LIBRARY
G G TERRY
CHIEF LIBRARIAN
18 WARWICK LANE
LONDON EC4P 4EB COURTENAY HSE
ENGLAND

278403001480 1 99999
CENTRAL POWER & LIGHT CO
OFCR IN CHARGE-NUCLEAR AFFAIRS
PO BOX 2121
CORPUS CHRISTI TX 78403

1FRANCO03524 1 99999
CENTRE D'ETUDES NUCLEAIRES
DEPT DE SURETE NUCLEAIRE
GABRIELLE KATZ
BP NO 6
92.260
FONTENAY-AUX-ROSES FRANCE

105446091432 1 99999
CHAMPLAIN CABLE CORP
ROBERT JOE
QA MANAGER
HERCULES DR PO BOX 7
COLCHESTER VT 05446

227606092359 1 99999
CHANGE
DANIEL F READ
PRESIDENT
5707 WAYCROSS ST
RALEIGH NC 27606

125304063988 1 99999
CHARLESTON AREA MEDICAL CENTER
MEMORIAL DIV
RIDGELY CONANT
DIRECTOR OF NUC MEDICINE
3200 MACCORKLE AVE SE
CHARLESTON WV 25304

129210074270 1 99999
CHEM NUCLEAR SYSTEMS INC
INFORMATION CENTER
240 STONERIDGE DR
COLUMBIA SC 29210

117331091372 1 99999
CHEMETRON CORP
ALLOY RODS DIV
WILSON AVE
HANOVER PA 17331

140232091728 1 99999
CHEMETRON CORP
TUBE TURNS
LAWRENCE SETTLE
QC MANAGER
2900 W BROADWAY PO BOX 32160
LOUISVILLE KY 40232

138113052969 1 99999
CHICAGO BRIDGE & IRON CO
2700 CHANNEL AVE P O BOX 13308
MEMPHIS TN 38113

160521100783 1 99999
CHICAGO BRIDGE & IRON CO
NUCLEAR PROJECT SALES DEPT
T F BASGEN
800 JORIE BLVD
OAK BROOK IL 60521

177064091435 1 99999
CHICAGO BRIDGE & IRON CO
RALPH KELLEY
CNQA SERV MANAGER
8900 FAIRBANKS N HOUSTON RD
HOUSTON TX 77064

160901080119 1 99999
CHICAGO BRIDGE & IRON CO
G MCLISH
MANAGER-WELDING & QA
PO BOX 774
KANKAKEE IL 60901

160521091436 1 99999
CHICAGO BRIDGE & IRON CO
DONALD MOWRY
QA DIRECTOR
800 J/RIE BLVD
OAK PARK IL 60521

184110100704 1 99999
CHICAGO BRIDGE & IRON CO
JOHN L SNIDER
PLANT MANAGER
PO BOX 687
SALT LAKE CITY UT 84110

260611005731 1 99999
CHICAGO METRO SANITARY DIST
CECIL LUE HING
DIRECTOR OF RESEARCH & DEV
100 EAST ERIE STREET
CHICAGO IL 60611

120006082259 1 99999
CHUBU ELECTRIC POWER CO INC
900 17TH ST NW
SUITE 714
WASHINGTON DC 20006

145153080576 1 99999
CINCINNATI GAS & ELECTRIC CO
ZIMMER 1 NPS
PLANT MANAGER
MOSCOW OH 45153

145201079120 1 99999
CINCINNATI GAS & ELECTRIC CO
NUCLEAR SERVICES DEPT
K K CHITKARA
MANAGER
PO BOX 960
CINCINNATI OH 45201

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

145201082140 1 99999
CINCINNATI GAS & ELECTRIC CO
LEGAL DEPT
JEROME A VENNEMANN
PO BOX 960
CINCINNATI OH 45201

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

192801091439 1 99999
CIRCLE SEAL CORP
TECHNETIC DIV
ROBERT BRADSHAW
QA MANAGER
1111 N BROOKHURST ST
ANAHEIM CA 92801

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

175224065723 1 99999
CITIZENS ASSOC FOR SOUND ENGY
PRESIDENT
1426 S POLK ST
DALLAS TX 75224

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

260605006404 1 99999
CITIZENS FOR A BETTER ENVIRON
DANIEL MINTZ
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59 EAST VAN BUREN STREET
SUITE 1600
CHICAGO IL 60605

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

277422005309 1 99999
CITIZENS FOR EQUITABLE UTILS
PEGGY BUCHORN
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BRAZORIA TX 77422

278767007039 1 99999
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278767001481 1 99999
CITY OF AUSTIN
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249106005691 1 99999
CITY OF BRIDGMAN
MAYOR
BRIDGMAN MI 49106

101950093219 1 99999
CITY OF NEWBURYPORT
OFFICE OF MAYER
RICHARD E SULLIVAN
MAYOR
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CITY OF PHILADELPHIA
LEO A BROOKS
MANAGING DIRECTOR
1620 MUNICIPAL SERVICES BLDG
PHILADELPHIA PA 19102

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

144101004553 1 99999
CLEVELAND ELEC ILLUMINATING CO
SYSTEMS ENGINEERING & CONSTR
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VICE PRESIDENT-ENGINEERING
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244101000067 1 99999
CLEVELAND ELEC ILLUMINATING CO
DONALD H HAUSER
ESQUIRE
PO BOX 5000
CLEVELAND OH 44101

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

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

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

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

153511051945 1 99999
COLT INDUSTRIES
WESLEY A BRILL
701 LAWTON AVE
BELOIT WI 53511

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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
10 CENTER RD
PERRY OH 44081

244101001520 1 99999
CLEVELAND ELEC ILLUMINATING CO
MURRAY R EDELMAN
VICE PRESIDENT-NUCLEAR
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CLEVELAND OH 44101

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

18BRAZIO08064 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
PORTLAND OR 97204

190701091442 1 99999
COAST INDUSTRIAL SUPPLY CO
JAMES A LYNCH
QA MANAGER
15959 PUIMA AVE
CERRITOS CA 90701

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
701 LAWTON AVENUE
BELOIT WI 53511