



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

SEP 26 1983

MEMORANDUM FOR: Darrell Eisenhut, Director
Division of Licensing

FROM: Roger J. Mattson, Director
Division of Systems Integration

SUBJECT: BOARD NOTIFICATION

The purpose of this memorandum is to request that you notify the PWR hearing boards associated with Westinghouse-designed plants of information we have received regarding the revision of the ECCS actuation logic to the pre-TMI accident configuration in the Borssele Nuclear Power Plant. We believe this information is relevant and material in that the revision is not consistent with the current method being used on plants designed by Westinghouse currently being considered for licenses.

Background: The TMI-2 accident was in part caused by misinterpretation by the operators of the primary coolant inventory measurement. Specifically, the stuck-open PORV caused primary coolant to flow from the main coolant system into the pressurizer, falsely indicating to the operators that the primary system was liquid full. Since Westinghouse designed plants had an ECCS actuation logic which required coincident signals of low pressurizer level and low pressurizer pressure, it was concluded by Westinghouse that for a stuck open PORV event, the ECCS would not be actuated by the coincident logic, since the low pressurizer level signal might not occur. To correct this, licensees with Westinghouse plants eliminated the coincidence requirement by eliminating the low pressurizer level trip. Thus, ECCS would be actuated on low pressurizer pressure only.

Recent Information: On September 12, 1983 the Office of International Programs distributed to DSI and other offices a proprietary report received from the Nuclear Department of the Netherlands Ministry of Social Affairs regarding a revision to the ECCS trip logic at the Borssele Nuclear Power Plant. The revision was to restore the coincidence trip for ECCS actuation. The basis for this was the management of the steam generator tube rupture (SGTR) accident. For a SGTR accident, ECCS actuation was calculated to occur if based on low pressurizer pressure alone. The actuation of the ECCS for a SGTR was believed to produce undesirable attendant problems, such as RCP trip and containment isolation, which would make accident management more difficult. It was also believed that with coincident low pressurizer pressure and level, an ECCS actuation would not occur, making the SGTR

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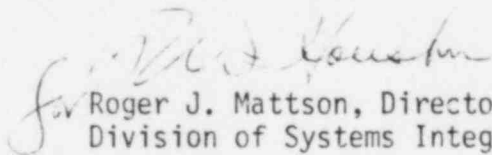
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accident management easier. The report stated that the ECCS actuation for PORV LOCAs would be accomplished manually by the operator, and backed up by the automatic coincident low RCS pressure/level actuation signal.

Impact: The revision to the ECCS actuation logic, if applied to Westinghouse-designed plants, has the potential to improve the manageability of SGTR events. However, there may be an attendant increase in risk due to small LOCAs caused by stuck-open PORVs. The staff cannot conclude from the information provided whether the ECCS actuation logic revision would have an overall net increase or decrease in plant risk.

Proposed Course of Action: We intend to contact the Westinghouse Owners Group and request that they voluntarily evaluate the relative benefits/detriments of the revision in conjunction with their current efforts to determine reactor coolant pump trip criteria. This is because one of the major goals of this effort is to assure that SGTRs are distinguishable from small LOCAs so to prevent pump trip for SGTRs. If this effort is not fruitful, we will ask each license applicant to address the issue on its docket. Operating reactors will be treated in the normal manner, in that the safety significance will be assessed and the issue prioritized with resource expenditure for resolution commensurate with the prioritization results.

We will keep the boards informed of the resolution plan for this issue once it is finalized. A copy of the Borssele report is enclosed for background. Please note that it is classified proprietary and should be treated and handled in accordance with the applicable regulations for proprietary information.


for Roger J. Mattson, Director
Division of Systems Integration

cc: w/o enclosure
H. Denton
E. Case
T. Speis
H. Thompson
R. Vollmer
D. Ross, RES
L. Rubenstein
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P. Boehnert, ACRS

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Mr. John D. O'Toole
Consolidated Edison Company of New York, Inc.

