



99901227

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

ABB Impell Corporation
Mr. John McCarthy, Corporate QA Manager
5000 Executive Parkway
San Ramon, California 94583

Dear Mr. McCarthy:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

The U.S. Nuclear Regulatory Commission (NRC) has received several notifications from Boeing Computer Services (BCS) regarding errors that have been reported to them by their software suppliers that affect analytical results obtained from computer programs such as GTSTRUDL, ANSYS, and NUPIPE-II. The latter computer programs, we understand, have been used in the design and analysis of structures and piping systems for nuclear power plants. BCS states that its business is to make these computer programs available to architect-engineering firms, consultants, and licensees of nuclear plants for their use as designers and it is unaware of the specific application they are used for and the significance to safety of the end product. Therefore, consistent with the requirements of 10 CFR Part 21, "Reporting of Defects and Noncompliance," BCS has forwarded this error information to their customers so that they will be aware of the errors and can evaluate their significance to safety. This error information was also provided to the NRC.

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As a part of the NRC's effort to review the disposition of the error notices, it may be appropriate to examine the users records directly. In this regard, therefore, it is requested that your records be maintained conveniently available for the immediate future to permit staff inspection as the need is identified.

9401030217 931216
PDR GA999 EECIMPEL
99901227 PDR

290121 002079

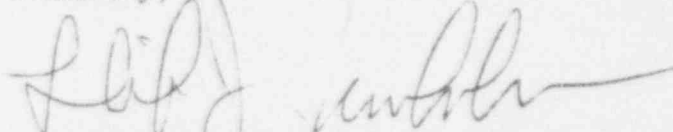
99901227

Mr. John McCarthy

-2-

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Sincerely,



Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log

ECB

*The complete package please ensure
that the remains together under
Vendor No. 99901227.*



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

URS/John A. Blume & Associates
130 Jessie Street
San Francisco, California 94105

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

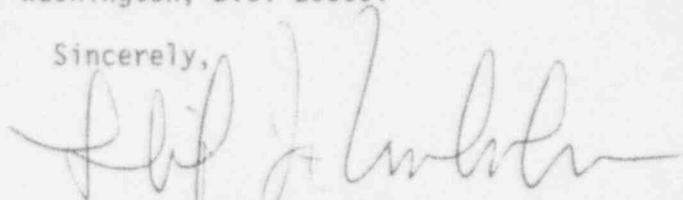
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Sincerely,

A handwritten signature in dark ink, appearing to read "Leif J. Norrholm", is written over a horizontal line.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Aptech Engineering Services, Inc.
Dr. Stephen M. Kohan
P. O. Box 3440
Sunnyvale, California 94088

Dear Dr. Kohan:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

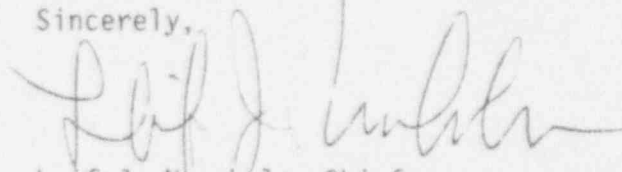
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A handwritten signature in dark ink, appearing to read "Leif J. Norrholm", written in a cursive style.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Mercedes Dumiao
(M/S 45/34/D50)
Computer Services Library
Bechtel Corporation
P. O. Box 193965
San Francisco, California 94119-3965

Dear Sir/Ma'am:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

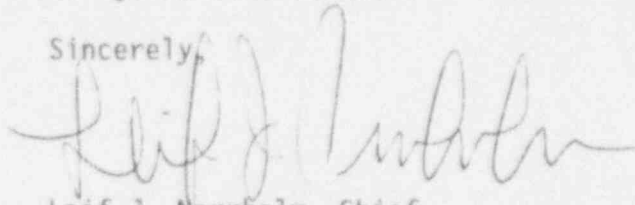
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Sincerely,

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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 99900519

Chief Civil Engineer
Bechtel Gaithersburg Office
9801 Washingtonian Boulevard
Gaithersburg, Maryland 20878-5356

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

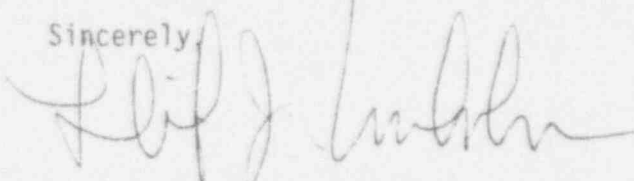
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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 99900526

