

OCTOBER 22 1982

Docket Nos. 50-445/446, 50-528/529/530, STN50-483-
50-322; 50-395; 50-387/388; 50-382
and 50-330.

MEMORANDUM FOR: The Atomic Safety & Licensing Boards for:

Comanche Peak Steam Electric Station, Units 1 & 2
Callaway Plant, Unit 1
Palo Verde Nuclear Generating Station, Units 1/2/3
Shoreham Nuclear Power Station, Unit 1
Waterford Steam Electric Station, Unit 3
Midland Power Station, Units 1 & 2

and The Atomic Safety & Licensing Appeal Boards for:

Virgil C. Summer Nuclear Station, Unit 1
Susquehanna Steam Electric Station, Units 1 & 2
Waterford Steam Electric Station, Unit 3

FROM: Thomas M. Novak, Assistant Director
for Licensing
Division of Licensing, ONRR

SUBJECT: BOARD NOTIFICATION - WELDS IN MAIN CONTROL PANELS
(Board Notification No. 82-90A)

In accordance with present NRC procedures regarding Board Notifications, the enclosed information is being provided for your information as constituting new information relevant and material to safety issues. This information is generic and may have applicability to all dockets with control panels supplied by Systems Control of Iron Mountain, Michigan; Reliance Electric of Stone Mountain, Georgia; and Comsip of Linden, New Jersey.

This information notice provides additional information and clarification of welding deficiencies in main control panels which were the subject of an earlier Board Notification, 82-90. The potential safety significance of this item is still under review by the NRC staff.

Original signed by:
Thomas M. Novak

Thomas M. Novak, Assistant Director
for Licensing
Division of Licensing

8211110411 821022
PDR ADOCK 05000332
A PDR

Enclosure:
As stated

cc: Licensee/Board Service List

OFFICE	DL	DL					
SURNAME	Scheut:lb	TMNovak					
DATE	10/19/82	10/19/82					

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Docket Nos. 50-528/529/530

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Rand L. Greenfield
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Lynne Bernabei, Esq.

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Mr. Jeff Smith
MHB Technical Associates
Hon. Peter Cohalan
Mr. Jay Dunkleberger

Waterford Unit 3
Docket No. 50-382

Stephen F. Eilperin, Esq.
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Christine N. Kohl, Esq.
Sheldon J. Wolfe, Esq.
Dr. Walter H. Jordan
Dr. Harry Foreman
E. Blake, Esq.
Mr. Gary L. Groesch
Luke B. Fontana, Esq.
Malcolm Stevenson, Esq.
Linda B. Watkins, Esq.
William J. Guste, Jr., Esq.

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Licensing Board Panel
Atomic Safety and
Licensing Appeal Panel
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Section
Document Management Branch

ACRS Members

Dr. Robert C. Axtmann
School of Engineering and
Applied Science
Princeton University
Princeton, NJ 08540

Mr. Myer Bender
9524 Twelve Trees Lane
Knoxville, TN 37922

Dr. Max W. Carbon, Chairman
Nuclear Engineering Department
Engineering Research Building
University of Wisconsin
Madison, WI 53706

Mr. Jesse C. Ebersole
103 Newell Lane
Oak Ridge, TN 37830

Mr. Harold Etherington
84 Lighthouse Drive
Jupiter, FL 33458

Dr. William Kerr
Department of Nuclear
Engineering
Phoenix Laboratory
North Campus
University of Michigan
Ann Arbor, MI 48109

Dr. Harold W. Lewis
Dept. of Physics - RM 6114
University of California
Santa Barbara, CA 93106

Dr. J. Carson Mark
Los Alamos Scientific Lab.
Theoretical Division
P.O. Box 1663 - MS 210
Los Alamos, NM 87545

Mr. William M. Mathis
455 Mainmast Court
Richland, WA 99352

Dr. Dade W. Moeller, Head
27 Wildwood Drive
Bedford, MA 01730

Dr. David Okrent
Energy and Kinetics Dept.
5532 Boelter Hall
School of Engineering &
Applied Science
University of California
Los Angeles, CA 90024

Dr. Milton S. Plesset
California Inst. of Technology
104-44
Pasadena, CA 91109

Mr. Jeremish J. Ray
819 Lantern Lane
Langhorne, PA 19047

Dr. Paul G. Shewmon
2477 Lytham Road
Columbus, OH 43220

Dr. Chester P. Siess
805 Hamilton Drive
Champaign, IL 61820

Mr. David A. Ward
E.I. du Pont de Nemours &
& Company
Savannah River Laboratory
Building 773-A, A-219
Aiken, SC 29808

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Docket No. 50-395

Alan S. Rosenthal, Esq.
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Richard P. Wilson, Esq.
Mr. John Ruoff
Brett Allen Bursey
Joseph B. Knotts, Esq.
Randolph R. Mahan, Esq.