Indian Point 2

cc: Mayor, Village of Buchanan
236 Tate Avenue
Buchanan, New York 10511

Joseph D. Block, Esquire
Executive Vice President
Administrative
Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York, New York 10003

Robert L. Spring
Nuclear Licensing Engineer
Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York, New York 10003

Ms. Ellyn Weiss
Sheldon, Harmon and Weiss
1725 I Street, N.W., Suite 506
Washington, D. C. 20006

Senior Resident Inspector
U. S. Nuclear Regulatory Commission
P.O. Box 38
Buchanan, New York 10511

Brent L. Brandenburg
Assistant General Counsel
Consolidated Edison Company
of New York, Inc.
4 Irving Place - 1822
New York, New York 10003

Regional Administrator - Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Carl R. D'Alvia, Esquire
Attorney for the Village of
Buchanan, New York
395 South Riverside Avenue
Croton-on-Hudson, New York 10520

Regional Radiation Representatives
EPA Region II
26 Federal Plaza
New York, New York 10007

Director, Technical Development
Programs
State of New York Energy Office
Agency Building 2
Empire State Plaza
Albany, New York 12223

Dr. Lawrence R. Quarles
Apartment 51
Kendal at Longwood
Kennett Square, Pennsylvania 19348

Thomas J. Farrelly, Esquire
Law Department
Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York, New York 10003

Mr. John D. O'Toole
Consolidated Edison Company of New York, Inc.

cc: Mr. Charles W. Jackson
Vice President, Nuclear Power
Consolidated Edison Company
of New York, Inc.
Broadway and Bleakley Avenues
Buchanan, New York 10511

Mr. M. Blatt
Director, Regulatory Affairs
Consolidated Edison Company
of New York, Inc.
Broadway and Bleakley Avenues
Buchanan, New York 10511

Mr. Frank Matra
Resident Construction Manager
Consolidated Edison Company
of New York, Inc.
Broadway and Bleakley Avenues
Buchanan, New York 10511

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

Mr. J. P. Bayne
Power Authority of the State of New York

cc: Mr. John C. Brons
Indian Point 3 Nuclear Power Plant
P.O. Box 215
Buchanan, New York 10511

Mr. Charles M. Pratt
Assistant General Counsel
Power Authority of the State
of New York
10 Columbus Circle
New York, New York 10019

Ms. Ellyn Weiss
Sheldon, Harmon and Weiss
1725 I Street, N.W., Suite 506
Washington, D. C. 20006

Dr.nce R. Quarles
Apartment
Kendal at Leod
Kennett Square,nsylvania 19348

Mr. George M. Wilverding, Manager
Nuclear Safety Evaluation
Power Authority of the
State of New York
123 Main Street
White Plains, New York 10601

Director, Technical Development
Programs
State of New York Energy Office
Agency Building 2
Empire State Plaza
Albany, New York 12223

Honorable George Begany
Mayor, Village of Buchanan
236 Tate Avenue
Buchanan, New York 10511

Mr. Leroy W. Sinclair
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

Resident Inspector
Indian Point Nuclear Generating
U. S. Nuclear Regulatory Commission
P.O. Box 66
Buchanan, New York 10511

Thomas J. Farrelly, Esquire
Law Department
Consolidated Edison Company of
New York, Inc.
4 Irving Place
New York, New York 10003

Mr. A. Klausmann, Vice President
Quality Assurance
Power Authority of the State
of New York
10 Columbus Circle
New York, New York 10019

Regional Radiation Representative
EPA Region II
26 Federal Plaza
New York, New York 10007

Mr. D. Halama
Quality Assurance Superintendent
Indian Point 3 Nuclear Power Plant
Post Office Box 215
Buchanan, New York 10511

Indian Point 3

Mr. J. P. Bayne
Power Authority of the State of New York

cc: S. S. Zulla, Vice President
Nuclear Support
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

Regional Administrator - Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

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

P. Kokolakis, Director
Nuclear Licensing
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

Mr. Dennis L. Farrar
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 & 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 Forney
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
 Women Voters of University City, MO
 7065 Pershing Avenue
 University City, Missouri 63130