Black and Veatch
M. L. Cortner
P. O. Box 8405
Kansas City, Missouri 64114

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

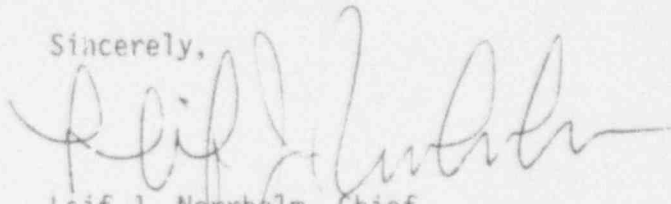
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A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', with a long horizontal flourish extending to the right.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Duquesne Light Company
W. L. Hunter M/S BV-SEB2
Nuclear Engineering Department
P. O. Box 4
Shippingport, Pennsylvania 15077

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

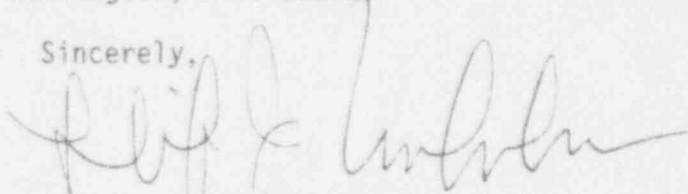
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Leif J. Norrhölm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
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Office of Nuclear Reactor Regulation

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 99900505

EBASCO Services, Inc.
Mr. R. H. Mugno
Quality Assurance Engineer
Two World Trade Center
New York, New York 10048

Dear Mr. Mugno:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

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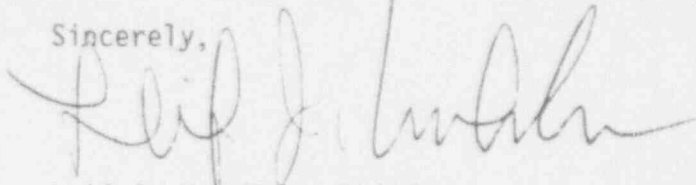
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Mr. R. H. Mugno

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

DEC 16 1993

Echo Energy Consultants, Inc.
Nancy L. Larson
Manager of Communications
1499 Franklin
Oakland, California 94612

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SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

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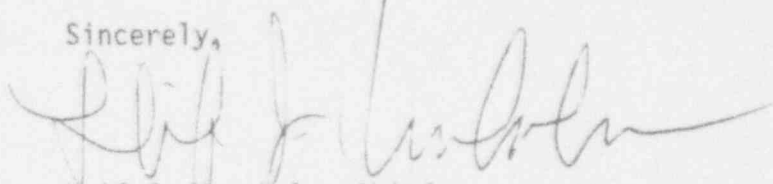
As a part of the NRC's effort to review the disposition of the error notices, it may be appropriate to examine the users records directly. In this regard, therefore, it is requested that your records be maintained conveniently available for the immediate future to permit staff inspection as the need is identified.

Ms. Nancy L. Larson

-2-

The information collection contained in this request are covered by the Office of Management and Budget clearance number 3150-0035, which expires August 31, 1995. The public reporting burden for this collection of information is estimated to average eight hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Please send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Information and Records Management Branch (MNBB-7714), U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-3019, (3150-0035), Office of Management and Budget, Washington, D.C. 20503.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', is written over a horizontal line.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

ABB Impell Corporation
Mr. John McCarthy, Corporate QA Manager
5000 Executive Parkway
San Ramon, California 94583

Dear Mr. McCarthy:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

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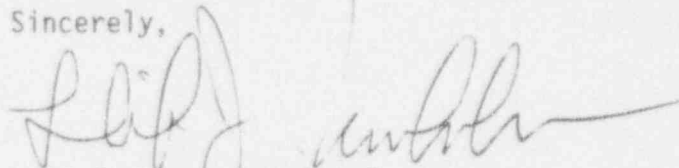
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Mr. John McCarthy

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Sincerely,

A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', is written over the typed name and title.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 99900524

Gibbs and Hill, Inc.
Edmond V. Bond
Information Resources Management Division
11 Penn Plaza
New York, New York 10001

Dear Mr. Bond:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

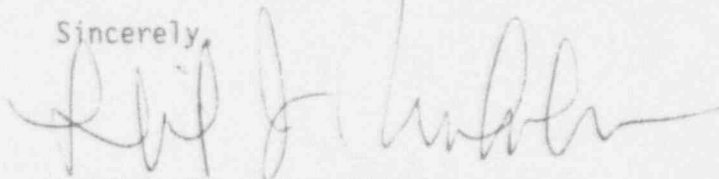
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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 99900504

Gilbert Associates, Inc.
C. A. Vath
P. O. Box 1498
Reading, Pennsylvania 19603

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

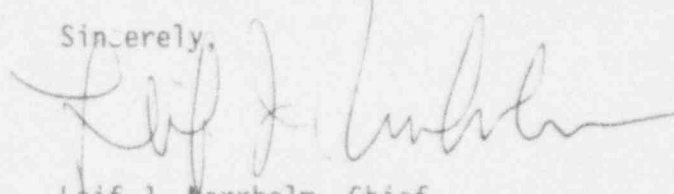
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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Holtec International
K. P. Singh, President
2060 Fairfax Avenue
Cherry Hill, New Jersey 08003-1612

