Docket Nos. 50-289,395,275/323,382, 528/529/530,362,370,389, 413/414,362,389,370,341, 358,416

MAR 3 1983

MEMORANDUM FOR: Chairman Palladino

Commissioner Gilinsky Commissioner Ahearne Commissioner Roberts Commissioner Asselstine

FROM:

Darrell G. Eisenhut, Director

Division of Licensing

SUBJECT:

BOARD NOTIFICATION 83-26 - FAILURE OF REACTOR TRIP BREAKERS

TO OPEN IN TRIP SIGNAL

In accordance with the procedures for Board notification, the enclosed information is being transmitted directly to the Commission. This information describes an event that occurred at Salem Unit 1 on February 25, 1983.

The event was a failure of the reactor trip breakers (Westinghouse DB-50) to open upon receipt of an automatic trip signal from the protection system. This information is significant since it may affect the NRC staff's conclusions related to the probability/corrective measures for anticipated transient without scram (ATWS) events (Unresolved Safety Issue A-9) which is discussed in the NRC safety evaluations for power reactors. In addition, it may affect the staff's evaluation concerning quality assurance measures as they are applied to specific components.

The enclosed information describes the event and the NRC short-term corrective action. We will inform the Commission and/or appropriate Boards of further information which would result in a change in the existing staff conclusions concerning the adequacy of the present ATWS and QA procedures.

8303150620 830303 PDR ADDCK 05000272 S PDR Darrell G. Eisenhut, Director Division of Licensing

Enclosure: As stated

cc: OPE

OGC EDO

OFFICE SECV CAUL OLD SURNAME MW11kiams: wcs DGE: senhut A/X/83 73/83

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Byron 1&2 (Smith, Callihan, Cole)
Callaway 1&2 (Gleason, Bright, Kline)
Comanche Peak (Miller, Cole, McCollum)
Indian Point 2&3 (Gleason, Paris, Shon)
Midland 1&2 (Beckhoefer, Cowan, Harbour)
San Onofre 2&3 (Kelley, Hand, Johnson)
Palo Verde 1-3 (Lazo, Callihan, Cole)
Perry 1&2 (Bloch, Kline, Shon)
Shoreham (Brenner, Carpenter, Morris)

## ASLAB and Parties to the Proceedings for:

Comanche Peak (Miller, Cole, McCollum)
Diablo Canyon 1&2 (Moore, Johnson, Buck)
Fermi 2 (Eilperin, Gotchy, Moore)
FNP 1-8 (Kohl, Johnson, Wilber)
San Onofre 2&3 (Eilperin, Gotchy, Johnson)
Palo Verde 1-3 (Rosenthal, Eilperin, Wilber)
TMI-1 (Edles, Buck, Gotchy, Kohl)
Waterford 3 (Eilperin, Gotchy, Kohl)
Zimmer (Rosenthal, Eilperin, Wilber)

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Fermi Unit 2, Docket No. 50-341
Floating Nuclear Plants, Docket No. 50-437
Midland Units 1&2, Docket Nos. 50-329/330
Palo Verde Units 1-3, Docket Nos. 50-528-530
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Myron M. Cherry, P.C. City of Brigantine Attn: Mr. George B. Ward Hon. Peter Cohalan Dr. Richard F. Cole Mr. John T. Collins Troy B. Conner, Esq. Mr. Gary D. Cotton Barton Z. Cowan, Esq. Dr. Frederick P. Cowan Philip A. Crane, Jr., Esq. T. J. Creswell James B. Dougherty, Esq. Mr. Thomas M. Daugherty Mr. John J. Degnan Andrew B. Dennison, Esq. Mr. Jay Dunkleberger Gary J. Edles, Esq. Stephen F. Eilperin, Esq. Eric A. Eisen, Esq. Mr. Frederick Eissler Mrs. Juanita Ellis Donald T. Ezzone, Esq. Dr. George A. Ferguson Lawrence R. Fisse, Esq. David S. Fleischaker, Esq. Mrs. Raye Fleming Luke B. Fontana, Esq. Dr. Harry Foreman Mr. John H. Frye, III Steve J. Galder, P.E. Phyllis M. Gallagher, Esq. Joseph Gallo, Esq. Arthur C. Gehr, Esq. Esq. David H. Gilmartin, Esq. Mr. Stewart M. Glass

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Professor William H. Miller John Minock, Esq. Thomas S. Moore, Esq. William J. Moran, Esq. Dr. Peter A. Morris Ms. Pat Morrison Paul M. Murphy, Esq. Bruce Norton, Esq. Keith A. Onsdorff, Esq. Mr. Spence Perry David R. Pigott, Esq. Mr. Samuel H. Porter David J. Preister, Esq. Robert M. Rader, Esq. Mr. Paul Rau

Mr. John G. Reed Region III, USNRC Ms. Marjorie Reilly W. Taylor Reveley III, Esq. Joel R. Reynolds, Esq. Nicholas S. Reynolds, Esq. Ken Robinson, Esq. Dr. Willard W. Rosenberg Alan S. Rosenthal, Esq. Dr. David Schink Mr. James O. Schuyler Cherif Sedky, Esq. Ralph Shapiro, Esq. Ms. Barbara Shull Jay Silberg, Esq. Mr. Gordon Silver Ms. Mary Sinclair Lanny Alan Sinkin Ivan W. Smith, Esq. Mr. Jeff Smith

Ms. Barbara Stamiris Mayor Howard Steffen Malcolm Stevenson, Esq. Michael J. Strumwasser, Esq. Mr. Myer Bender Mr. Robert G. Taylor Paul C. Valentine, Esq. Carl Valore, Esq. Harry Voigt, Esq. Mr. James A. Walker Mr. Robert F. Warnick Alan R. Watts, Esq. Deborah Webb, Esq. Ellyn R. Weiss, Esq. Richard J. Wharton, Esq. Howard A. Wilber, Esq. Frederick C. Williams, Esq. Dr. Paul C. Shewmon Mr. John H. Williamson Harry M. Willis, Esq. Daniel D. Wilt, Esq. John F. Wolf, Esq. Sheldon J. Wolfe, Esq. John D. Woliver, Esq. Mr. Robert G. Wright Dr. Bruce von Zellen