Waterford Unit 3
Docket No. 50-382

Stephen F. Eilperin, Esq.
Dr. Reginald L. Gotchy
Sheldon J. Wolfe, Esq.
Dr. Walter H. Jordan
Dr. Harry Foreman
E. Blake, Esq.
Mr. Gary L. Groesch
Luke B. Fontana, Esq.
Malcolm Stevenson, Esq.
Linda B. Watkins, Esq.
William J. Guste, Jr., Esq.

Susquehanna Units 1&2
Docket Nos. 50-387/388

Thomas S. Moore, Esq.
Dr. John H. Buck
Stephen F. Eilperin, Esq.
James P. Gleason, Esq.
Mr. Glenn O. Bright
Dr. Paul W. Purdom
Jay Silberg, Esq.
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Susquehanna Environmental
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Dr. Chester P. Siess
Mr. David A. Ward

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SAMUEL J BIRK
RR #1 BCX 243
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EARL BROWN
SCHOOL DISTRICT SUPERINTENDENT
PO BOX 9
KINGDOM CITY MC 65262

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BRETT A BURSEY
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LITTLE MOUNTAIN SC 29076

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PETER COHALAN
SUFFOLK COUNTY EXECUTIVE
VETERANS MEMORIAL HIGHWAY
HAUPPAUGE NY 11788

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FREDERICK P COWAN
6152 VERDE TRAIL
BOCA RATON FL 33433

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RALPH S DECKER
ROUTE 4 BOX 190C
CAMBRIDGE MD 21613

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STEVE GAOLER
2120 CARTER AVENUE
ST PAUL MN 55108

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COUNTY EXEC/LEGISLATIVE BLDG
DAVID GILMARTIN ESC
SUFFOLK COUNTY ATTORNEY
VETERANS MEMORIAL HIGHWAY
HAUPPAUGE NY 11788

270119007040 1 2H4B3L2J3R4D2
GARY L GRICESCH
2257 BAYFON POAC
NEW ORLEANS LA 70119

285040005306 1 2H4B3L2J3R4D2
PATRICIA L HCURIHAN
6413 SOUTH 26TH ST
PHOENIX AZ 85040

100A 55HA RD4
MOUNTAIN TOP

PA 18707

ROUTE 10
MIDLAND

MI 48640

265262006110 1 2H4B3L2J3R4D2
JCFN G REED
RFD #1
KINGDOM CITY MO 65262

248103005173 1 2H4B3L2J3R4D2
WILLIAM J SCANLON
2034 PAULINE BLVD
ANN ARBOR MI 48103

248623005178 1 2H4B3L2J3R4D2
BARBARA STAMIRIS
5755 N RIVER
FREELAND MI 48623

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HOWARD STEFFEN
MAYCR
CHAMCIS MO 65024

260439006414 1 2H4B3L2J3R4D2
ARGONNE NATIONAL LABORATORY
NRC ASSISTANCE PROJECT
I CHARAK
MANAGER
9700 SOUTH CASS AVENUE
ARGONNE IL 60439

285007001376 1 2H4B3L2J3R4D2
ARIZONA ATTORNEY GENERAL
CHARLES S PIERSON
ASSISTANT ATTORNEY GENERAL
1700 WEST WASHINGTON
PHOENIX AZ 85007

285007001377 1 2H4B3L2J3R4D2
ARIZONA GOVERNORS OFFICE
ECCA PLAN & DEV - ENERGY PROG
MARGARET WALKER
DEPUTY DIRECTOR
1700 WEST WASHINGTON
PHOENIX AZ 85007

285036001550 1 2H4B3L2J3R4D2
ARIZONA PUBLIC SERVICE CO
NUCLEAR PROJECTS
E E VAN BRUNT
VICE PRESIDENT
PO BOX 21666
PHOENIX AZ 85036

