Bruce A Skin Fix	Nov. 22, 1996	Page F-1
File No. NK21-LOG-33115-975 055 ERM	Computed by:	E.H. Mileta
	Checked by:	W.W. Teper

Appendix F

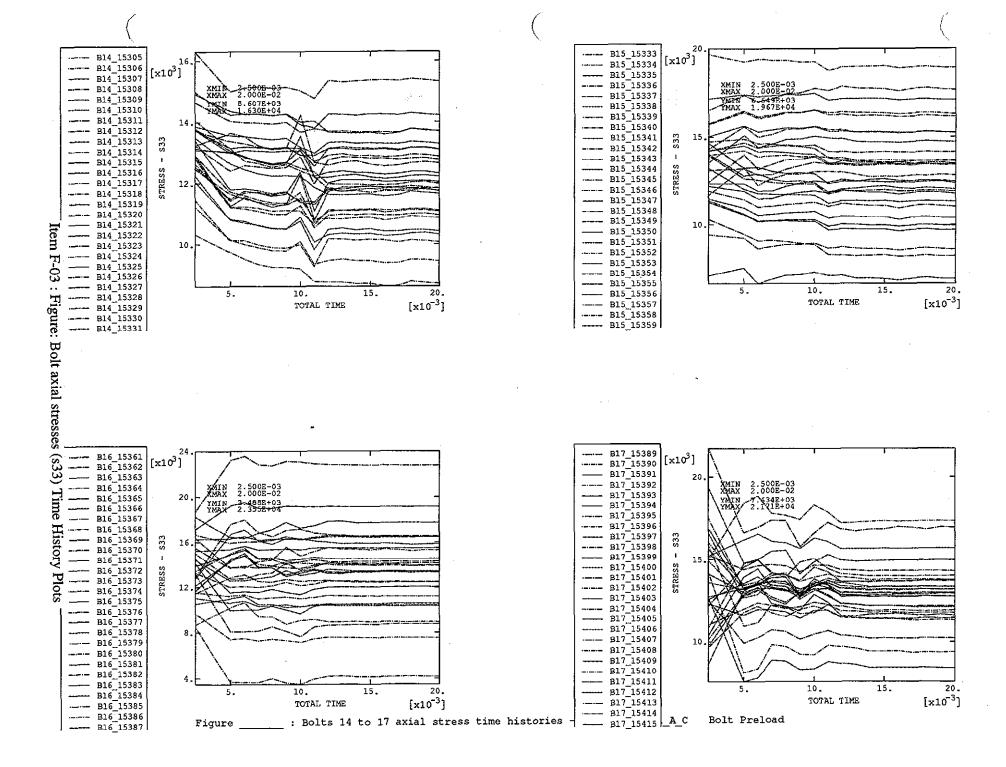
Test Cases - Preload Analysis

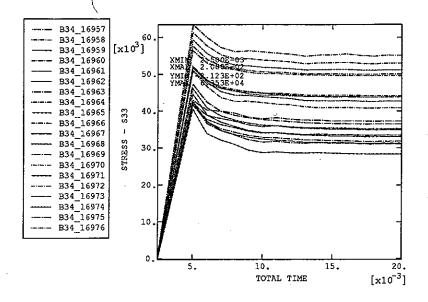
This appendix contains:

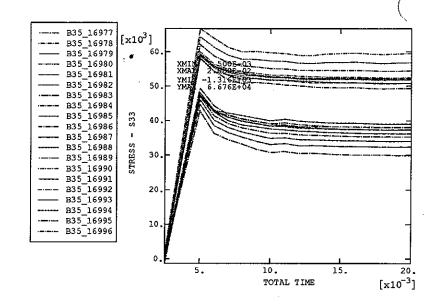
Item	Description	Page	
F-02	Table: Bolt shank average axial stress (S33)	F-02	
F-03	Figure: Bolt axial stresses (s33) Time History Plots	F-03	
F-08	Input Deck: Setpre01_A.inp	F-08	
F-10	Command Proc: BBXY.COM	F-10	
F-12	Journal File: BBXY.JNL	F-12	