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

#### ACRS Members

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STN 50-454/455

Mr. Louis O. DelGeorge Director of Nuclear Licensing Commonwealth Edison Company Post Office Box 767 Chicago, Illinois 60690

cc: Mr. William Kortier
Atomic Power Distribution
Westinghouse Electric Corporation
Post Office Box 355
Pittsburgh, Pennsylvania 15230

Paul M. Murphy, Esq. Isham, Lincoln & Beale One First National Plaza 42nd Floor Chicago, Illinois 60603

Mrs. Phillip B. Johnson 1907 Stratford Lane Rockford, Illinois 61107

Ms. Bridget Little Rorem Appleseed Coordinator 117 North Linden Street Essex, Illinois 60935

Dr. Bruce von Zellen Department of Biological Sciences Northern Illinois University DeKalb, Illinois 61107

Mr. Edward R. Crass Nuclear Safeguards and Licensing Division Sargent & Lundy Engineers 55 East Monroe Street Chicago, Illinois 60603

Myron Cherry, Esq. Cherry & Flynn Suite 3700 Three First National Plaza Chicago, Illinois 60602

Mr. William Fourney U.S. Nuclear Regulatory Commission Byron/Resident Inspectors Office 4448 German Church Road Byron, Illinois 61010

Ms. Diane Chavez 326 N. Avon Street Rockford, Illinois 61103 Mr. James G. Keppler U.S. Nuclear Regulatory Commission Region III 799 Roosevelt Road Glen Ellyn, Illinois 60137

Joseph Gallo, Esq. Isham, Lincoln & Beale Suite 840 1120 Connecticut Avenue, N. W. Washington, D. C. 20036 Mr. D. F. Schnell Vice President - Nuclear Union Electric Company Post Office Box 149 St. Louis, Missouri 63166

cc: Mr. Nicholas A. Petrick
Executive Director - SNUPPS
5 Choke Cherry Road
Rockville, Maryland 20850

Gerald Charnoff, Esq.
Thomas A. Baxter, Esq.
Shaw, Pittman, Potts & Trowbridge
1800 M Street, N. W.
Washington, D. C. 20036

Mr. J. E. Birk Assistant to the General Counsel Union Electric Company Post Office Box 149 St. Louis, Missouri 63166

Mr. John Neisler U.S. Nuclear Regulatory Commission Resident Inspectors Office RR#1 Steedman, Missouri 65077

Mr. Donald W. Capone, Manager Nuclear Engineering Union Electric Company Post Office Box 149 St. Louis, Missouri 63166

A. Scott Cauger, Esq.
Assistant General Counsel for the
Missouri Public Service Comm.
Post Office Box 360
Jefferson City, Missouri 65101

Ms. Barbara Shull Ms. Lenore Loeb League of Women Voters of Missouri 2138 Woodson Road St. Louis, Missouri 63114

Ms. Marjorie Reilly
Energy Chairman of the League of 1140 Connecticut Avenue,
Women Voters of University City, MO Washington, D. C. 20036
7065 Pershing Avenue
University City, Missouri 63130 Mr. John G. Reed

Mayor Howard Steffen Chamois, Missouri 65024 Mr. Fred Luekey Presiding Judge, Montgomery County Rural Route Rhineland, Missouri 65069

Professor William H. Miller
Missouri Kansas Section, American
Nuclear Society
Department of Nuclear Engineering
1026 Engineering Building
University of Missouri
Columbia, Missouri 65211

Mr. Robert G. Wright
Assoc. Judge, Eastern District
County Court, Callaway County, Missouri
Route #1
Fulton, Missouri 65251

Kenneth M. Chackes Chackes and Hoare Attorney for Joint Intervenors 314 N. Broadway St. Louis, Missouri 63102

Mr. Earl Brown School District Superintendent Post Office Box 9 Kingdom City, Missouri 65262

Mr. Samuel J. Birk R. R. #1, Box 243 Morrison, Missouri 65061

Mr. Harold Lottman
Presiding Judge, Dasconade County
Route 1
Owensville, Missouri 65066

Eric A. Eisen, Esq. Birch, Horton, Bittner and Moore Suite 1100 1140 Connecticut Avenue, N. W. Washington, D. C. 20036

Mr. John G. Reed Route #1 Kingdom City, Missouri 65262 cc (cont'd):

Mr. Dan I. Bolef, President
Kay Drey, Representative
Board of Directors Coalition for
the Environment
St. Louis Region
6267 Delmar Boulevard
University City, Missouri 63130

Mr. Donald Bollinger, Member Missourians for Safe Energy 6267 Delmar Boulevard University City, Missouri 63130

Mr. James G. Keppler U.S. Nuclear Regulatory Commission Region III 799 Roosevelt Road Glen Ellyn, Illinois 60137 Mr. R. J. Gary
Executive Vice President and
General Manager
Texas Utilities Generating Company
2001 Bryan Tower
Dallas, Texas 75201

cc: Nicholas S. Reynolds, Esq. Debevoise & Liberman 1200 Seventeenth Street, N. W. Washington, D. C. 20036

> Spencer C. Relyea, Esq. Worsham, Forsythe & Sampels 2001 Bryan Tower Dallas, Texas 75201

Mr. Homer C. Schmidt Manager - Nuclear Services Texas Utilities Services, Inc. 2001 Bryan Tower Dallas, Texas 75201

Mr. H. R. Rock Gibbs and Hill, Inc. 393 Seventh Avenue New York, New York 10001

Mr. A. T. Parker Westinghouse Electric Corporation P. O. Box 355 Pittsburgh, Pennsylvania 15230

David J. Preister Assistant Attorney General Environmental Protection Division P. O. Box 12548, Capitol Station Austin, Texas 78711