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

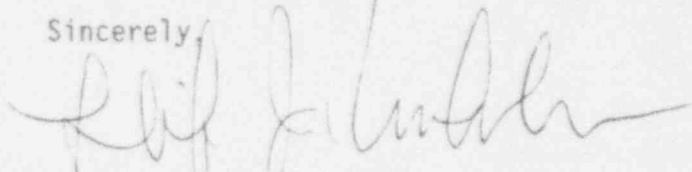
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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

DEC 16 1993

Jor Shan Choi
2324 Tulare Avenue
El Cerrito, California 94530

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

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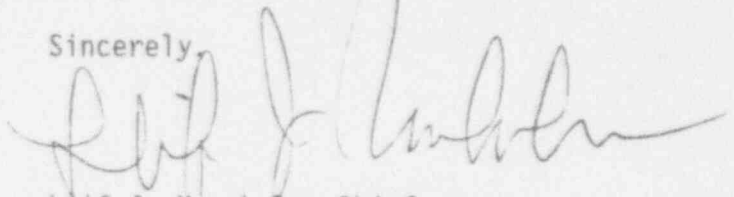
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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

New York Power Authority
James Brunetti
123 Main Street
White Plains, New York 10601

Dear Mr. Brunetti:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

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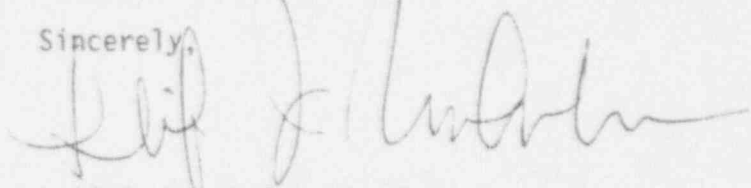
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Mr. James Brunetti

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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

GPU Nuclear Corporation
Attn: S. C. Tumminelli
Mgr. Engineering Mechanics
1 Upper Pond Road
Parsippany, New Jersey 07054

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

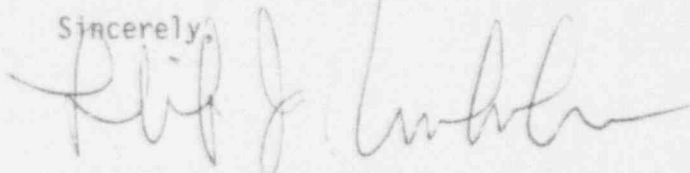
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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

New York Power Authority
John M. Hoff, Vice President
Director of Contract Administration
123 Main Street
White Plains, New York 10601

Dear Mr. Hoff:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

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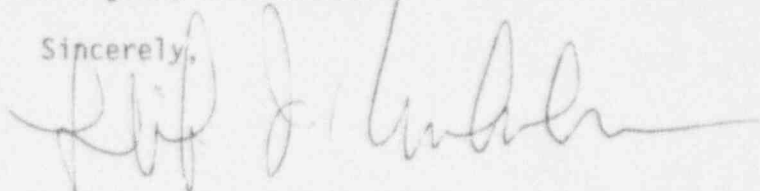
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Mr. John M. Hoff

-2-

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Sincerely,

A handwritten signature in dark ink, appearing to read "Leif J. Norrholm", is written over the typed name and title.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Nuclear Application and Systems Analysis Company
Mr. K. Takazawa
2318 Nishikanda
Chiyoda Ku
Tokyo, Japan

Dear Mr. Takazawa:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

The U.S. Nuclear Regulatory Commission (NRC) has received several notifications from Boeing Computer Services (BCS) regarding errors that have been reported to them by their software suppliers that affect analytical results obtained from computer programs such as GTSTRUDL, ANSYS, and NUPIPE-II. The latter computer programs, we understand, have been used in the design and analysis of structures and piping systems for nuclear power plants. BCS states that its business is to make these computer programs available to architect-engineering firms, consultants, and licensees of nuclear plants for their use as designers and it is unaware of the specific application they are used for and the significance to safety of the end product. Therefore, consistent with the requirements of 10 CFR Part 21, "Reporting of Defects and Noncompliance," BCS has forwarded this error information to their customers so that they will be aware of the errors and can evaluate their significance to safety. This error information was also provided to the NRC.