220814005115 1 2H4B3L2J3R4D2
BABCOCK & WILCOX CO
NUCLEAR POWER GENERATION DIV
ROBERT B BORSUM
7910 WCCCMONT AVE
SUITE 220
BETHESDA MD 20814

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E B POSER
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PC BOX 3965
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BLAU & COHN
HOWARD L BLAU
ESQUIRE
217 NEWBRIDGE RD
HICKSVILLE NY 11801

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BRICH HORTON BITTNER & MCNARCE
ERIC A EISEN
1140 CONNECTICUT AVE NW
SUITE 1100
WASHINGTON DC 20036

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CITIZENS AGAINST NUC DANGERS
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PC BOX 5
SCRANTON PA 18501

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CITIZENS ASSOC FOR SOUND ENGY
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1426 SOUTH POLK
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COALITION FOR THE ENVIRONMENT
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ESQUIRE
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SUITE 700
WASHINGTON DC 20036

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SAN JOSE CA 95125

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NEW ORLEANS LA 70116

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1725 I STREET NW SUITE 506
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ESC
1900 M ST NW
8TH FLOOR
WASHINGTON DC 20036

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KIRKPATRICK LOCKHART ET AL
KARLA J LETSCHE
ESC
1900 M ST NW
WASHINGTON DC 20036

ELGER W HUSTON
7910 WOODMONT AVE
SUITE 220
BETHESDA MD 20814

265251006106 1 2H4B3L2J3R4D2
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RICHMOND VA 23212

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ST LOUIS MO 63114

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7065 PERSHING AVE
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NUCLEAR
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NEW ORLEANS LA 70174

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VICE PRESIDENT
142 DELARONDE ST
NEW ORLEANS LA 70174

248905001425 1 2H483L2J3R4D2
MICHIGAN DEPT OF PUBLIC HEALTH
DIV OF RADIOLOGICAL HEALTH
DON VAN FARCHE
CHIEF
PC BOX 33035
LANSING MI 48909

270161006470 1 2H483L2J3R4D2
MIDDLE SCOUT SERVICES
D C GIBBS
VICE PRESIDENT
225 BARONNE STREET
BOX 6100
NEW ORLEANS LA 70161

263130006108 1 2H483L2J3R4D2
MISSOURIANS FOR SAFE ENERGY
DONALD BOLLINGER
MEMBER
6267 DELMAR BLVD
UNIVERSITY CITY MO 63130

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RAND L GREENFIELD
ASSISTANT ATTORNEY GENERAL
BATAAN MEMORIAL BUILDING
SANTA FE NM 87503

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JAY DUNKLEBURGER
DEPUTY COMMISSIONER & COUNSEL
EMPIRE STATE PLAZA AGY BLDG 2
ALBANY NY 12223

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PENNSYLVANIA DEPT OF ENVIR RES
ROBERT W ACLER
505 EXECUTIVE HOUSE
PC B 2357
HARRISBURG PA 15120

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PENNSYLVANIA POWER & LIGHT CO
WILLIAM E BARBERICH
SUPV-NUCLEAR LIC
2 NORTH NINTH STREET
ALLENTOWN PA 18101

MISSOURI CHAPTER
BARBARA SHULL
2138 WOODSON ROAD
ST LOUIS MO 63114

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M S POLLACK
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HICKSVILLE NY 11801

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WATERFORD 3 SES
D B LESTER
PRODUCTION ENGINEER
142 DELARONDE STREET
NEW ORLEANS LA 70174

295125006063 1 2H483L2J3R4D2
MHB TECHNICAL ASSOC
1723 HAMILTON AVENUE
SUITE K
SAN JOSE CA 95125

248913001422 1 2H483L2J3R4D2
MICHIGAN CFC OF ATTY GEN
ENVIRON PROTECTION DIVISION
STEWART H FREEMAN
ASST ATTORNEY GENERAL
720 LAW BUILDING
LANSING MI 48913

265101001355 1 2H483L2J3R4D2
MISSOURI PUBLIC SERVICE COM
A S CAUGER
ASST GENERAL COUNSEL
PG BOX 360
JEFFERSON CITY MO 65101

270130001279 1 2H483L2J3R4D2
MONRCE & LEMANN
W M STEVENSON
ESQUIRE
1424 WHITNEY BUILDING
NEW ORLEANS LA 70130

210047005352 1 2H483L2J3R4D2
NEW YORK DEPT OF LAW
ENVIRONMENTAL PROTECTION BUR
EZRA I BIALIK
ASSISTANT ATTORNEY GENERAL
2 WORLDC TRADE CENTER
NEW YORK NY 10047