Mrs. Juanita Ellis, President Citizens Association for Sound Energy 1426 South Polk Dallas, Texas 75224 Mr. Robert G. Taylor
Resident Inspector/Comanche Peak
Nuclear Power Station
c/o U. S. Nuclear Regulatory
Commission
P. O. Box 38
Glen Rose, Texas 76043

Mr. John T. Collins U. S. NRC, Region IV 611 Ryan Plaza Drive Suite 1000 Arlington, Texas 76011 Mr. Malcolm H. Furbush Vice President - General Counsel Pacific Gas & Electric Company P. O. Box 7442 San Francisco, California 94120

cc: Philip A. Crane, Jr., Esq.
Pacific Gas & Electric Company
P. O. Box 7442
San Francisco, California 94120

Janice E. Kerr, Esq.
California Public Utilities Commission
350 McAllister Street
San Francisco, California 94102

Mr. Frederick Eissler, President Scenic Shoreline Preservation Conference, Inc. 4623 More Mesa Drive Santa Barbara, California 93105

Ms. Elizabeth Apfelberg 1415 Cozadero San Luis Obispo, CA 93401

Mr. Gordon A. Silver Ms. Sandra A. Silver 1760 Alisal Street San Luis Obispo, CA 93401

Harry M. Willis, Esq. Seymour & Willis 601 California Street, Suite 2100 San Francisco, CA 94108

Mr. Richard Hubbard MHB Technical Associates Suite K 1725 Hamilton Avenue San Jose, CA 96125

Mr. John Marrs, Managing Editor San Luis Obispo County Telegram Tribune 1321 Johnson Avenue P. O.Box 112 San Luis Obispo, CA 93406 Resident Inspector/Diablo Canyon NPS c/o U. S. Nuclear Regulatory Commission P. O. Box 369 Avila Beach, California 93424

Ms. Raye Fleming 1920 Mattie Road Shell Beach, California 93440

Joel Reynolds, Esq.
John R. Phillips, Esq.
Center for Law in the Public Interest
10951 West Pico Boulevard
Third Floor
Los Angeles, California 90064

Paul C. Valentine, Esq. 321 Lytton Avenue Palo Alto, California 94302

Mr. Byron S. Georgiou Legal Affairs Secretary Governor's Office State Capitol Sacramento, California 95814

Herbert H. Brown, Esq. Hill, Christopher & Phillips, P.C. 1900 M Street, N.W. Washington, D. C. 20036

Mr. Dick Blankenburg Editor & Co-Publisher South County Publishing Company P. O. Box 460 Arroyo Grande, California 93420

Mr. James O. Schuyler
Vice President - Nuclear Generation
Department
Pacific Gas & Electric Company
P. O. Box 7442
San Francisco, California 94120

Bruce Norton, Esq. Suite 202 3216 North 3rd Street Phoenix, Arizona 85012

Mr. W. C. Gangloff Westinghouse Electric Corporation P. O. Eox 355 Pittsburg, Pennsylvania 15230

David F. Fleischaker, Esq. P. O. Box 1178 Oklahoma City, Oklahoma 73101

Arthur C. Gehr, Esq. Snell & Wilmer 3100 Valley Center Phoenix, Arizona 85073

Mr. Owen H. Davis, Director Federal Agency Relations Pacific Gas and Electric Company 1050 17th Street, N.W. Suite 1180 Washington, D. C. 20036

Regional Administrator - Region V U.S. Nuclear Regulatory Commission 1450 Maria Lane Suite 210 Walnut Creek, California 94596

Dr. Jose Roesset 3506 Duval Road Austin, Texas 78759 Mr. Harry Tauber Vice President Engineering & Construction Detriot Edison Company 2000 Second Avenue Detroit, Michigan 48226

cc: Mr. Harry H. Voigt, Esq. LeBoeuf, Lamb, Leiby & MacRae 1333 New Hampshire Avenue, N. W. Washington, D. C. 20036

> Peter A. Marquardt, Esq. Co-Counsel The Detroit Edison Company 2000 Second Avenue Detroit, Michigan 48226

Mr. William J. Fahrner
Project Manager - Fermi 2
The Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Mr. Larry E. Schuerman Detroit Edison Company 3331 West Big Beaver Road Troy, Michigan 48084

John Minock, Esq. 305 Mapleridge Ann Arbor, Michigan 48103

Mr. Bruce Little U. S. Nuclear Regulatory Commission Resident Inspector's Office 6450 W. Dixie Highway Newport, Michigan 48166

Dr. Wayne Jens Detroit Edison Company 2000 Second Avenue Detroit, Michigan 48226

Mr. James G. Keppler
U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Mr. R. A. Thomas, Manager Offshore Power Systems P.O. Box 8000 8000 Arlington Expressway Jacksonville, Florida 32211

cc: Vincent W. Campbell, Esq.
Vice President & General Counsel
Offshore Power Systems
P.O. Box 8000
8000 Arlington Expressway
Jacksonville, Florida 32211

Thomas M. Daugherty, Esq. Offshore Power Systems P.O. Box 8000 8000 Arlington Expressway Jacksonville, Florida 32211

Barton Z. Cowan, Esq. Eckert, Seamans, Cherin & Mellott 600 Grant Street, 42nd Floor Pittsburgh, Pennsylvania 15219

David S. Fleischaker 1735 Eye Street Suite 709 Washington, D. c. 20006

Dr. Alden McLellan
Assistant Commissioner
State of New Jersey
Dept. of Environmental Protection
Labor and Industry Building
John Fitch Plaza
Trenton, New Jersey 08625

Keith A. Onsdorff, Esq. Miriam N. Span, Esq. Assistant Deputy Public Advocates 520 East State Street P.O. Box 141 Treneton, New Jersey 08625 Carl Valore, Jr., Esq.
Valore, McAllister, DeBrier,
Aron & Westmoreland
Mainland Professional Plaza
535 Tilton Road
P.O. Box 152
Northfield, New Jersey 08225

