

April 18, 2005
9704-PFS-091

DOCUMENT CONTROL DESK
UNITED STATES NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

- Reference:
- a) Boeing Letter G-1151-RSO-92-365 dated August 31, 1992; R.S. Orr to the NRC Operations Center
 - b) NRC Letter Docket No. 99901227 dated August 12, 1992; L. J. Norrholm to R. S. Orr; Subject: Response to 10 CFR 21 Inquiry

Dear Sir or Madam:

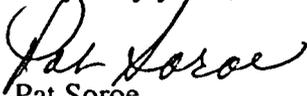
In accordance with the Reference correspondence and 10 CFR 21, Boeing is sending the NRC the attached error notices received from our former software suppliers. Because of unknown current addresses, the following former customers were not notified:

- Reactor Controls, Inc
- Echo Energy Consultants
- Nuclear Applications and Systems Analysis Company (Japan)
- Nuclear Power Services
- GPU Nuclear Corporation
- Tenera, Inc.
- Stone & Webster Engineering
- Raytheon Engineers & Constructors

Error notices have been sent to our other former customers.

Please note that Mark Snyder has taken another position and the undersigned has assumed the role of Nuclear Administrator for Boeing.

Very truly yours,



Pat Soroe
Nuclear Administrator
Mail Code 7A-XT

Enclosures: GT STRUDL Program Report Forms 2004.14 and 2005.01

IE20

GTSTRUDL Program Report Form

GPRF No.: 2004.14

DATE: 10/14/04

FROM: Computer-Aided Structural Engineering Center
Georgia Institute of Technology
Atlanta, Georgia 30332-0355

SEVERITY LEVEL:

- URGENT** Problem results in incorrect answers which may not be apparent or job aborts and cannot be recovered within the session or job.
- SERIOUS** Problem results in incorrect answers which are obvious or problem prevents completion of a particular user's task.
- MINOR** Problem can be worked around or problem poses high frustration factor.
- INFORMATIVE** Documentation error, program usage tip, user inconveniences.

Date Problem Confirmed 10/14/04

Date Notification Sent 10/14/04

Computers All

Operating System All

Version All versions since Version 94.01 up through Version 28.0

Kenneth M. Will
Signature
R & D Division

Ducker, ASD
Title

Kenneth M. Will
Typed or Printed Name

10/14/04
Date of Signature

David C. Key
Signature
Professional Services Division

Configuration Control Manager
Title

David C. Key
Typed or Printed Name

10/14/04
Date of Signature

GTSTRUDL Program Report Form

(Continued)

GPRF No.: 2004.14

DATE: 10/14/07

DESCRIPTION:

Internal member results will be incorrect under the following conditions:

1. Dynamic analysis is performed (response spectra or time history)
2. Pseudo Static Loadings are created
3. Buckling Analysis is Performed
4. Internal member results are output or used in a subsequent steel design after the Buckling Analysis.

In addition, the eigenvalues and eigenvectors from the Dynamic Analysis are overwritten by the eigenvalues and eigenvectors from the Buckling Analysis.

We consider this problem to be very rare since we had never encountered a job which contained both a Dynamic Analysis and a Buckling Analysis prior to this error report.

Workaround:

Execute the Buckling Analysis in a separate run which does not contain a dynamic analysis.

Alternatively, execute the Buckling Analysis before the Dynamic Analysis and output the Buckling results and then perform a Dynamic Analysis. The Dynamic Analysis results will then overwrite the buckling multiplier and mode shape which is acceptable since the buckling results have been output and are not used in any subsequent calculations in GTSTRUDL.

Applicable Sections of the Documentation:

Dynamic Analysis- Sections 2.4.5.4 - 2.4.5.10 of Volume 3 of the GTSTRUDL Reference Manual

Create Pseudo Static Loading -Section 2.4.7 of Volume 3 of the GTSTRUDL Reference Manual

List Section Forces - 2.1.14.6 of Volume 1 of the GTSTRUDL Reference Manual

Perform Buckling Analysis - Section 2.8 of Volume 3 of the GTSTRUDL Reference Manual

GTSTRUDL Program Report Form

GPRF No.: 2005.1

DATE: 3/8/05

FROM: Computer-Aided Structural Engineering Center
Georgia Institute of Technology
Atlanta, Georgia 30332-0355

SEVERITY LEVEL:

- URGENT** Problem results in incorrect answers which may not be apparent or job aborts and cannot be recovered within the session or job.
- SERIOUS** Problem results in incorrect answers which are obvious or problem prevents completion of a particular user's task.
- MINOR** Problem can be worked around or problem poses high frustration factor.
- INFORMATIVE** Documentation error, program usage tip, user inconveniences.

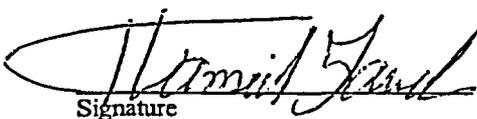
Date Problem Confirmed March 8, 2005

Date Notification Sent 3/9/05

Computers ALL

Operating System ALL

Version All previous versions (before Vers in 28.0)


Signature
R & D Division

Senior Software Engineer
Title

Hamid Zand
Typed or Printed Name

March 8/2005
Date of Signature


Signature
Professional Services Division

Configuration Control Manager
Title

David C. Key
Typed or Printed Name

3/8/05
Date of Signature

GTSTRUDL Program Report Form
(Continued)

GPRF No.: 2005.1

DATE: 3/8/05

DESCRIPTION:

Applicable GTSTRUDL Command:
Steel design **SELECT MEMBERS** command

Applicable GTSTRUDL Steel Design Code:
APIWSD20

Applicable Cross-section:
Pipe

GTSTRUDL Documentation Reference:
Section 4.2 Table 4.2-2 of Volume 8

Explanation:

APIWSD20 (offshore design code) may abort due to an uninitialized variable. This problem occurs only when the **SELECT** command has been issued. This problem does not affect results and has only been encountered on one model.