

March 2, 2000  
G-9000-JIM-00-012

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 notice(s) received from our former software suppliers. Because of unknown current addresses, the following former customers were not notified:

Reactor Controls, Inc.  
Echo Energy Consultants, Inc.  
Nuclear Applications and Systems Analysis Company (Japan)  
Nuclear Power Services

Error notices have been sent to our other former customers.

Very truly yours,

John I. Maughan  
Nuclear Administrator  
Phone: (425) 865-4785  
FAX: (425) 865-4851  
Mail Code: 7A-33  
e-mail: john.i.maughan@boeing.com

Enclosure(s): GTSTRUDL Program Report Form 2000.04 and .05



IE20



February 23, 2000

Attention: Nuclear Administrator  
**Boeing Shared Services Group**  
P.O.Box 3707, MC 7A-33  
Seattle, Washington 98124-2207

RE: GT STRUDL

Dear Sir or Madam:

Enclosed please find copies of GTSTRUDL PROGRAM REPORT FORM 2000.04, 2000.05 and a GTSTRUDL QA CUSTOMER ACKNOWLEDGEMENT FORM. Please sign and return the GTSTRUDL QA CUSTOMER ACKNOWLEDGEMENT FORM to acknowledge receipt of the GTSTRUDL Program Report.

Thank you for reviewing the Program Report and for returning the Acknowledgement Form.

Best regards,  
CASE Center

David C. Key  
Configuration Control Manager

Enclosures

# GTSTRUDL Program Report Form

GPRF No.: 2000.04

DATE: 2/23/00

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 February 22, 2000

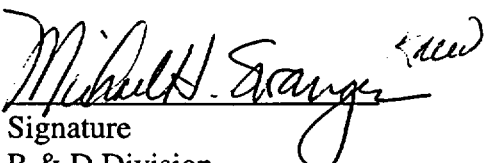
Date Notification Sent 2/23/00

Computers PC only

Operating System DOS, Windows NT, Windows 95

Version Versions 96.01 and later

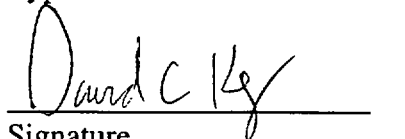
Target Release for Correction Version 99.02

  
Signature  
R & D Division

Mgr. ASD  
Title

Michael H. Swanger  
Typed or Printed Name

2/22/2000  
Date of Signature

  
Signature  
Professional Services Division

Configuration Control Manager  
Title

David C. Key  
Typed or Printed Name

2/23/00  
Date of Signature

**GTSTRUDL Program Report Form**  
(Continued)

GPRF No.: 2000.04

DATE: 2/23/00

**DESCRIPTION:**

Although Section 2.6.4.2.2, Volume 3 of the GTSTRUDL Reference Manual stipulates that a particular joint may not share both master and slave status, a specific error check for this condition is not performed and flagged, permitting the possibility that an abort may occur during any analysis. The work-around is to manually find and eliminate such conditions.

**GTSTRUDL User Reference Manual Sections:**

Rigid Body Incidences

Section 2.6.4.2.2, Volume 3, Rev. P

# GTSTRUDL Program Report Form

GPRF No.: 2000.05

DATE: 2/23/00

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 2/23/00

Date Notification Sent 2/23/00

Computers All

Operating System All

Versions All versions thru 9901

Target Release for Correction 9902

*Kenneth Will*

Signature  
R & D Division

Director ASD

Title

Kenneth Will

Typed or Printed Name

2/23/00

Date of Signature

*David C. Key*

Signature  
Professional Services Division

Configuration Control Manager

Title

David C. Key

Typed or Printed Name

2/23/00

Date of Signature

**GTSTRUDL Program Report Form**  
(Continued)

GPRF No.: 2000.05

DATE: 2/23/00

**DESCRIPTION:**

If a list of elements contains duplicate element identifiers when used with the **CALCULATE AVERAGE** command, either an abort will occur or incorrect average results will be output. An example of this problem is shown below:

**CALCULATE AVERAGE STRESS ELEMENTS 1 TO 10 3**

where element 3 is repeated in the element list.

Users may determine if this error has occurred by checking the number of elements connected to the joints. If an element was repeated in the list, the number of elements connected to the joints will be incorrect.

Please note that this error does not occur if an element list was not specified or if **ALL** was used for the element list:

**CALCULATE AVERAGE STRESS**

In the above example, the element list was not specified and the list defaulted to **ALL**.

Applicable Sections of the Documentation:

**CALCULATE AVERAGE Command**      Section 2.3.7.2 of Volume 3 of the GTSTRUDL  
Reference Manuals