212223001605 1 2H483L2J3R4D2
NEW YORK PUBLIC SERVICE COM
MATTHEW J KELLY
ROCKEFELLER EMPIRE STATE PLAZA
ALBANY NY 12223

217120001496 1 2H483L2J3R4D2
PENNSYLVANIA DEPT OF ENVIR RES
BUREAU OF RADIATION PROTECTION
THOMAS M GERUSKY
DIRECTOR
PC BOX 2063
HARRISBURG PA 17120

218101000626 1 2H483L2J3R4D2
PENNSYLVANIA POWER & LIGHT CO
N W CURTIS
2 NORTH 9TH STREET
ALLENTOWN PA 18101

EDWARD M. WATKINS
GENERAL COUNSEL & SECRETARY
2 NORTH NINTH STREET
ALLENTOWN PA 18101

STEPHEN M. IRVING
535 NORTH 6TH ST
BATON ROUGE LA 70802

229218006033 1 2H483L2J3R4D2
S CAROLINA ELEC & GAS CO
O W CIXON
VICE PRESIDENT-NUCLEAR CPER
PO BOX 764 MAIL CODE F-04
COLUMBIA SC 29218

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COLUMBIA SC 29218

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S CAROLINA PUB SERV COM
HENRY CYRUS
SENIOR VICE PRESIDENT
233 NORTH LIVE OAK DRIVE
MCACKS NC 29461

220036000650 1 2H483L2J3R4D2
SHAW PITTMAN PCTTS TRCWBRIDGE
ERNEST E BLAKE
1800 M STREET NW
WASHINGTON DC 20036

220036000038 1 2H483L2J3R4D2
SHAW PITTMAN PCTTS TRCWBRIDGE
JAY E SILBERG
ESQUIRE
1800 M STREET NW
WASHINGTON DC 20036

211792006326 1 2H483L2J3R4D2
SHOREHAM NUCLEAR POWER STATION
JEFF SMITH
PO BOX 618
WADING RIVER NY 11792

285073000937 1 2H483L2J3R4D2
SNELL & WILMER
ARTHUR C GERB
ESQUIRE
3100 VALLEY CENTER
PHOENIX AZ 85073

220850001347 1 2H483L2J3R4D2
SNUPPS
NICHOLAS A PETRICK
EXECUTIVE DIRECTOR
5 CHOKE CHERRY ROAD
ROCKVILLE MD 20850

291770005372 1 2H483L2J3R4D2
SOUTHERN CALIFORNIA EDISON CO
CHARLES R KOCHEK
ASSISTANT GENERAL COUNSEL
PO BOX 800
ROSEMead CA 91770

218703001492 1 2H483L2J3R4D2
SUSQUEHANNA ENVIRON ADVOCATES
GERALD R SCHULTZ
PO BOX 1560
WILKES-BARRE PA 18703

278711006031 1 2H483L2J3R4D2
TEXAS ATTORNEY GENERALS OFFICE
ENVIRONMENTAL PROTECTION DIV
DAVID J PREISTER
ASSI ATTORNEY GENERAL
PO BOX 12548 CAPITOL STATION
AUSTIN TX 78711

275201006229 1 2H483L2J3R4D2
TEXAS UTILITIES GENERATING CO
R J GARY
EXEC VICE PRES & GEN MANAGER
2001 BRYAN TOWERS
DALLAS TX 75201

275201006518 1 2H483L2J3R4D2
TEXAS UTILITIES SERVICES INC
HOMER C SCHMIDT
MANAGER-NUCLEAR SERVICES
2001 BRYAN TOWER
DALLAS TX 75201

211901005353 1 2H483L2J3R4D2
TWCMEY LATHAM & SHEA
STEPHEN LATHAM
33 WEST SECOND STREET
PO BOX 398
RIVERHEAD NY 11501

263166001356 1 2H483L2J3R4D2
UNION ELECTRIC CO
J E BIRK
ASSISTANT TO THE GEN COUNSEL
PO BOX 149
SAINT LOUIS MO 63166

263166006486 1 2H483L2J3R4D2
UNION ELECTRIC CO
NUCLEAR ENGINEERING
DONALD W CAPONE
MANAGER
PO BOX 149
ST LOUIS MO 63166

263166001553 1 2H483L2J3R4D2
UNION ELECTRIC CO
DONALD F SCHNELL
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PO BOX 149-MAIL CODE 400
ST LOUIS MO 63166