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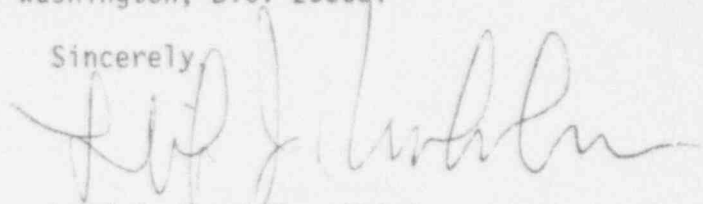
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Mr. K. Takazawa

-2-

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Sincerely,



Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Nuclear Packaging, Inc.
V. K. Cannon
1010 South 336th Street
Federal Way, Washington 98003

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

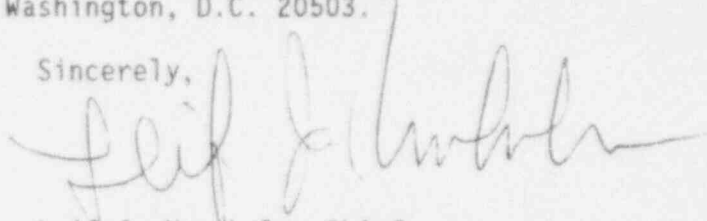
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Sincerely,

A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', written in a cursive style.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 99901050

Nutech, Inc.
J. V. Massey, Engineering Manager
145 Martindale Lane
San Jose, California 95119

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

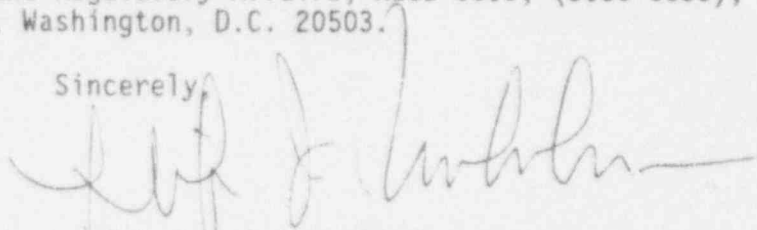
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Sincerely,

A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', with a long horizontal flourish extending to the right.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Omaha Public Power District
N. L. Firkins
1623 Harney Street
Omaha, Nebraska 68102

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

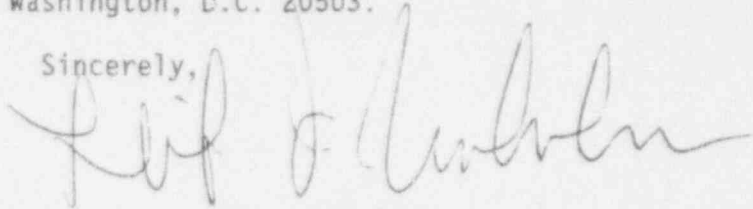
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A handwritten signature in dark ink, appearing to read "Leif J. Norrholm", written in a cursive style.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Pacific Gas and Electric Company
Engineering Construction and Computer Services
T. G. Mason
1 California Street F2439
San Francisco, California 94106

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

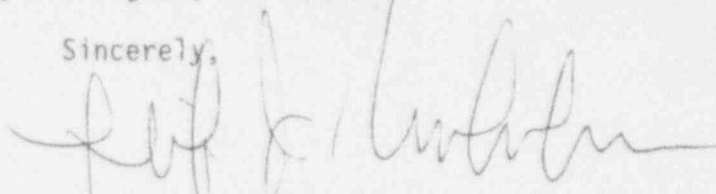
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A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', is written over a horizontal line.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Portland General Electric Company
Manager, Nuclear Plant
Engineering Dept. (TNB-1)
Trojan Nuclear Plant
71760 Columbia River Hwy.
Rainier, Oregon 97048

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

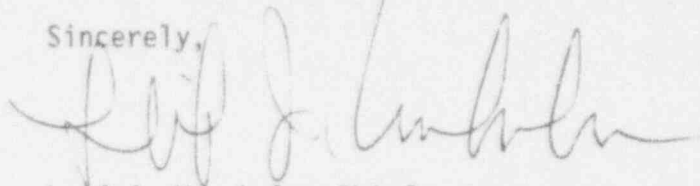
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Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555-0001

DEC 16 1993

Docket No. 030-08980

Reactor Controls, Inc.
Albert W. R. Vonstockhausen
1245 South Winchester Blvd.
San Jose, California 95128

Dear Mr. Vonstockhausen:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

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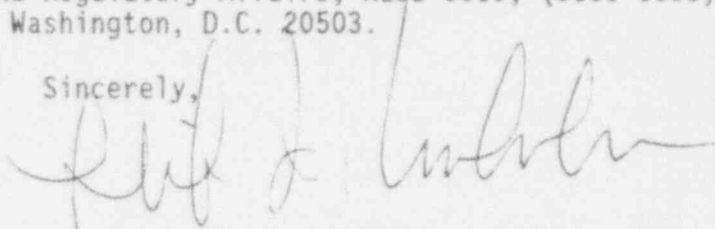
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Mr. Albert W. R. Vonstockhausen

-2-

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Sincerely,



Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 03012976

Stone and Webster Engineering Corp.
Computer Library
P. O. Box 2325
Boston, Massachusetts 02107