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
 1025 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. D. F. Schnell

- 2 -

cc (cont'd):

Mr. John G. Reed
Route #1
Kingdom City, Missouri 65262

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

CATAWBA

Mr. H. B. Tucker, Vice President
Nuclear Production Dept.
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

cc: William L. Porter, Esq.
Duke Power Company
P.O. Box 33189
Charlotte, North Carolina 28242

J. Michael McGarry, III, Esq.
Debevoise & Liberman
1200 Seventeenth Street, N.W.
Washington, D. C. 20036

North Carolina MPA-1
P.O. Box 95162
Raleigh, North Carolina 27625

Mr. F. J. Twogood
Power Systems Division
Westinghouse Electric Corp.
P.O. Box 355
Pittsburgh, Pennsylvania 15230

Mr. J. C. Plunkett, Jr.
NUS Corporation
2530 Countryside Boulevard
Clearwater, Florida 33515

Mr. Jesse L. Riley, President
Carolina Environmental Study Group
854 Henley Place
Charlotte, North Carolina 28208

Richard P. Wilson, Esq.
Assistant Attorney General
S.C. Attorney General's Office
P.O. Box 11549
Columbia, South Carolina 29211

Mr. Pierce K. Skinner
Route 2, Box 179N
York, South Carolina 29745

North Carolina Electric Membership
Corp.
3333 North Boulevard
P.O. Box 27306
Raleigh, North Carolina 27611

Saluda River Electric Cooperative,
Inc.
207 Sherwood Drive
Laurens, South Carolina 29360

Mr. Peter K. VanDoorn
Route 2, Box 179N
York, South Carolina 29745

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

Robert Guild, Esq.
P.O. Box 12097
Charleston, South Carolina 29412

Palmetto Alliance
2135 1/2 Devine Street
Columbia, South Carolina 29205

Carol F. Kagan, Attorney
Atomic Safety and Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

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. Larry Alan Sinkin
838 East Magnolia Avenue
San Antonio, Texas 78212

Mr. Robert J. Harrison
President and Chief Executive Officer
Public Service Company of New Hampshire
Post Office Box 330
Manchester, New Hampshire 03105

cc: Thomas Dignan, Esq.
John A. Ritscher, Esq.
Ropes and Gray
225 Franklin Street
Boston, Massachusetts 02110

Mr. Bruce B. Beckley, Project Manager
Public Service Company of New Hampshire
Post Office Box 330
Manchester, New Hampshire 03105

Dr. Mauray Tye, President
Sun Valley Association
209 Summer Street
Haverhill, Massachusetts 01839

Robert A. Backus, Esq.
O'Niell, Backus and Spielman
116 Lowell Street
Manchester, New Hampshire 03105

Ms. Beverly A. Hollingworth
7 A Street
Hampton Beach, New Hampshire 03842

Diane Curran, Esq.
Harmon and Weiss
1725 I Street, N. W.
Washington, D. C. 20006

Jo Ann Shotwell, Esq.
Office of the Assistant Attorney General
Environmental Protection Division
One Ashburton Place
Boston, Massachusetts 02108

D. Pierre G. Cameron, Jr., Esq.
General Counsel
Public Service Company of New Hampshire
Post Office Box 330
Manchester, New Hampshire 03105

Regional Administrator - Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Mr. Calvin A. Canney, City Manager
City Hall
126 Daniel Street
Portsmouth, New Hampshire 03801

E. Tupper Kinder, Esq.
G. Dana Bisbee, Esq.
Assistant Attorney General
Office of Attorney General
208 State House Annex
Concord, New Hampshire 03301

Resident Inspector
Seabrook Nuclear Power Station
c/o US Nuclear Regulatory Commission
Post Office Box 700
Seabrook, New Hampshire 03874

Mr. John DeVincentis, Project Manager
Yankee Atomic Electric Company
1671 Worcester Road
Framingham, Massachusetts 01701

Mr. A. M. Ebner, Project Manager
United Engineers & Constructors
30 South 17th Street
Post Office Box 8223
Philadelphia, Pennsylvania 19101