Dr. Willard W. Rosenberg 8 North Rumson Avenue Margate, New Jersey 08:02

Mr. John Williamson 211 Forest Drive Linwood, New Jersey 08221

Harold P. Green, Esq.
Fried, Frank, Harris, Shriver
and Kampelman
Suite 1000, The Watergate 600
600 New Hampshire Avenue, N.W.
Washington, D. C. 20037

Nuclear Coordinator Office of Merchant Marine Safety Commandant (GMMT-4) U.S. Coast Guard Washington, D. C. 20590

Mr. Mitchell Attalla 4028 Ponce DeLeon Avenue Jacksonville, Florida 32217

Mr. Reg Crowder Jacksonville Journal P.O. Box 1949 Jacksonville, Florida 32201 cc: Richard F. Engel
Deputy Attorney General
Department of Law and Public
Safety, CN 112
36 West State Street
Trenton, New Jersey 08625

James P. O'Reilly, Regional Administrator U.S. Nuclear Regulatory Commission, Region II 101 Marietta Street, Suite 3100 Atlanta, Georgia 30303

Mr. Thomas Jackson Vice President The Oceanic Society Magee Avenue Stamford, Connecticut 06902 Mr. J. W. Cook Vice President Consumers Power Company 1945 West Parnall Road Jackson, Michigan 49201

cc: Stewart H. Freeman
Assistant Attorney General
State of Michigan Enviornmental
Protection Division
720 Law Building
Lansing, Michigan 48913

11 × 12

Mr. Roger W. Huston Suite 220 7910 Woodmont Avenue Bethesda, Maryland 20814

Mr. R. B. Borsum Nuclear Power Generation Division Babcock & Wilcox 7910 Woodmont Avenue, Suite 220 Bethesda, Maryland 20814

Mr. Don van Farrowe, Chief Division of Radiological Health Department of Public Health P.O. Box 33035 Lansing, Michigan 48909

U.S. Nuclear Regulatory Commission Resident Inspectors Office Route 7 Midland, Michigan 48640

Mr. Paul A. Perry, Secretary Consumers Power Company 212 W. Michigan Avenue Jackson, Michigan 49201

Mr. Walt Apley c/o Mr. Max Clausen Battelle Pacific North West Labs (PNWL) Battelle Blvd. SIGMA IV Building Richland, Washington 99352

Mr. I. Charak, Manager NRC Assistance Project Argonne National Laboratory 9700 South Cass Avenue Argonne, Illinois 60439 James G. Keppler, Regional Administrator U.S. Nuclear Regulatory Commission, Region III 799 Roosevelt Road Glen Ellyn, Illinois 60137

Mr. Ron Callen Michigan Public Serviced Commission 6545 Mercantile Way P.O. Box 30221 Lansing, Michigan 48909

Mr. Paul Rau Midland Daily News 124 McDonald Street Midland, Michigan 48640

Billie Pirner Garde
Director, Citizens Clinic
for Accountable Government
Government Accountability Project
Institute for Policy Studies
1901 Que Street, N.W.
Washington, D. C. 20009

Commander, Naval Surface Weapons Center ATTN: P. C. Huang White Oak Silver Spring, Maryland 20910

Mr. L. J. Auge, Manager Facility Design Engineering Energy Technology Engineering Center P.O. Box 1449 Canoga Park, California 91304

Mr. Neil Gehring
U.S. Corps of Engineers
NCEED - T
7th Floor
477 Michigan Avenue
Detroit, Michigan 48226

Geotechnical Engineers, Inc. ATTN: Dr. Steve J. Poulos 1017 Main Street Winchester, Massachusetts 01890 Mr. Robert Dietch Vice President Southern California Edison Company 2244 Walnut Grove Avenue P. O. Box 800 Rosemead, California 91770

Mr. Gary D. Cotton Mr. Louis Bernath San Diego Gas & Electric Company 101 Ash Street San Diego, California 92112

cc: Charles R. Kocher, Esq.
James A. Beoletto, Esq.
Southern California Edison Company
2244 Walnut Grove Avenue
P. O. Box 800
Rosemead, California 91770

Orrick, Herrington & Sutcliffe ATTN: David R. Pigott, Esq. 600 Montgomery Street San Francisco, California 94111

Mr. George Caravalho City Manager City of San Clemente 100 Avenido Presidio San Clemente, California 92672

Alan R. Watts, Esq. Rourke & Woodruff Suite 1020 1055 North Main Street Santa Ana, California 92701

Lawrence Q. Garcia, Esq. California Public Utilities Commission 5066 State Building San Francisco, California 94102

Mr. V. C. Hall Combustion Engineering, Inc. 1000 Prospect Hill Road Windsor, Connecticut 06095

Mr. S. McClusky
Bechtel Power Corporation
P. O. Box 60860, Terminal Annex
Los Angeles, California 90060

Mr. Dennis F. Kirsch U.S. Nuclear Regulatory Comm. - Reg. V 1450 Maria Lane, Suite 210

Walnut Creek, California 94596

Mr. Mark Medford Southern California Edison Company 2244 Walnut Grove Avenue P. O. Box 800 Rosemead, California 91770

Mr. Henery Peters San Diego Gas & Electric Company P. O. Box 1831 San Diego, California 92112

Ms. Lyn Harris Hicks Advocate for GUARD 3908 Calle Ariana San Clemente, California 92672

Richard J. Wharton, Esq. University of San Diego School of Law Environmental Law Clinic San Diego, California 92110

Phyllis M. Gallagher, Esq. Suite 222 1695 West Crescent Avenue Anaheim, California 92701

Mr. A. S. Carstens 2071 Caminito Circulo Norte Mt. La Jolla, California 92037

Charles E. McClung, Jr., Esq. Attorney at Law 24012 Calle de la Plata/Suite 330 Laguna Hills, California 92653