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UNIVERSITY OF MISSOURI
MISSOURI/KANSAS SEC-AM NUC SOC
WILLIAM H MILLER
DEPT OF NUCLEAR ENGINEERING
1C26 ENGINEERING BLDG
COLUMBIA MO 65211

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RESIDENT INSPECTOR
ROUTE 7
MIDLAND MI 48640

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US NRC
PALM VERDE NPS
RESIDENT INSPECTOR
PO BOX 21324
PHOENIX AZ 85001

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ROCKY POINT NY 11778

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US NRC
ATOMIC SAFETY & LICENSING BD
CHARLES BECHTOLD
ESC
WASHINGTON DC 20555

265077005073 1 2H4B3L2J3R4D2
US NRC
CALLAWAY NPS
JOHN NEISLER
RESIDENT INSPECTOR
RR # 1
STEEDMAN MO 65077

219406006387 1 2H4B3L2J3R4D2
US NRC REGION I
REGIONAL ADMINISTRATOR
631 PARK AVENUE
KING OF PRUSSIA PA 19406

260137006385 1 2H4B3L2J3R4D2
US NRC REGION III
REGIONAL ADMINISTRATOR
799 ROOSEVELT ROAD
GLEN ELLYN IL 60137

294596006383 1 2H4B3L2J3R4D2
US NRC REGION V
REGIONAL ADMINISTRATOR
1450 MARIA LANE
SUITE 210
WALNUT CREEK CA 94596

275201006519 1 2H4B3L2J3R4D2
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SPENCER C. PELYCA
2001 BRYAN TOWER
CALLAS TX 75201

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US NRC
SUMMER NPS
RESIDENT INSPECTOR
PO BCX 64 ROUTE 1
JENKINSVILLE SC 29065

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US NRC
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RESIDENT INSPECTOR
PO BCX 822
KILLONA LA 70066

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US NRC
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JERRY HARBCUR
FSQ
WASHINGTON 20555

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US NRC
COMANCHE PEAK NPS
ROBERT G TAYLOR
RESIDENT INSPECTOR
PO BCX 38
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230303006386 1 2H4B3L2J3R4D2
US NRC REGION II
REGIONAL ADMINISTRATOR
101 MARIETTA STREET
SUITE 3100
ATLANTA GA 30303

276011006384 1 2H4B3L2J3R4D2
US NRC REGION IV
REGIONAL ADMINISTRATOR
611 RYAN PLAZA DRIVE
SUITE 1000
ARLINGTON TX 76011

215230006516 1 2H4B3L2J3R4D2
WESTINGHOUSE ELECTRIC CORP
A T PARKER
PO BOX 355
PITTSBURGH PA 15230

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

September 17, 1982

IE INFORMATION NOTICE NO. 82-34, REV 1: WELDS IN MAIN CONTROL PANELS

Addressees:

All holders of a nuclear power reactor operating license (OL) or construction permit (CP).

Purpose:

This revision is made to provide the specific time period during which the potentially significant problem pertaining to welds in main control panels may have existed. The panels of concern were supplied to a number of operating plants and construction sites by Systems Control of Iron Mountain, Michigan prior to March 1980; Reliance Electric of Stone Mountain, Georgia prior to March 1982; and Comsip of Linden, New Jersey prior to March 1982. Only those panels manufactured prior to these dates are now included in the list of sites which may have panels with defective welds. The potential safety significance of this problem is still under review by the Nuclear Regulatory Commission (NRC) staff. If NRC evaluation so indicates, further licensee action may be requested. In the interim, the staff expects licensees to review the information herein for applicability to their facilities. No specific action or response is required at this time.

