

November 11, 1996  
G-1151-SJA-96-679

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

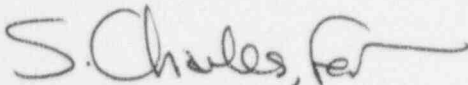
Dear Sir or Madam:

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  
Tenera Engineering Services  
Gibbs & Hill, Inc.  
Holtec International

Error notices have been sent to our other former customers.

Very truly yours,



Sandra J. Andrews  
Nuclear Administrator  
Phone: (206) 865-6248  
FAX: (206) 865-4851  
Mail Stop: 7A-33, or  
e-mail: Sandra.Andrews@PSS.Boeing.com

Enclosure(s): GTSTRUDL Program Report Form Nos. 96.22, 96.23, 96.24

210037

9611210183 961111  
PDR PT21 EMVBOE  
96 PDR

(99901227)

IE2011  
L-4-1PT21C  
XID 512-13 vendor  
inspection

**Georgia Institute of Technology**  
School of Civil & Environmental Engineering  
Atlanta, Georgia 30332-0355  
USA  
404•894•2260  
404•894•8014 FAX

November 1, 1996

NOV 11 1996  
CONTRACTS

Attention: Nuclear Administrator  
**Boeing Information & Support Services**  
P.O.Box 24346, M/S 7A-33  
Seattle, Washington 98124-0346

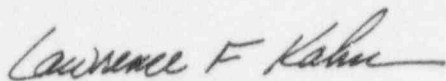
RE: GT STRUDL

Dear Sir or Madam:

Enclosed please find copies of GTSTRUDL PROGRAM REPORT FORM Nos. 96.22 and 96.23, and a VENDOR ACKNOWLEDGMENT FORM. Please sign and return the VENDOR ACKNOWLEDGMENT FORM to acknowledge receipt of the GTSTRUDL Program Report.

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

Best regards,  
CASE Center



Lawrence F. Kahn  
Director of Professional Services

LFK/tlk  
Enclosures

# GTSTRUDL Program Report Form

GPRF No.: 96.22

DATE: 11/1/96

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 \_\_\_\_\_

Date Notification Sent \_\_\_\_\_

Computers ALL

Operating System ALL

Version All

Target Release for Correction 9602

Kenneth Will

Signature  
R & D Division

Kenneth Will  
Typed or Printed Name

Director ASD  
Title

10/31/96  
Date of Signature

Lawrence Kahn

Signature  
Professional Services Division

Lawrence Kahn  
Typed or Printed Name

Director Professional Services  
Title

10/31/96  
Date of Signature

**GTSTRU DL Program Report Form**  
(Continued)

GPRF No.: 96.22

DATE: 11/1/86

**DESCRIPTION:**

If a user specifies CONSTANTS or the MATERIAL command for a member which does not exist, the CONSISTENCY CHECK phase of any analysis command (STIFFNESS, DYNAMIC ANALYSIS, etc) does not inform the user that other data such as MEMBER PROPERTIES or MEMBER INCIDENCES is missing for the member which does not exist.

Example:

**CONSTANTS**

E 30000. ALL BUT MEM 1 101    \$ MEM 101 NEVER EXISTS IN THE MODEL

...

STIFFNESS ANALYSIS ( NO ERROR MESSAGE INDICATING THAT MEM 101 DOES NOT EXIST)

The user can verify that the proper CONSTANTS have been assigned to existing members with the PRINT MEMBER CONSTANTS command.

A problem does not exist if the user has used the ALL option of the CONSTANTS or the MATERIAL commands intending for all members to have the same constants.