Resident Inspector, San Onofre/NPS c/o U.S. Nuclear Regulatory Commission P. O. Box 4329 San Clemente, California 92672

Regional Administrator-Region V/NRC 1450 Maria Lane/Suite 210 Walnut Creek, California 94596 Mr. C. B. Brinkman Combustion Engineering, Inc. 7910 Woodmont Avenue Bethesda, Maryland 20814 Mr. E. E. Van Brunt, Jr. Vice President - Nuclear Projects Arizona Public Service Company P. O. Box 21666 Phoenix, Arizona 85036

cc: Arthur C. Gehr, Esq. Snell & Wilmer 3100 Valley Center Phoenix, Arizona 85073

> Charles S. Pierson Assistant Attorney General 200 State Capitol 1700 West Washington Phoenix, Arizona 85007

Charles R. Mocher, Esq., Assistant Counsel James A. Boeletto, Esq. Southern California Edison Company P. O. Box 800 Rosemead, California 91770

Ms. Margaret Walker Deputy Director of Energy Programs Economic Planning and Development Office 1700 West Washington Phoenix, Arizona 85007

Mr. Rand L. Greenfield Assistant Attorney General Bataan Memorial Building Santa Fe, New Mexico 87503

Resident Inspector Palo Verde/NPS U. S. Nuclear Regulatory Commission P. O. Box 21324 Phoenix, Arizona 85001

Ms. Patricia Lee Hourihan 6413 S. 26th Street Phoenix, Arizona 85040

Lynne A. Bernabei, Esq. Harmon & Weiss 1725 I Street, N. W. Suite 506 Washington, D. C. 20006 Regional Adminstrator-Region V U. S. Nuclear Regulatory Commission 1450 Maria Lane Suite 210 Walnut Creek, California 94596 50-440/441

Mr. Murray R. Edelman Vice President, Nuclear Group The Cleveland Electric Illuminating Company P. O. Box 5000 Cleveland, Ohio 44101

cc: Jay Silberg, Esq.
Shaw, Pittman, Potts & Trowbridge
1800 M Street, N. W.
Washington, D. C. 20006

Donald H. Hauser, Esq. The Cleveland Electric Illuminating Company P. O. Box 5000 Cleveland, Ohio 44101

Resident Inspector's Office U. S. Nuclear Regulatory Commission Parmly at Center Road Perry, Ohio 44081

U. S. Nuclear Regulatory Commission Mr. James G. Keppler, Regional Administrator, Region III 799 Roosevelt Road Glen Ellyn, Illinois 60137

Donald T. Ezzone, Esq.
Assistant Prosecuting Attorney
105 Main Street
Lake County Administration Center
Painesville, Ohio 44077

Daniel D. Wilt, Esq. P. O. Box 08159 Cleveland, Ohio 44108

ms. Sue Hiatt OCRE Interim Representative 8275 Munson Mentor, Ohio 44060

Terry Lodge, Esq. 915 Spitzer Building Toledo, Ohio 43604

John G. Cardinal, Esq. Prosecuting Attorney Ashtabula County Courthouse Jefferson, Ohio 44047 Mr. L. V. Maurin Vice President - Nuclear Operations Louisiana Power & Light Company 142 Delaronde Street New Orleans, Louisiana 70174

cc: W. Malcolm Stevenson, Esq.
Monroe & Lemann
1423 Whitney Building
New Orleans, Louisiana 70130

Mr. E. Blake Shaw, Pittman, Potts and Trowbridge 1800 M Street, NW Washington, DC 20036

Mr. Gary L. Groesch 2257 Bayou Road New Orleans, Louisiana 70119

Mr. F. J. Drummond
Project Manager - Nuclear
Louisiana Power & Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

Mr. D. B. Lester
Production Engineer
Louisiana Power & Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

Luke Fontana, Esq. 824 Esplanade Avenue New Orleans, Louisiana 70116

Stephen M. Irving, Esq. 535 North 6th Street Baton Rouge, Louisiana 70802

Resident Inspector/Waterford NPS P. O. Box 822 Killona, Louisiana 70066

Dr. D. C. Gibbs Middle South Service, Inc. P. O. Box 61000 New Orleans, Louisiana 70161 Regional Adminstrator-Region IV U. S. Nuclear Regulatory Commission 611 Ryan Plaza Drive Suite 1000 Arlington, Texas 76012 Mr. Earl A. Borgmann Senior Vice President Cincinnati Gas and Electric Company Post Office Box 960 Cincinnati, Ohio 45201

cc: Troy B. Conner, Jr., Esq.
Conner, Moore & Corber
1747 Pennsylvania Avenue, N. W.
Washington, D. C. 20006

Mr. William J. Moran General Counsel Cincinnati Gas & Electric Company Post Office Box 960 Cincinnati, Ohio 45201

Mr. Samuel H. Porter Porter, Wright, Morris & Arthur 37 West Broad Street Columbus, Ohio 43215

Mr. James D. Flynn, Manager Licensing Environmental Affairs Cincinnati Gas & Electric Company Post Office Box 960 Cincinnati, Ohio 45201

David Martin, Esq.
Office of the Attorney General
209 St. Clair Street
First Floor
Frankfort, Kentucky 40601

James J. Feldman, Jr., Esq. 216 East 9th Street Cincinhati, Ohio 45220

W. Peter Heile, Esq. Assistant City Solicitor Room 214, City Hall Cincinnati, Ohio 45220

John D. Woliver, Esq. Legal Aid Security Post Office Box #47 55 Kilgore Street Batavia, Ohio 45103

Mr. John E. Dolan
Vice Chairman - Engineering and
Construction
American Electric Power Company, Inc.
180 Broad Street
Columbus, Ohio 43215

Deborah Faber Webb 7967 Alexandria Pike Alexandria, Kentucky 41001

Andrew B. Dennison, Esq. 200 Main Street Batavia, Ohio 45103

George E. Pattison, Esq. Clermont County Prosecuting Attorney 462 Main Street Batavia, Ohio 45103