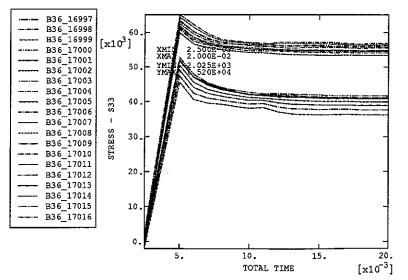
Bolt shank average axial stress S33

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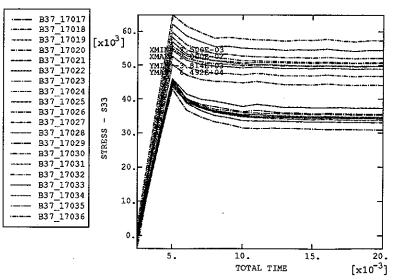
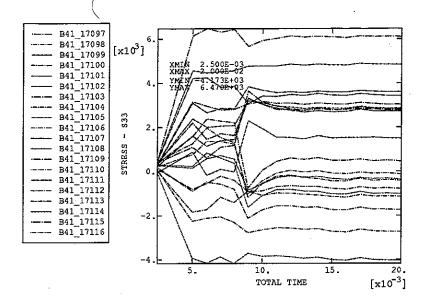
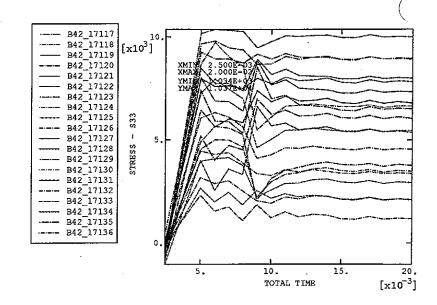
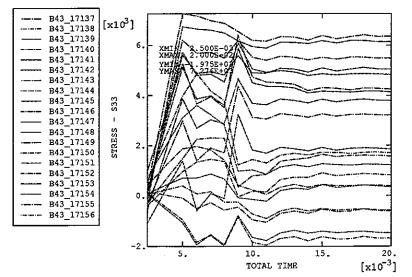


Figure _____ : Bolts 34 to 37 axial stress time histories - run SETPRE01_A_C Bolt Preload

F-4







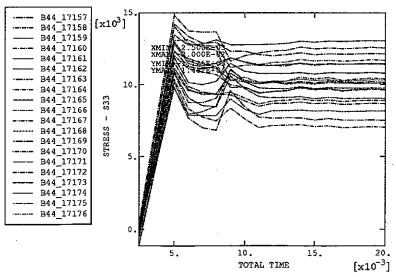
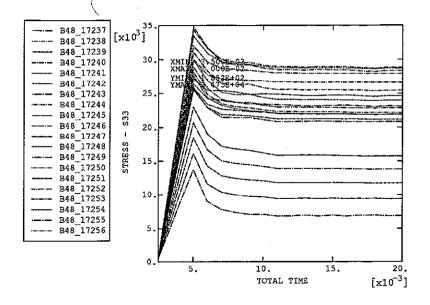
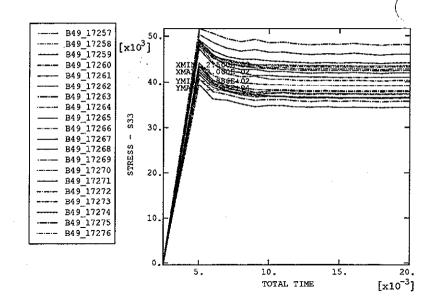
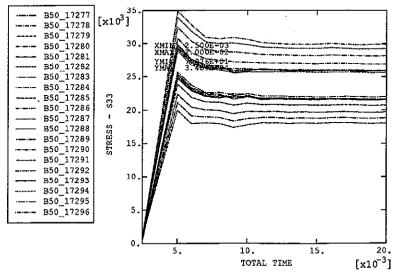