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Description of Circumstances:

Inspections at the vendors' facilities conducted in March of 1980 (Systems Control) and March of 1982 (Reliance and Comsip) disclosed numerous welding practices not in accordance with the American Welding Society (AWS) Standards and several quality assurance practices not in compliance with the vendors' procedures or NRC requirements. Among these were the following:

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R1

1. Certified material test reports not obtained, not available, or not in accordance with AWS specifications
2. Changes to drawings not properly reviewed and accepted
3. Welding being done by unqualified individuals without qualified procedures and using uncalibrated equipment
4. Poor welds, including lack of fusion, undercuts in excess of 1/32", and weld wire remnants from 1/2" to 4" in accepted welds
5. Welding procedure qualification and welder qualification testing required by AWS Standards not accomplished
6. Essential variables as specified by AWS Standards violated
7. Management oversight not accomplished for lengthy periods; lack of separate review and approval for Quality Assurance
8. Unidentified weld filler metal used
9. Gas tungsten arc welding (GTAW) process used but not documented in place of required gas metal arc welding (GMAW) or shielded metal arc welding (SMAW) processes

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Since the inspection determined that the non-conforming practices of all three vendors were similar and widespread at each manufacturing facility, it can be assumed that any panel furnished by these vendors prior to the respective NRC inspection dates may have defective welds. Although the vendors have seismically qualified similar panels, improper welding practices and defective welds prior to the NRC inspection may affect the validity of those qualifications. R1
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Some control panels were identified during vendor inspections as having defective welds. Sites which have received panels that may have defective welds are as follows: Palo Verde 1, 2, and 3; Byron 1 and 2; Braidwood 1 and 2; Midland 1 and 2; Vogtle 1 and 2; Callaway 1; Comanche Peak 1 and 2; Waterford 3; Wolf Creek; Brunswick 1 and 2; Seabrook; Susquehanna; Three Mile Island 1; Salem 1 and 2; Hope Creek; Monticello; Perry 1 and 2; Hatch 1 and 2; Indian Point 2; Shearon Harris 1, 2, 3, and 4; St. Lucie 2; Shoreham; Virgil Summer; Dresden; and LaSalle. R1
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If you have any questions regarding this matter, please contact the administrator of the appropriate Regional Office or this office.

Edward L. Jordan, Director
Division of Engineering and
Quality Assurance
Office of Inspection and Enforcement

Technical Contact: M. S. Wegner
301-492-4511

Attachment:
List of Recently Issued IE Information Notices

LIST OF RECENTLY ISSUED
IE INFORMATION NOTICES

Information Notice No.	Subject	Date of Issue	Issued to
82-37	Cracking in the Upper Shell to Transition Cone Girth Weld of a Steam Generator at an Operating Pressurized Water Reactor	9/16/82	All power reactor facilities holding an OL or CP
82-36	Respirator Users Warning for Certain 5-Minute Emergency Escape Self-Contained Apparatus	9/2/82	All power reactor facilities holding an OL or CP, fuel facilities and Priority I material licensees
82-35	Failure of Three Check Valves on High Pressure Injection Lines to Pass Flow	8/25/82	All power reactor facilities holding an OL or CP
82-34	Welds in Main Control Panels	8/25/82	All power reactor facilities holding an OL or CP
82-33	Control of Radiation Levels in Unrestricted Areas Adjacent to Brachytherapy Patients	8/20/82	All Medical Institutions
82-32	Contamination of Reactor Coolant System by Organic Cleaning Solvents	8/19/82	All power reactor facilities holding an OL or CP
82-31	Overexposure of Diver During Work in Fuel Storage Pool	7/28/82	All power reactor facilities holding an OL or CP
82-30	Loss of Thermal Sleeves in Reactor Coolant System Piping at Certain Westinghouse PWR Power Plants	7/26/82	All power reactor facilities holding an OL or CP and applicants for operating license (NTOL)
82-29	Control Rod Drive (CRD) Guide Tube Support Pin Failures at Westinghouse PWRS	7/23/82	All power reactor facilities holding an OL or CP Westinghouse-designed NSSS

OL = Operating License
CP = Construction Permit

BOARD NOTIFICATION NO. 82-90A
Memo to Atomic Safety & Licensing Board
and Atomic Safety & Licensing Appeal Board

OCTOBER 22 1982
DATED _____

Welds in Main Control Panels

Distribution

Document Control (50-445/446, 50-528/529/530, STN50-483,
50-322, 50-395, 50-387/388, 50-382 and 50-330)

NRC PDR

L PDR

PRC System

NSIC

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J. Lee

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M. Williams

PPAS

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H. Thompson

Attorney, OELD

E. L. Jordan, DEQA:IE

J. M. Taylor, DRP:IE

W. J. Dircks, EDO

E. Christenbury, OELD

J. Scinto, OELD

A. Bennett, OELD

J. Hard, E/W-450

BCC: Board/Licensee's Service List