Mr. Waldman Christianson Resident Inspector/Zimmer RFD 1, Post Office Box 2021 U. S. Route 52 Moscow, Ohio 45153

Mr. John Youkilis
Office of the Honorable William
Gradison
United States House of Representatives
Washington, D. C. 20515

Timothy S. Hogan, Jr., Chairman Board of Commissioners 50 Market Street, Clermont County Batavia, Ohio 45103

Lawrence R. Fisse, Esq. Assistant Prosecuting Attorney 462 Main Street Batavia, Ohio 45103

Mr. James G. Keppler
U. S. NRC, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Edward R. Schweibinz U. S. NRC, Region III 799 Roosevelt Road Glen Ellyn, Illinois 60137 Mr. Steven G. Smith
The Dayton Power and Light Company
P. O. Box 1247
Dayton, Ohio 45401

Mr. James P. Fenstermaker Columbus and Southern Ohio Electric Company 215 North Front Street Columbus, Ohio 43215 Mr. M. S. Pollock Vice President - Nuclear Long Island Lighting Company 175 East Old Country Road Hicksville, New York 11801

cc: Howard L. Blau, Esquire
Blau and Cohn, PC.
217 Newbridge Road
Hicksville, New York 11801

Mr. Jay Dunkleberger New York State Energy Office Agency Building 2 Empire State Plaza Albany, New York 12223

Energy Research Group, Inc. 400-1 Totten Pond Road Waltham, Massachusetts 02154

Mr. Jeff Smith Shoreham Nuclear Power Station Post Office Box 618 Wading River, New York 11792

W. Taylor Reveley, III, Esquire Hunton & Williams Post Office Box 1535 Richmond, Virginia 23212

Ralph Shapiro, Esquire Cammer & Shapiro 9 East 40th Street New York, New York 10016

Mr. Brian McCaffrey Long Island Lighting Company 175 E. Old Country Road Hicksville, New York 11801

Honorable Peter Cohalan Suffolk County Executive County Executive/Legislative Bldg. Veteran's Memorial Highway Hauppauge, New York 11788

David Gilmartin, Esquire Suffolk County Attorney County Executive/Legislative Bldg. Veteran's Memorial Highway Hauppauge, New York 11788 MHB Technical Associates 1723 Hamilton Avenue, Suite K San Jose, California 95125

Stephen Latham, Esquire Twomey, Latham & Shea Post Office Box 398 33 West Second Street Riverhead, New York 11901

Matthew J. Kelly, Esquire Staff Counsel New York State Public Service Commission Three Rockefeller Plaza Albany, New York 12223

Ezra I. Bialik, Esquire Assistant Attorney General Environmental Protection Bureau New York State Department of Law 2 World Trade Center New York, New York 10047

Resident Inspector Shoreham NPS, U.S. NRC Post Office Box B Rocky Point, New York 11778

Herbert H. Brown, Esquire Kirkpatrick, Lockhart, Hill, Christopher & Phillips 1900 M Street, N.W. Washington, D.C. 20036

Lawrence Coe Lanpher, Esquire Kirkpatrick, Lockhart, Hill, Christopher & Phillips 1900 M Street, N.W. Washington, D.C. 20036

Karla J. Letsche, Esquire Kirkpatrick, Lockhart, Hill, Christopher & Phillips 1900 M Street, N.W. Washington, D.C. 20036 Lawrence Brenner, Esq.
Administrative Judge
Atomic Safety & Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. James L. Carpenter
Administrative Judge
Atomic Safety & Licensing Board
U. S. Nuclear Regulatory Coimmission
Washington, D. C. 20555

Dr. Peter A. Morris
Administrative Judge
Atomic Safety & Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SSINS No.: 6820 OMB No.: 3150-00012 Expiration Date: 04/30/85 IEB 83-01

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

February 25, 1983

IE BULLETIN NO. 83-01: FAILURE OF REACTOR TRIP BREAKERS (WESTINGHOUSE DB-50)

## Addressees:

All pressurized water nuclear power reactor facilities holding an operating license (OL) for action and to other nuclear power reactor facilities for information.

## Purpose:

The purpose of this bulletin is to inform CP holders and licensees about recent failures of  $\underline{W}$  DB type circuit breakers to trip open on receipt of an automatic trip signal from the reactor protection system (RPS) and to require action of all operating pressurized water reactors to assure proper operation of those breakers in the future.

# Description of Circumstances:

On February 25, 1983, during startup of the Salem Unit 1 plant, both DB-50 RPS breakers failed to open automatically upon receipt of a valid trip signal on low-low steam generator level.

This failure to trip has been attributed to sticking of the undervoltage trip attachment. The reactor was tripped manually from the control room about 30 seconds after the automatic trip signal was generated. The manually initiated trip was accomplished by the shunt relays installed in each DB-50 breaker.

# Background:

In some reactor protection system designs, the automatic protection signals are fed only to the undervoltage (UV) trip attachment of the reactor trip breakers; the manual signals are fed both to the UV trip and to a shunt trip coil of each breaker.

In the recent past, on two separate occasions, one RPS breaker at the Salem facility failed to open automatically due to binding of the UV trip attachment. These events have been reported in LER's 82-072/03X-1 and 83-001/03L. In addition, on February 22, 1983, Salem Unit 1 tripped on low-low steam generator level; however, since the operator manually tripped the reactor at a time almost coincidental with the automatic trip signal, the actual trip mechanism (manual or automatic) cannot be ascertained.

Similar failures involving the UV trip attachment to the RPS have been reported to the NRC. Trase failures only involved one of the two series breakers, therefore they did not result in a failure to automatically trip the reactor. Said failures have occurred at H. B. Robinson, Connecticut Yankee, Prairie Island and St. Lucie in addition to those at Salem. As a result of these events, the NRC issued IE Bulletin No. 71-02 and IE Circular No. 81-12, and Westinghouse issued Technical Bulletin No. NSD-78-74-1 dated January 11, 1974 and NSD Data Letter 74-2 dated February 14, 1974.

