

July 31, 2003  
9704-MSS-038

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

Also, Duke Engineering & Services was sold to Frametone. We are currently trying to determine the correct report recipient at DES Frametone.

Error notices have been sent to our other former customers.

Very truly yours,

  
Mark S. Snyder  
Nuclear Administrator  
Mail Code 3W-HW

Enclosures: GT STRUDL Program Report Forms 2003.1 and 2003.2

IEZO

# GTSTRUDL Program Report Form

GPRF No.: 2003.1

DATE: 5/8/03

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 May 6, 2003

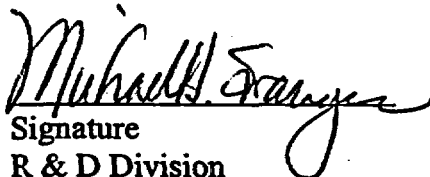
Date Notification Sent 5/8/03

Computers All

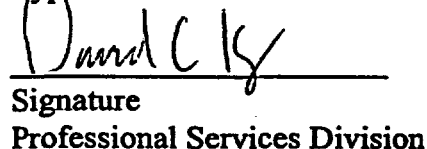
Operating System All

Version All

Target Release for Correction Version 27.0

  
Signature  
R & D Division

Michael H. Swanger  
Typed or Printed Name

  
Signature  
Professional Services Division

David C. Key  
Typed or Printed Name

Sr. RE  
Title

5/6/03  
Date of Signature

Configuration Control Manager  
Title

5/8/03  
Date of Signature

## GTSTRUDL Program Report Form (Continued)

GPRF No.: 2003.1

DATE: 5/8/03

### DESCRIPTION:

The FORM MISSING MASS command destroys the response spectrum spectral acceleration results data that were computed by a previous response spectrum analysis. The loss of data affects only the response spectrum loading condition named in the FORM MISSING MASS command. The implication of this error is that any subsequent LIST RESPONSE SPECTRUM SPECTRAL ACCELERATIONS and COMPUTE RESPONSE SPECTRUM command will produce results values equal to 0.0 for the affected response spectrum loading condition.

For example, in the following command sequence,

```
UNITS CYCLES SECOND
FORM MISSING MASS LOAD 999 'MISSING MASS LOAD' FROM RESPONSE SPECTRUM LOAD 1001 -
CUTOFF FREQUENCY 8.529112 DAMPING RATIO 0.10
```

```
LIST RESPONSE SPECTRUM SPECTRAL ACCELERATIONS
```

the FORM MISSING MASS command destroys the existing spectral acceleration results for response spectrum loading condition 1001 and the subsequent LIST RESPONSE SPECTRUM SPECTRAL ACCELERATIONS command will list spectral acceleration values equal to 0.0 for that loading.

### GTSTRUDL User Reference Manual Sections:

|   |   |
|---|---|
| The FORM MISSING MASS Command   | Section 2.4.9.1, Volume 3, Rev. J,<br>GTSTRUDL Reference Manual |
| Computation of Backsubstituted Response Spectra Results<br>and Modal Combinations | Section 2.4.5.9, Volume 3, Rev. J,<br>GTSTRUDL Reference Manual |
| Output of Response Spectra Results  | Section 2.4.6.7, Volume 3, Rev. J,<br>GTSTRUDL Reference Manual |

# GTSTRU DL Program Report Form

GPRF No.: 2003.2

DATE: 5/8/03

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 May 8, 2003

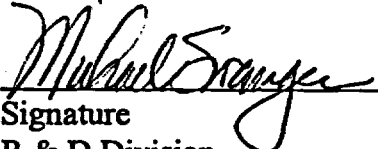
Date Notification Sent 5/8/03

Computers All

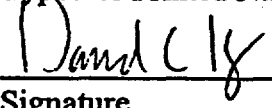
Operating System All

Version All

Target Release for Correction Version 27.0

  
Signature  
R & D Division

Michael H. Swanger  
Typed or Printed Name

  
Signature  
Professional Services Division

David C. Key  
Typed or Printed Name

Sr. RE  
Title

5/8/03  
Date of Signature

Configuration Control Manager  
Title

5/8/03  
Date of Signature

**GTSTRUDL Program Report Form**  
(Continued)

GPRF No.: 2003.2

DATE: 5/8/03

**DESCRIPTION:**

The DEVELOP AND SAVE command for the calculation of superelement stiffness and load matrices may abort during the process of writing the superelement data to the user data set if the number of boundary nodes exceeds 236. If no abort occurs, then the write process will have been successful and problem execution can continue uninterrupted. If you desire to execute the SAVE option and the abort occurs, there is no work around. However, the DEVELOP command without the SAVE option executes successfully.

**GTSTRUDL User Reference Manual Sections:**

Development of Superelement Matrices    Section 2.3.11.2, Volume 3, Rev. N,  
GTSTRUDL Reference Manual