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

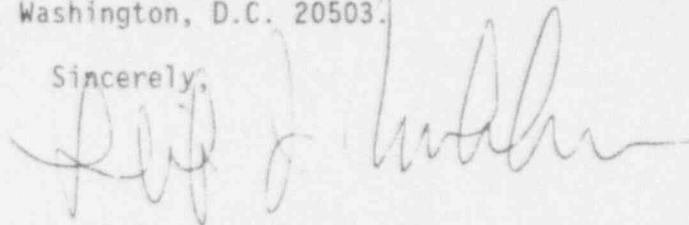
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Considering the above, the NRC is requesting by this letter a summary of your evaluations and responses to the error notices received from BCS to assess their significance to safety and their generic applicability. Your response, or a request for additional time to respond, should be received by the NRC by no later than 30 days from the date of this letter and should be addressed to: Mr. Leif J. Norrholm, Chief, Vendor Inspection Branch, Division of Reactor Inspection and Licensee Performance, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555. To assist you in your response to this request, enclosed is a recent listing of the error notices you should have received from BCS beginning in April 1991. Should you have questions regarding this listing, please contact Ms. J.M. Keithley who is the Nuclear Administrator for BCS at their Seattle, Washington offices, telephone 206-865-4438. Should you have any other questions regarding this request for information, please contact Mr. Walter P. Haass, telephone 301-504-3219.

As a part of the NRC's effort to review the disposition of the error notices, it may be appropriate to examine the users records directly. In this regard, therefore, it is requested that your records be maintained conveniently available for the immediate future to permit staff inspection as the need is identified.

The information collection contained in this request are covered by the Office of Management and Budget clearance number 3150-0035, which expires August 31, 1995. The public reporting burden for this collection of information is estimated to average eight hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Please send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Information and Records Management Branch (MNBB-7714), U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOF-3019, (3150-0035), Office of Management and Budget, Washington, D.C. 20503.

Sincerely,



Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Tenera Engineering Services
Paul Orgeron, Q. A. Manager
1995 University Avenue
Berkeley, California 94704

Dear Mr. Orgeron:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

The U.S. Nuclear Regulatory Commission (NRC) has received several notifications from Boeing Computer Services (BCS) regarding errors that have been reported to them by their software suppliers that affect analytical results obtained from computer programs such as GTSTRUDL, ANSYS, and NUPIPE-II. The latter computer programs, we understand, have been used in the design and analysis of structures and piping systems for nuclear power plants. BCS states that its business is to make these computer programs available to architect-engineering firms, consultants, and licensees of nuclear plants for their use as designers and it is unaware of the specific application they are used for and the significance to safety of the end product. Therefore, consistent with the requirements of 10 CFR Part 21, "Reporting of Defects and Noncompliance," BCS has forwarded this error information to their customers so that they will be aware of the errors and can evaluate their significance to safety. This error information was also provided to the NRC.

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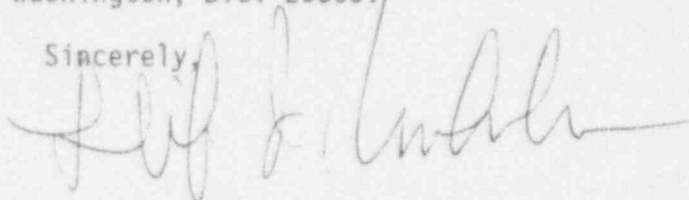
As a part of the NRC's effort to review the disposition of the error notices, it may be appropriate to examine the users records directly. In this regard, therefore, it is requested that your records be maintained conveniently available for the immediate future to permit staff inspection as the need is identified.

Mr. Paul Orgeron

-2-

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Sincerely,

A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', written over a horizontal line.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Transnuclear, Inc.
B. R. Teer, Vice President
Two Skyline Drive
Hawthorne, New York 10532

Dear Sir/Madam:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

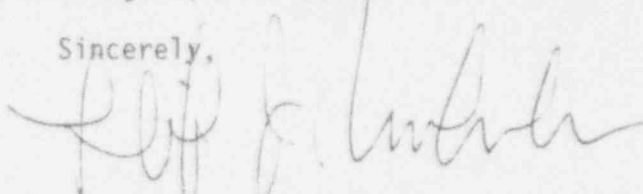
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Sincerely,

A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', is written over the typed name.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Washington Public Power Supply System
Mr. G. H. Wooley
Procurement Quality Assurance Manager MD280
P. O. Box 968
Richland, Washington 99352

Dear Mr. Wooley:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

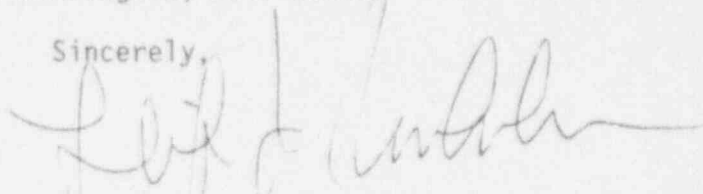
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Sincerely,

A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', is written over the typed name and title.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 99900902

Wyle Laboratories
Dave McGuiness
7800 Governors Drive West
Huntsville, Alabama 35807

