UNITED STATES OF AMERICA

DOCKETED

NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING APPEAL BOARD 1:57

OFFICE OF SECRETARY ODCKETING & SERVICE. BRANCH

In the Matter of

PACIFIC GAS AND ELECTRIC COMPANY

(Diablo Canyon Nuclear Power Plant, Units 1 and 2)

Docket Nos. 50-275 O.L. 50-323 O.L.

JOINT INTERVENORS' THIRD SUPPLEMENTAL RESPONSE TO PGANDE'S FIRST SET OF INTERROGATORIES

REPONSE TO INTERROGATORY NO. 2:

The Joint Intervenors now intend to call as an expert witness at the reopened hearings on design quality assurance Dr. Peter Kempthorne, Assistant Professor, Department of Statistics, Harvard University. A copy of his resume is attached. He will testify regarding the applicability of statistics to verification of design generally and to the Diablo Canyon design specifically. He has not testified previously in any NPC or legal proceeding regarding such subject matters. The documents upon which he will rely include, but are not necessarily limited to, the IDVP Program Management Plans for

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Phases I and II, the IDVP Final Report, certain of the ITR's issued by the IDVP, and the general statistical literature.

DATED: September 23, 1983 Respectfully submitted,

JOEL R. REYNOLDS, ESQ.
JOHN R. PHILLIPS, ESQ.
ERIC HAVIAN, ESQ.
Center for Law in the
Public Interest
10951 W. Pico Boulevard
Los Angeles, CA 90064
(213) 470-3000

DAVID S. FLEISCHAKER, ESQ. P. O. Box 1178 Oklahoma City, OK 73101

Ву

JOEL REYNOLDS

JOHN J. FORSTER

Attorneys for Joint Intervenors
SAN LUIS OBISPO MOTHERS FOR
PEACE
SCENIC SHORELINE PRESERVATION
CONFERENCE, INC.
ECOLOGY ACTION CLUB
SANDRA SILVER
ELIZABETH APFELBERG

DR. PETER J. KEMPTHORNE

Department of Statistics Harvard University Cambridge, MA 02138 (617) 495-1605

employment 7/82-

HARVARD UNIVERSITY - DEPARTMENT OF STATISTICS

Cambridge, MA

Assistant Professor (1/83-), Instructor (7/82-12/82).

Courses: statistical inference, elementary statistics, consulting in statistics, probability theory, regression and analysis of variance, multivariate analysis.

Research: variable selection in model building, compromise decision making, theory and practice of model fitting, statistical decision theory.

Consulting: Dominican fishery project, with Dr. J. Wylie(Cornell).

9/79-6/82

UNIVERSITY OF CALIFORNIA - DEPARTMENT OF STATISTICS Ber

Berkeley, CA

Instructor: taught elementary statistics course.

Statistical consultant: consulted on a short-term basis with members of the university and local businesses.

Research assistant: programmed under Dept. of Energy contract.

Teaching assistant: led sections of courses on multivariate analysis, statistical computing, and elementary statistics.

6/81-2/82

ANALYSIS AND INFERENCE, INC.

Boston, MA

Statistical consultant: prepared the experimental design and analyzed the results of a confirmatory study on truck performance for New York City; designed and coded computer programs for a simulation of an insurance claims generation process where the number of accidents follows a Poisson regression model; developed a probability model of jury decisionmaking.

6/78-9/78

IBM - CAMBRIDGE SCIENTIFIC CENTER

Cambridge, MA

Analyst/programmer: developed techniques to extend APL to handle sparse arrays. Presented oral reports to the APL Development Group at the Yorktown Research Facility and the Cambridge Center.

education 9/79-6/82

9/79-6/82 UNIVERSITY OF CALIFORNIA

Berkeley, CA

Ph.D. in Statistics.

Thesis: Variable Selection and Parameter Estimation in Normal Linear Regression Models.

President of the Statistics Graduate Students Association.

Delegate to the Graduate Assembly.

10/78-9/79

IMPERIAL COLLEGE, UNIVERSITY OF LONDON

London, England

M.Sc. in Statistics. Thesis: An Analysis of the M.D.A. Breast Cancer Study. Diploma of Imperial College Award.

9/74-6/78

HARVARD COLLEGE

Cambridge, MA

A.B. magna cum laude in Applied Mathematics. Harvard Scholarship. Phi Beta Kappa.

References available upon request.

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NUCLEAR REGULATORY COMMISSION

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PACIFIC GAS AND ELECTRIC COMPANY)

(Diablo Canyon Nuclear Power)

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Docke Nos. 50-275 O.L. 50-323 O.L.

CERTIFICATE OF SERVICE

I hereby certify that on this 23rd day of September, 1983, I have served copies of the foregoing JOINT INTERVENORS' THIRD SUPPLEMENTAL RESPONSE TO PGandE's FIRST SET OF INTERROGATORIES, mailing them through the U.S. mails, first class, postage prepaid.

Thomas S. Moore, Chairman Atomic Safety & Licensing Appeal Board U.S. Nuclear Regulatory Commission Washington, D.C. 20555

Dr. W. Reed Johnson
Atomic Safety & Licensing
Appeal Board
U.S. Nuclear Regulatory
Commission
Washington, D.C. 20555

Dr. John H. Buck
Atomic Safety & Licensing
Appeal Board
U.S. Nuclear Regulatory
Commission
Washington, D.C. 20555

Mr. Fredrick Eissler Scenic Shoreline Preservation Conference, Inc. 4623 More Mesa Drive Santa Barbara, CA 93105

*Malcolm H. Furbush, Esq.
Vice President & General
Counsel
Philip A. Crane, Esq.
Pacific Gas & Electric Company
77 Beale Street, Room 3135
San Francisco, CA 94106

Docket and Service Branch Office of the Secretary U.S. Nuclear Regulatory Commission Washington, D.C. 20555

*Lawrence Chandler, Esq.
Office of the Executive Legal Director - BETH 042
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Janice E. Kerr, Esq.
Lawrence Q. Garcia, Esq.
J. Calvin Simpson, Esq.
California Public Utilities Commission
5246 McAllister Street
San Francisco, CA 94102

John Van de Kamp, Attorney General Andrea Sheridan Ordin, Chief Attorney General Michael J. Strumwasser, Special Counsel to the Attorney General State of California 3580 Wilshire Boulevard, Suite 800 Los Angeles, CA 90010

David S. Fleischaker, Esq. Post Office Box 1178 Oklahoma City, OK 73101

Richard Hubbard MHB Technical Associates 1723 Hamilton Avenue, Suite K San Jose, CA 95725

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

*Bruce Norton, Esq.
Norton, Burke, Berry & French, P.C.
2002 E. Osborn
Phoenix, AZ 85016

Maurice Axelrad, Esq. Lowenstein, Newman, Reis & Axelrad, P.C. 1025 Connecticut Avenue, N.W. Washington, D.C. 20036

Virginia and Gordon Bruno Pecho Ranch Post Office Box 6289 Los Osos, CA 93402 Sandra and Gordon Silver 1760 Alisal Street San Luis Obispo, CA 93401

Nancy Culver 192 Luneta San Luis Obispo, CA 93402

Carl Neiburger Telegram Tribune Post Office Box 112 San Luis Obispo, CA 93402

Betsy Umhoffer 1493 Southwood San Luis Obispo, CA 93401

Amanda Varona

^{*} Delivered via Express Mail