Applicable Section of the Users Manual:

Section 2.1.10.2, Volume 1 - CONSTANTS (E, G, DENSITY, POISSON, etc)

2.1.10.3, Volume 1 - MATERIAL command

2.1.14.2, Volume 1 - PRINT MEMBER CONSTANTS

# GTSTRUDL Program Report Form

JPRF No.: 96.23

DATE: 11/1/96

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 \_\_\_\_\_

Date Notification Sent \_\_\_\_\_

Computers ALL

Operating System ALL

Version 85.02 - all later versions

Target Release for Correction N/A - for information purposes

Kenneth Will

Signature  
R & D Division

Kenneth Will  
Typed or Printed Name

Director ASD  
Title

10/31/96  
Date of Signature

Lawrence Kahn

Signature  
Professional Services Division

Lawrence Kahn  
Typed or Printed Name

Director Professional Services  
Title

10/31/96  
Date of Signature

**GTSTRUDL Program Report Form**  
(Continued)

GPRF No.: 96.23

DATE: 11 / 1 / 90

**DESCRIPTION:**

If a user specifies a list of members, joints, or loads such as 'ABC01' TO 'ABC05', GTSTRUDL will use the names 'ABC1', 'ABC2', 'ABC3', 'ABC4' and 'ABC5' for the list. This occurs because the list is broken up into an alphanumeric prefix, 'ABC', and an integer suffix, 01 to 05. However, the integers 01, 02, 03, 04, and 05 are represented as 1,2,3,4 and 5.

This is explained in the User Manual under List Concepts in Section 2.1.2.2 of Volume 1. An example such as the one above is given under Possible Errors in Section 2.1.2.2.

Applicable Section of the Users Manual:

Section 2.1.2.2, Volume 1 - List Concepts

**Georgia Institute of Technology**  
School of Civil & Environmental Engineering  
Atlanta, Georgia 30332-0355  
USA  
404•894•2260  
404•894•8014 FAX

November 4, 1996

Attention: Nuclear Administrator  
**Boeing Information & Support Services**  
P.O.Box 24346, M/S 7A-33  
Seattle, Washington 98124-0346

NOV 11 1996  
CONTRACTS

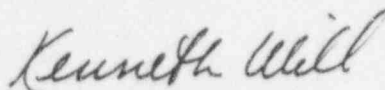
RE: GT STRUDL

Dear Sir or Madam:

Enclosed please find copies of GTSTRUDL PROGRAM REPORT FORM No. 96.24 and a VENDOR ACKNOWLEDGMENT FORM. Please sign and return the VENDOR ACKNOWLEDGMENT FORM to acknowledge receipt of the GTSTRUDL Program Report.

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

Best regards,  
CASE Center



Kenneth Will  
Director

LFK/tlk  
Enclosures



# GTSTRUDL Program Report Form

GPRF No.: 96.24

DATE: 11/4/96

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 11/4/96

Date Notification Sent \_\_\_\_\_

Computers PC

Operating System DOS

Version 96.01 and later

Target Release for Correction 97.01

Michael H. Swanger  
Signature  
R & D Division

Mgr. ASD  
Title

Michael H. Swanger  
Typed or Printed Name

11/4/96  
Date of Signature

Robert Abernathy  
Signature  
Professional Services Division

Sr. Developer  
Title

Robert Abernathy  
Typed or Printed Name

11/4/96  
Date of Signature



**GTSTRUDL Program Report Form**  
(Continued)

GPRF No.: 9624

DATE: 11/4/96

**DESCRIPTION**

If a PAGE ON command is followed by a SAVE command, the resulting save file will be corrupted and you will not be able to restore it later with a RESTORE command. Note the following example:

PAGE ON

SAVE 'MYSAVFIL.SAV'

The save file MYSAVFIL.SAV will be corrupted and unusable.

You can work around the problem by giving the PAGE OFF command prior to the SAVE command. You can issue the PAGE ON command again following the SAVE command:

PAGE ON

PAGE OFF

SAVE 'MYSAVFIL.SAV'

PAGE ON

**Applicable sections of the User's Manual:**

PAGE Command

Section 2.7, GTSTRUDL Release Guide Version 9601 PC,  
Vol. 1

Storing and Restoring a GTSTRUDL Problem Data Base Using Direct or Indirect  
SAVE/RESTORE

Section 2.1.2.4, GTSTRUDL User's Manual, Vol. 1