Dear Mr. McGuiness:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

The U.S. Nuclear Regulatory Commission (NRC) has received several notifications from Boeing Computer Services (BCS) regarding errors that have been reported to them by their software suppliers that affect analytical results obtained from computer programs such as GTSTRUDL, ANSYS, and NUPIPE-II. The latter computer programs, we understand, have been used in the design and analysis of structures and piping systems for nuclear power plants. BCS states that its business is to make these computer programs available to architect-engineering firms, consultants, and licensees of nuclear plants for their use as designers and it is unaware of the specific application they are used for and the significance to safety of the end product. Therefore, consistent with the requirements of 10 CFR Part 21, "Reporting of Defects and Noncompliance," BCS has forwarded this error information to their customers so that they will be aware of the errors and can evaluate their significance to safety. This error information was also provided to the NRC.

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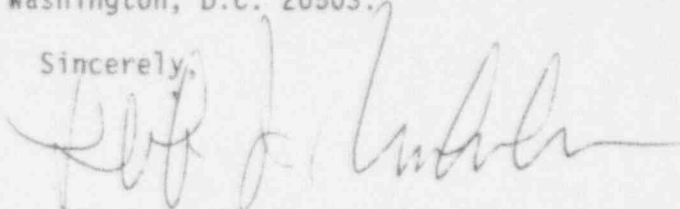
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Mr. Dave McGuiness

-2-

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Sincerely,



Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log

NUCLEAR ERROR NOTICE LOG
SINCE COMMERCIAL CONTRACT TERMINATION
(December, 1990)

Former Nuclear Code Customers of Record:

- | | |
|--|--------------------------------|
| 1. Aptech | 15. Nuc Packaging |
| 2. Bechtel | 16. <u>Nuc Power Services*</u> |
| 3. Black and Veatch | 17. Nutech Inc. |
| 4. Duquesne Light | 18. Omaha Public Power |
| 5. Ebasco | 19. Pacific Gas & Electric |
| 6. <u>Echo Energy</u> | 20. Portland G.E. |
| 7. Gibbs & Hill | 21. <u>Reactor Controls</u> |
| 8. Gilbert Assoc. | 22. Stone and Webster |
| 9. GPU Nuc Corp | 23. Tenara Engr Services. |
| 10. Holtec International | 24. Transnuclear Inc. |
| 11. <u>ABB Impell Corp*</u> | 25. <u>URS Consultants*</u> |
| 12. Jor-Shan Choi | 26. WPPSS |
| 13. New York Power Authority | 27. Wyle Labs |
| 14. <u>Nuc Applic & Sys Analysis</u> | |

Note: Underlined customers have been returned by the U.S. Postal Service as undeliverable for one of several reasons. Former customers did not notify Boeing of address change. *NRC provided new addresses for these three on 8/25/92; database modified accordingly.

Vender	No.	Received	Mailed	Not Mailed To
GT	90.24		4/3/91	
GT	91.01-91.22		4/3/91	
SAS	*		4/3/91	6
*SAS Letter dated 12/27/90 with 12/19/90 Class 3 Error January Report and Error Reports 90-49, 90-57, 90-58, 90-59, 90-22R1, 91-01 thru 91-13, QA Notices 91-01, 91-02, Error Reports 91-14 thru 91-16, 91-55R1, 91-03R1 and QA Notes 91-5.				
GT	91.23, 91.24		4/5/91	
GT	91.25, 91.26		4/12/91	6, 14
GT	91.27		4/16/91	6, 14
SAS	91.19		4/26/91	6, 14