Figure _____ : Bolts 41 to 44 axial stress time histories - run SETPRE01_A_C Bolt Preload









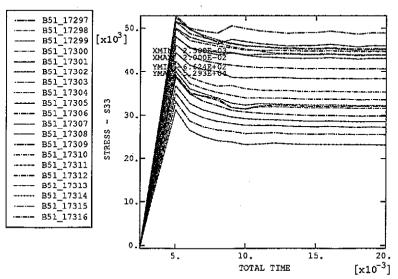
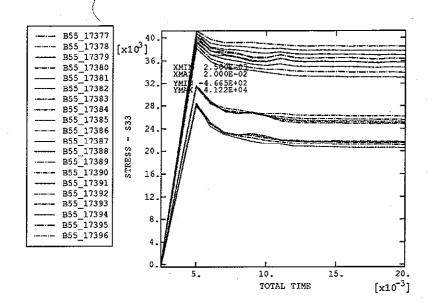
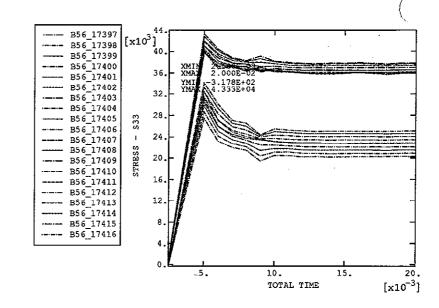


Figure _____ : Bolts 48 to 51 axial stress time histories - run SETPRE01_A_C Bolt Preload







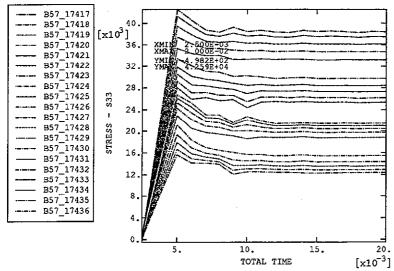


Figure _____ : Bolts 55 to 57 axial stress time histories - run SETPRE01_A_C

STRESS::BASKIN

JOB 594

SETPREO1_A.INP;1

File:

_\$6\$DRB5:[BASKIN.TEST.CUT.PRELOAD]SETPRE01_A.INP;1

Last Modified: 3-NOV-1997 12:09

Owner UIC:

[G42,BASKIN]

Length:

7 blocks

Longest record:

80 bytes

Priority:

100

Submit queue:

SYS\$PRINT

Submitted:

10-NOV-1997 12:00

Printer queue:

SYS\$PRINT

Printer device:

POSTMO::

Digital Equipment Corporation OpenVMS AXP V6.2

PrintServer 20 POSTMO **DECprint Supervisor V1.2**

Item F-08: Input Deck: Setpre01_A.inp

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$6$DRB5: [BASKIN.TEST.CUT.PRELOAD]SETPRE01_A.INP;1
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ECB16,70.0
ECB17,70.0
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ECB36,-2000.0
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2EF2, P2, 1.0
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                                      ESTART,
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EEF2, P2, 1.0
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NCLUDE, input- MODEL.ELSET SUM
NCLUDE, input- MODEL.ELSET
                                                                            CNITOR, NODE-15873,
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ND STEP
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LUDE, input-MODEL.ADDITIONAL
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B History, NSET-NFIXED
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** ECRIS, 70.0