# Required Actions for All Holders of Operating Licenses for Pressurized Water Reactors:

Licensees with  $\underline{\mathtt{W}}$  DB type breakers using undervoltage trip attachment in Reactor Protective System applications are requested to:

- Perform surveillance test of undervoltage trip function independent of the shunt trip within 24 hours of receipt of this Bulletin unless equivalent testing has been performed within 5 days. Those plants for which on-line testability is not provided may complete this item before resuming operation or if currently operating, at the next plant shutdown.
- 2. Review the maintenance program for conformance to recommended <u>W</u> program (attachment) including frequency and lubricant applied to trip mechanism. Verify actual implementation of the <u>W</u> program. If maintenance including lubrication does not conform, initiate such maintenance within 5 days of receipt of this bulletin or provide an alternate maintenance program. Repeat the testing required in item 1 prior to declaring the breaker OPERABLE.
- 3. Notify all licensed operators of the failure-to-trip event which occurred at Salem. Review the approportate emergency operating procedures for the event of failure-to-trip with each operator upon his arrival on-shift.
- 4. Provide written reply within 7 days of receipt of this bulletin,
  - a. identifying results of testing performed in response to item 1,
  - b. identifying conformance of maintenance program to  $\underline{W}$  recommendation and describing results of maintenance performed directly as a result of tris Bulletin in response to item 2,
  - c. provide statement that provisions are in place to notify licensed operators of the Salem event and bring to their attention appropriate failure-to-trip emergency procedures upon their arrival on-shift.
  - d. You are reminded of the requirements for prompt notification in accordance with 10 CFR 50.72 in the event of detecting an inoperable RPS breaker.

PWR Licensees not using the subject undervoltage trip attachment and therefore not affected by this bulletin shall submit a negative declaration within 7 days of the receipt of this bulletin.

The written report required shall be submitted to the appropriate Regional Administrator under oath or affirmation under provisions of Section 182a, Atomic Energy Act of 1954, as amended. The original copy of the cover letters and a copy of the reports shall be transmitted to the U. S. Nuclear Regulatory. Commission, Document Control Desk, Washington, D.C. 20555 for reproduction and distribution.

This request for information was approved by the Office of Management and Budget under a blanket clearance number 3150-00012 which expires April 30, 1985. Comments on burden and duplication may be directed to the Office of Management and Budget, Reports Management, Room 3208, New Executive Office Building, Washington, D.C. 20503.

If you have any questions regarding this matter, please contact the Regional Administrator of the NRC Regional Office or the technical contact listed below.

Original signed by E. L. Jordan

Richard C. DeYoung, Director Office of Inspection and Enforcement

Technical Contact: I. Villalva, IE

301-492-9635

V. Thomas, IE 301-492-4755

J. T. Beard, NRR 301-492-7465

#### Attachment:

1. Transcription of Westinghouse NSD Ltr. 74-2

2. List of Recently Issued IE Bulletins

ATTACHMENT 1 IEB 83-01 February 25, 1983

Wertatim transcription of Westinghouse NSD letter 74-2. Original signed by W. H. Furfari and Sydney G. Caslake.

FROM : Nuclear Service Division

WIN : 236-4744

DATE : February 19, 1974 SUBJECT: Reactor Trip Breaker

Maintenance

## NUCLEAR ENERGY SYSTEMS

TO: Distribution

Technical Bulletin NSD-TB-74-1 (issued 1/11/74) described a reactor trip breaker malfunction which occurred at H. B. Robinson station in December of 1973, and recommended certain additional periodic maintenance measures to improve the reliability of these breakers.

The malfunction (failure to trip during a regularly scheduled periodic test) was attributed to excessive friction in the linkage of the Undervoltage Trip Attachment, which is the device that initiates the breaker drop-open action by elevating the trip bar. The problem was corrected by cleaning and lightly lubricating certain portions of the linkage.

To preclude the possibility of reoccurrence of this malfunction, Westing-house recommends that the reactor trip breakers be given regularly scheduled periodic inspection/maintenance as described in the Instruction Manual and in line with the following guidelines.

- 1. Scope. These recommendations are intended to apply to Westinghouse DB-50 (or DB-25) breakers in Reactor Trip applications. Some future WNES plants will be supplied with Westinghouse Type DS (stored energy) breakers, which should be maintained in accordance with their instruction manual.
- 2. Related Operations. It is expected that these inspection and maintenance measures would normally be carried out in conjunction with breaker periodic operational testing or during plant shutdowns. However, these recommendations in no way are intended to supersede breaker operational testing commitments and requirements.
- 3. Frequency. Intervals between maintenance will be influenced by operating and atmospheric conditions, but we would recommend that initially it be performed on a semi-annual basis. The period might then be extended to 9 or 12 months if experience shows this to be sufficient.

- 4. Cleaning. Clean the entire unit by blowing with dry instrument air (or a hand bellows), followed by vacuum cleaning. Particular attention should be paid to the cleanness of the undervoltage trip device, which can be inspected without component disassembly.
- 5. Solvents. In general, the use of a cleaning solvent is not encouraged since some can be damaging to electrical components. If there is a particularly heavy deposit of contaminants, an inert or mild solvent such as Stoddard solvent could be used if applied sparingly.
- 6. Lubricants. Although the Instruction Manual (page 5) cautions against any re-lubrication in the field, the manufacturers have agreed that the reliability of the breaker is improved by lightly lubricating the linkage of the undervoltage device occasionally. However, the lubricant should be applied only sparingly to the front and back faces of the vertical-traveling latch (interracing with the flat copper-alloy spring).

A dry or near-dry molybdenum disulfide lubricant should be used. Technical Bulletin NSD-TB-74-1 indicated Molykote G as a possible choice. That information is incorrect and is hereby rescinded Molykote G uses a thickened mineral oil as a vehicle, which would tend to collect foreign material. A better choice would be Molykote M-88, or Spray-kote. Both are commercially available Dow Corning products.