GT	91.28	5/7/91	5/21/91	8, 14
GT	91.29	5/20/91	5/21/91	6, 14
GT	91.30	6/17/91	6/19/91	6, 14
Quadrex	*		6/19/91	6, 14
*Quad-8-91-009 Error Message				
GT	91.31	6/24/91	6/26/91	6, 14
GT	91.32	7/8/91	7/9/91	6, 14
GT	91.33	7/8/91	7/9/91	6, 14
GT	91.34	7/18/91	7/22/91	6, 10, 14
GT	91.35	8/12/91	8/14/91	6, 10, 11, 14
GT	91.36		9/5/91	6, 11, 14
GT	91.37 - 91.40		9/11/91	6, 11, 14
GT	91.41, 91.42		9/26/91	6, 11, 14
SAS	*	9/16/91	9/27/91	6, 11, 14
*Error Reports 88-71, 91-27, 91-28, and 91-29.				
GT	91.43		10/3/91	6, 11, 14
GT	91.44		10/9/91	6, 11, 14
GT	91.45, 91.46	10/14/91	10/16/91	6, 11, 14
SAS	*	10/28/91	11/4/91	6, 11, 14, 16
*91-30 thru 91-34, 89-005R1, 92-25R1, 91-35 and Summary Reports Rev. 4.4 and 4.4A				
GT	91.47	11/4/91	11/11/91	6, 11, 14, 16
GT	91.48 - 91.51	12/10/91	12/17/91	6, 11, 14, 16
GT	92.01	2/11/92	2/17/92	6, 11, 14, 16, 21
GT	92.02, 92.03	2/18/92	2/19/92	6, 11, 14, 16, 21, 25
GT	92.04	4/21/92	4/28/92	6, 11, 14, 16, 21, 25
GT	92.05	5/28/92	6/2/92	6, 11, 14, 16, 21, 25
SAS	92.13, 92.18 thru 92.22	6/10/92	6/16/92	6, 11, 14, 16, 21, 25
GT	92.06	6/23/92	6/25/92	6, 11, 14, 16, 21, 25
GT	92.07, 92.08	7/21/92	7/22/92	6, 11, 14, 16, 21, 25
GT	92.09, 92.10	8/4/92	8/6/92	6, 11, 14, 16, 21, 25
SAS	92.23 thru 92.27	9/10/92	9/10/92	6, 14, 21
GT	92.11 thru 92.14	9/23/92	9/25/92	6, 14, 21
SAS	92.30 thru 92.33	9/25/92	9/29/92	6, 14, 21
GT	92.15 thru 92.17		10/15/92	6, 14, 16, 21, 25
GT	92.18		10/28/92	6, 14, 16, 21, 25
GT	92.19	11/3/92	11/4/92	6, 14, 16, 21, 25
SAS	*		12/14/92	6, 14, 16, 21, 25

	*92-09 thru 92-11, Class 3 Error Reports 92-41 thru 92-45, Revised Class 3 Error Report 88-71R2			
GT	92.20		12/22/92	6, 14, 16, 21, 25
GT	92.21		1/6/93	6, 14, 16, 21, 25
SAS	*		1/14/93	6, 14, 16, 21, 25
	*Class 3 Error Reports 92-46 thru 92-50, Reissued Error Report 91-33R1, QA Notices QA92-12 and 92-13.			
SAS	*		1/15/93	6, 14, 16, 21, 25
	*Class 3 Error Report 92-51, QA Notice 92-14, 4.4 and 4.4A, Class 3 Error Summaries by Report Number			
GT	93.01, 93.02		1/26/93	6, 14, 16, 21, 25
GT	93.03	2/18/93	2/18/93	6, 14, 16, 21, 25
Quadrex	QUAD-6-93-001	2/18/93	2/18/93	6, 14, 16, 21, 25
GT	93.04, 93.05, and 93.06	2/23/93	2/23/93	6, 14, 16, 21, 25
GT	93.07	3/2/93	2/24/93	6, 14, 16, 21, 25
GT	93.08	3/9/93	3/9/93	6, 14, 16, 21, 25
QUAD	QUAD-6-93-002	3/22/93	3/23/93	6, 14, 16, 21, 25
GT	93.09, 93.10	3/31/93	4/1/93	6, 14, 16, 21, 25
GT	93.11	4/12/93	4/12/93	6, 14, 16, 21, 25
GT	93.12	4/14/93	4/14/93	6, 14, 16, 21, 25
GT	93.13	4/21/93	4/22/93	6, 14, 16, 21, 25
GT	93.14	5/4/93	5/4/93	6, 14, 16, 21, 25
GT	93.15	5/18/93	5/18/93	6, 14, 16, 21, 25
GT	93.16	6/2/93	6/2/93	6, 14, 16, 21, 25
QUAD	QUAD-6-93-003	6/2/93	6/2/93	6, 14, 16, 21, 25
GT	93.17	7/7/93	7/7/93	6, 14, 16, 21, 25
SAS	*	7/20/93	7/20/93	6, 14, 16, 21, 25
	*Class 3 Error Reports 93-50 and 93-51, QA Notices QA93-07 and QA93-08			
GT	93.18	8/3/93	8/3/93	6, 14, 16, 21, 25
GT	93.19	8/17/93	8/17/93	6, 14, 16, 21, 25

NOTE: YOUR CONCURRENCE IS REQUIRED ONLY ONCE, SINCE THIS CORRESPONDENCE
CONTAIN THE EXACT INFORMATION FOR EACH ADDRESSEE LISTED BELOW:

ABB Impell Corporation - John McCarthy
Nuclear Power Services
URS/John A. Blume & Associates
Aptech Engineering Services, Inc. - Dr. Stephen M. Kohan
Bechtel Corporation - Mercedes Dumiao
Bechtel Gaithersburg Office
Chief Civil Engineer
Black and Veatch - M. L. Cortner
Duquesne Light Company - W. L. Hunter
EBASCO Services, Inc. - Mr. R. H. Mugno
Echo Energy Consultants, Inc. - Nancy L. Larson
Gibbs and Hill, Inc. - Edmond J. Bond
Gilbert Associates, Inc. - C. A. Vath
GPU Nuclear Corporation - S. C. Turminelli
Holtec International - K. P. Singh
Jor Shan Choi
New York Power Authority - James Brunetti
New York Power Authority - John M. Hoff
Nuclear Application and Systems Analysis Company - K. Takazawa
Nuclear Packaging, Inc. - V. K. Cannon
Nutech, Inc. - J. V. Massey
Omaha Public Power District - M. L. Firkins
Pacific Gas and Electric Company - T. G. Mason
Portland General Electric Company
Reactor Controls, Inc. - Albert W. R. Vonstockhausen
Stone and Webster Engineering Corp.
Tenera Engineering Services - Paul Orgeron
Transnuclear, Inc. - B. R. Teer
Washington Public Power Supply System
Wyle Laboratories - Dave McGuinness