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WRITE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NODE-15873,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXPLICIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NODE-15873,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUM-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DOF-3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOF-3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3-NOV-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page
```

STRESS::BASKIN

JOB 595

BBXY.CON;11

File:

_\$6\$DRB5:[BASKIN.TEST.CUT.PRELOAD]BBXY.COM;11

Last Modified: 5-NOV-1997 08:40

Owner UIC:

[G42,BASKIN]

Length:

3 blocks

Longest record:

76 bytes

Priority:

100

Submit queue:

SYS\$PRINT

Submitted:

10-NOV-1997 12:00

Printer queue:

SYS\$PRINT

Printer device:

POSTMO::

Digital Equipment Corporation OpenVMS AXP V6.2

PrintServer 20 POSTMO **DECprint Supervisor V1.2**

Item F-10: Command Proc: BBXY.COM

F-12

STRESS::BASKIN

JOB 596

BBXY.JNL;12

File:

_\$6\$DRB5:[BASKIN.TEST.CUT.PRELOAD]BBXY.JNL;12

Last Modified: 4-NOV-1997 09:58

Owner UIC:

[G42,BASKIN]

Length:

6 blocks

Longest record:

78 bytes

Priority:

100

Submit queue:

SYS\$PRINT

Submitted:

10-NOV-1997 12:00

Printer queue:

SYS\$PRINT

Printer device:

POSTMO::

Digital Equipment Corporation OpenVMS AXP V6.2

PrintServer 20 POSTMO **DECprint Supervisor V1.2**

```
_$6$DRB5: (BASKIN.TEST.CUT.PRELOAD)BBXY.UNL; 12
set, xy print file-run id. BPE set, xy print file-run id. BPE set, xy report-(0.38,0.75)
    Graph legend, ori-(0.01,0.98)
    sel, file-
    set, har-run id bbxy.mpl
    ** graph axes, ymax- 0.1200
    read curve, var=s33, ele-ecb14u, name-bl4
    disp
    bl4
                                                                             4-NOV-1997 09:58
                                                                                                               Page 1
 print curve
 read curve, var=s33, ele=ecb15u, name=b15 disp b15
 print curve
bl5
 road curve, var=s33, ele=ecbl6u, name=bl6 disp bl6
 print curve
tit, ori=(.35,.01), siz=.02
Figure : Bolts 14 to 17 axial stress time histories - run run_id read curve, var=s33, ele=ecb17u, name=b17 disp b17
 print curve
bl7
 tit, ori={.35,.01}, siz=.02
Comments
 read curve, var=s33,ele=ecb34u, name=b34
disp
b34
 print curve
b34
read curve, var=s33,ele-ecb35u,name=b35 disp b35
 print curve
b35
 read curve, var=s33,ele=ecb36u, name=b36 disp b36
tit, ori-(.35,.01), siz-.02 Figure : Bolts 34 to 37 axial stress time histories - run run_id print curve b36
read curve, var=s33.ele=ecb37u, name=b37 disp b37
 _$6$DRB5:[BASKIN.TEST.CUT.PRELOAD]BBXY.JNL;12 4-MOV-1997 09:58
print curve
 tit, ori=(.35,.01), siz=.02
Comments
read curve, var=s33, ele=ecb41u, name=b41
disp
b41
print curve
read curve, var=s33, ele=ecb42u, namo=b42
disp
b42
print curve
read curve, var=s33, ele=ecb43u, name=b43 disp b43
print curve
b43
tit,ori-(.35,.01),siz-.02
Figure : Bolts 41 to 44 axial stress time histories - run run_id road curve,var=s33,ele-ecb44u,name=b44
print curve
b44
tit, ori=(.35,.01), siz=.02
Comments
comments
read curve, var=s33,ele=ecb48u, name=b48
disp
b48
print curve
b48
read curve, var-s33, ele-ecb49u, name-b49
disp
b49
print curve
b49
read curve, var-s33, ele-ecb50u, name=b50 disp b50
print curve
tit, ori-(.35,.01), eiz-.02
Pigura : Bolts 48 to 51 axial stress time histories - run run_id
read ourve, var-s33, ole-ecb5iu, name-b51
disp
b51
```

_\$6\$DRB5:{BASKIN.TEST.CUT.PRELOAD]BBXY.JNL;12 4-NOV-1997 09:58 Page 3

print curve
b51

tit,ori={.35,.01},siz=.02

comments
read curve,var=s33,ele=ecb55u,name=b55

disp
b55

read curve,var=s33,ele=ecb56u,name=b56
disp
b56

print curve
b56

read curve,var=s33,ele=ecb57u,name=b57
disp
b57

print curve
b57

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