7. Inspection. Following the above cleaning and lubrication the entire breaker should be operationally checked and inspected for broken parts, loose bolts or excessive wear.

This Date Letter and the above information supersedes Technical Bulletin NSD-TE-74-1, which is hereby cancelled.

W. H. Furfari Electric Technology TECHNICAL OPERATIONS

APPROVED: Syndey G. Caslake, Manager Electric Technology TECHNICAL OPERATIONS

# LIST OF RECENTLY ISSUED IE BULLETINS

Bulletin	Cubicat	Date of Issue	Issued to
No.	Subject	15506	133464 60
83-04	Deficiencies in Primary Con- tainment Electrical Pene- tration Assemblies	12/03/82	All power reactor facilities holding an OL or CP
82-03 Rev. 1	Stress Corrosion Cracking in Thick-Wall Large-Diameter Stainless Steel, Recircula- tion System Piping at BWR Plants	10/28/82	Operating BWRs in Table 1 for action and other OLs and CPs for information
82-03	Stress Corrosion Cracking in Thick-Wall Large-Diameter, Stainless Steel, Recircula- tion System Piping at BWR Plants	10/14/82	Operating BWRs in Table 1 for action and other OLs and CPs for information
82-01 Rev 1, Supp 1	Alteration of Radiographs of Welds in Piping Subassemblies	08/18/82	All power reactor facilities with an OL or CP
82-02	Degradation of Threaded Fasteners in the Reactor Coolant Pressure Boundary of PWR plants	06/02/82	All PWR facilities with an OL for action and all other OLs or CPs for information
82-01 Rev. 1	Alteration of Radiographs of Welds in Piping Subassemblies	05/07/82	All power reactor facilities with an OL or CP
82-01	Alteration of Radiographs of Welds in Piping Subassemblies	03/31/82	The Table 1 facilities for action and to all others for information
81-02 Supplement	Failure of Gate Type Valves to Close against Differential Pressure	08/18/81	All power reactor facilities with an OL or CP
81-03	Flow Blockage of Cooling Water To Safety System Components by CORBICULA SP. (ASIATIC CLAM) and MYTILUS SP. (MUSSEL)	04/10/81	All power reactor facilities with an OL or CP

OL = Operating License CP = Construction Permit

DIS No: 50272830225 Diti: February 25, 1983

# PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE-PNO-I-83-11

This preliminary notification constitutes EARLY not or of events of POSSIBLE safety or public interest significance. The information is a initially received without verification or evaluation, and is basically all that is known by the Region I staff on this date.

Facility: Public Service Ele Salen Unit 1 (CN 50-272)	ctric & Gas Comp	<u> </u>	Notification Alert Site Area - General Emer	on of Unusua Emergency ergency	ication:
Subject: REACTOR TRIP BREAK	ERS FAILED TO OP	EN ON TILI	SIGNAL (ATV	(S)	
At 12:21 AM on February 25, generator signal initiated a until operators initiated a breakers opened as designed, undervoltage trip attachment excessive friction. A paral successful in opening the brand terminated at 2:00 AM. nalfunction. The plant is because of the failure of the without NRC consultation.	manual trip about tripping the rest in both reactor lel shunt trip at eaker. An ALERT A Westinghouse reging maintained	gnal. lo t 30 secon actor. L r trip in ttachmer t was be a epresenta-	ds later. A censee inves akers had fa actuated by edly declare ive is on si	that time tigation di liled to act manual screed by the lite, to anai	the trip sclosed that the tuate due to tam, was censee at 1 30 yze the
The NRC was notified of this followup on this event and d	event via ENS at	t 1:46 /M implicat	on February	25, 1983.	The NRC w-1
The licensee does not plan a	press release.	NRC w1 1	respond to i	nquirtes.	
The State of New Jersey has I	been notified.			2	
CONTACT: R. Summers 8-609-935-3850	R. Jacobs 488-1222	L. r 488 1;			
				*	
Comm. Asselstine	7 9	E/W IE OIA AEOD	Willste NMSS RES	Mail ADM DOT	:DMB :Trans on y
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Region I Form 83					

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DOS No: 50272830228 Date: February 25, 1983.

# PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-I-83-114

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region I staff on this date.

Public Service Salem, Unit 1 (DN 50-272)	Electric & Gas Co.	Licensee Emergency Classification:  Notification of Unusual Event  X Alert  Site Area Emergency  General Emergency  Not Applicable
		Not Applicable

Subject: REACTOR TRIP BREAKERS FAILED TO OPEN ON TRIP SIGNAL (ATMS)

The failure of the breakers to open was due to a malfunction of the mechanical latch associated with the undervoltage (UV) relay in the DB-50 reactor trip breakers (2). Within approximately 2 hours, PSE&G technicians verified that the solid state protection system had functioned properly, and that the UV coil was deenergized (the tripped condition) during subsequent testing. However, when the UV coil was deenergized the "A" trip breaker failed to trip 2 out of 3 times and the "B" trip preaker failed to trip at all (3 attempts).

The cause of the failure was binding in the vertical latch bar of the UV trip strachment due to excessive friction. The breaker can be tripped 3 ways: (1) UV relay. (2) a shunt trip attachment: and (3) manually, at the breaker. The UV relay trips on either the reactor protection system signal or a manual scram signal from the control room. The latter signal also excercises the shunt trip attachment. The preakers can also be operated individually by push button from the control room which actuates the shunt trip attachment.

The plant is proceeding to Mode 5 pending completion of the investigation of this tatter.

	CONTACT: R. Summer 8-609-935	s R. Jac 1-3850 488-12			
	CISTRUBUTION: St Chairman Pallacino Comm. Gilinsky Comm. Ahearne Comm. Roberts Comm. Asselstine	EDD NRR PA MPA ELD	THEO	Willste NMSS RES	Mail: ADM: DMB DOT: Tran
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