ORIGINAL SIGNED BY:
Leif J. Norrholm

DISTRIBUTION:

VIB R/F
YKim

DRIL R/F
RIngram

GBagchi
Central Files/PDR

DJeng

* see previous concurrence

OFFICE	VIB/DRIL	PMSB/NRR	ECGB/NRR	VIB/DRIL	ECGB/NRR
NAME	WHaass	RIngram	DJeng	UPotapovs	GBagchi
DATE	10/19/93*	10/19/93*	10/19/93*	10/26/93*	10/ 20/93*
COPY DOC	YES XX	YES XX	YES XX	YES XX	YES XX

OFFICE	VIB/DR	DRIL/NRR
NAME	LNorrholm	GERossi
DATE	10/27/93*	12/16/93
COPY DOC	YES XX	YES NO

On 12/14/93, Steve Lewis of OGC called Greg
Cavallaro of VIB. OGC has no objection to
the letter and believe it can be signed
as is. *BC Cavallaro 12/14/93*



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DEC 16 1993

Docket No. 99900531

Nuclear Power Services
One Harmon Plaza
Secaucus, New Jersey 07094

Dear Sir/Madan:

SUBJECT: DISPOSITION OF ERROR NOTICES RECEIVED FROM BOEING COMPUTER SERVICES

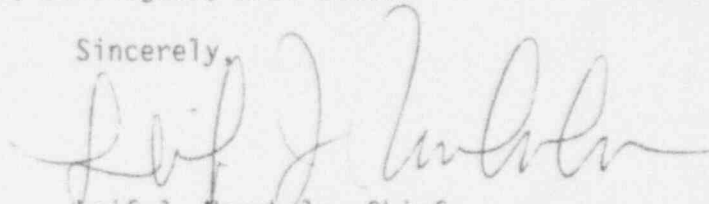
The U.S. Nuclear Regulatory Commission (NRC) has received several notifications from Boeing Computer Services (BCS) regarding errors that have been reported to them by their software suppliers that affect analytical results obtained from computer programs such as GTSTRUDL, ANSYS, and NUPIPE-II. The latter computer programs, we understand, have been used in the design and analysis of structures and piping systems for nuclear power plants. BCS states that its business is to make these computer programs available to architect-engineering firms, consultants, and licensees of nuclear plants for their use as designers and it is unaware of the specific application they are used for and the significance to safety of the end product. Therefore, consistent with the requirements of 10 CFR Part 21, "Reporting of Defects and Noncompliance," BCS has forwarded this error information to their customers so that they will be aware of the errors and can evaluate their significance to safety. This error information was also provided to the NRC.

Considering the above, the NRC is requesting by this letter a summary of your evaluations and responses to the error notices received from BCS to assess their significance to safety and their generic applicability. Your response, or a request for additional time to respond, should be received by the NRC by no later than 30 days from the date of this letter and should be addressed to: Mr. Leif J. Norrholm, Chief, Vendor Inspection Branch, Division of Reactor Inspection and Licensee Performance, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555. To assist you in your response to this request, enclosed is a recent listing of the error notices you should have received from BCS beginning in April 1991. Should you have questions regarding this listing, please contact Ms. J.M. Keithley who is the Nuclear Administrator for BCS at their Seattle, Washington offices, telephone 206-865-4438. Should you have any other questions regarding this request for information, please contact Mr. Walter P. Haass, telephone 301-504-3219.

As a part of the NRC's effort to review the disposition of the error notices, it may be appropriate to examine the users records directly. In this regard, therefore, it is requested that your records be maintained conveniently available for the immediate future to permit staff inspection as the need is identified.

The information collection contained in this request are covered by the Office of Management and Budget clearance number 3150-0035, which expires August 31, 1995. The public reporting burden for this collection of information is estimated to average eight hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Please send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Information and Records Management Branch (MNBB-7714), U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOF-3019, (3150-0035), Office of Management and Budget, Washington, D.C. 20503.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Leif J. Norrholm', is written over the typed name and title.

Leif J. Norrholm, Chief
Vendor Inspection Branch
Division of Reactor Inspection and
Licensee Performance
Office of Nuclear Reactor Regulation

Enclosure:
Nuclear Error Notice Log