Mr. Philip Ahrens, Esq.
Assistant Attorney General
State House, Station #6
Augusta, Maine 04333

Mr. Stephen D. Floyd
Public Service Company of New
Hampshire
Post Office Box 330
Manchester, New Hampshire 03105

Seacoast Anti-Pollution League
Ms. Jane Doughty
5 Market Street
Portsmouth, New Hampshire 03801

Mr. John B. Tanzer
Town of Hampton, New Hampshire
5 Morningside Drive
Hampton, NH 03842

Ms. Letty Hett
Town of Brentwood
RFD Dalton Road
Brentwood, New Hampshire 03833

Mr. Edward F. Meany
Town of Rye, New Hampshire
155 Washington Road
Rye, New Hampshire 03870

Ms. Roberta C. Pevear
Town of Hampton Falls, New Hampshire
Drinkwater Road
Hampton Falls, New Hampshire 03844

Ms. Sandra Gavutis
Town of Kensington, New Hampshire
RFD 1
East Kingston, New Hampshire 03827

Ms. Anne Verge, Chairman
Board of Selectmen
Town Hall
South Hampton, New Hampshire 03842

Ms. Angie Machiros, Chairman
Board of Selectmen for the Town
of Newbury
Newbury, Massachusetts 01950

Ms. Rosemary Cashman, Chairman
Board of Selectmen
Town of Amesbury, MA
Town Hall
Amesbury, Massachusetts 01913

Nicholas D. Lewis, Chairman
Energy Facility Site Evaluation Council
Mail Stop PY-11
Olympia, WA 98504

Honorable Richard E. Sullivan
Mayor, City of Newburyport
Office of the Mayor
City Hall
Newburyport, Massachusetts 01950

Mr. Donald E. Chick, Town Manager
Town of Exeter
10 Front Street
Exeter, New Hampshire 03823

Alfred V. Sargent, Chairman
Board of Selectmen
Town of Salisbury, Massachusetts 01950

Ms. Diana P. Randall
70 Collins Street
Seabrook, New Hampshire 03874

Senator Gordon J. Humphrey
U.S. Senate
Washington, D. C. 20510
(Attn: Tom Burack)

Senator Gordon J. Humphrey
1 Pillsbury St.
Concord, NH 03301
(Attn: Herb Boynton)

Mr. J. O. Schuyler, Vice President
Nuclear Power Generation
c/o Nuclear Power Generation, Licensing
Pacific Gas and Electric Company
77 Beale Street, Room 1435
San Francisco, California 94106

Philip A. Crane, Jr., Esq.
Pacific Gas & Electric Company
Post Office Box 7442
San Francisco, California 94120

Mr. Malcolm H. Furbush
Vice President - General Counsel
Pacific Gas & Electric Company
Post Office 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 US 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

Dr. William E. Cooper
Project Manager - 5511
Teledyne Engineering Services
130 Second Avenue
Waltham, Massachusetts 02254

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

Norton, Burke, Berry & French, P.C.
2002 E. Osborn Road
P. O. Box 10569
Phoenix, Arizona 85064

Mr. W. C. Gangloff
Westinghouse Electric Corporation
P. O. Box 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. Lee M. Gustafson, Director
Federal Agency Relations
Pacific Gas & Electric Company
1050 17th Street, N. W.
Suite 1180
Washington, D. C. 20036

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

Dr. Jose Roesset
3506 Duval Road
Austin, Texas 78759

Michael J. Strumwasser, Esq.
Special Council to the Attorney General
State of California
3580 Wilshire Boulevard, Suite 800
Los Angeles 90010

Mr. Thomas H. Harris
San Jose Mercury News
750 Ridder Park Drive
San Jose, California 95190

Mr. Mark Gottlieb
California Energy Commission
1111 Howe Avenue, MS 27
Sacramento, California 95825

Maurice Axelrad, Esq.
Lowenstein, Newman, Reis and Axelrad
1025 Connecticut Avenue, NW
Washington, D. C. 20036