REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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FACIL:50-220 Nine Mile Point Nuclear Station, Unit 1, Niagara Powe 05000220
AUTH.NAME AUTHOR AFFILIATION
DISE,D.P. Niagara Mohawk Power Corp.
RECIP.NAME RECIPIENT AFFILIATION
IPPOLITO,T.A. Operating Reactors Branch 3

SUBJECT: Forwards info on TMRSAP & ADLPIPE computer code re verification of modeling techniques for seismic calculations on unit safety-related piping sys. (3 bound vols recd)
See rpts

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	19 PLANT SYS BR	1	1	20 EEB	1	1
	21 EFLT TRT SYS	1	1	22 BRINKMAN	1	1
	OELD	1	0			
EXTERNAL:	03 LPDR	1	1	04 NSIC	1	1
	23 ACRS	16	16			

Vols entitled, "Info on TMRSAP & ADLPIPE Computer Code re Verification of modeling techniques for seismic calculations."

JUL 30 1979

TMRA
CLP

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NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

July 24, 1979

Director of Nuclear Reactor Regulation
Attn: Mr. Thomas A. Ippolito, Chief
Operating Reactors/Branch #3
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Ippolito:

Re: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Please find enclosed information related to verification of modeling techniques for seismic calculations on safety-related piping systems for Nine Mile Point Unit 1.

As requested by your staff, the following is provided for the TMRSAP ane ADLPIPE computer codes:

1. Computer model including isometric with node numbers, geometry and restraint locations.

2. Input data card listing for seismic analysis.

3. Corresponding computer output for seismic analysis.

The computer models selected for ADLPIPE and TMRSAP are respectively:

ADLPIPE - Model 1 shutdown cooling system piping suction and reactor recirculation loop.

TMRSAP - Reactor water cleanup return piping, System 33 inside the drywell (two models).

Very truly yours,
NIAGARA MOHAWK POWER CORPORATION

Donald P. Dise

Donald P. Dise
Vice President-Engineering

A001 S 1/1 ENCL TO FILES NO PDR OR TRC CY

Enclosure

7907260654

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 $$$$$$$$  $$$$$$$$    $$      $$    $$$$$$     $$$$$$$        $$      $$$    $$$   SDW321M
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$$$$$$$$$  $$$$$$$$   $$$    $$$    $$$$$$   $$$$$$$$$    $$$$$$   $$      $$   SDW321M.
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NINE MILE POINT

MODEL 1

SHOCK XYZ

X

Y

Z

7907260654

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 $$$$$$$$$  $$$$$$$$    $$      $$    $$$$$$     $$$$$$$        $$      $$$    $$$   SDW321M
 $$$$$$$$$  $$$$$$$$    $$      $$    $$$$$$     $$$$$$$        $$      $$$    $$$   SDW321M
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        $$  $$     $$   $$$$  $$$$   $$    $$    $$            $$      $$      $$   SDW321M
        $$  $$     $$   $$$$  $$$$   $$    $$    $$            $$      $$      $$   SDW321M
$$$$$$$$$   $$$$$$$$    $$$    $$$    $$$$$$    $$$$$$$$$     $$$$$$    $$      $$   SDW321M
$$$$$$$$$   $$$$$$$$    $$$    $$$    $$$$$$    $$$$$$$$$     $$$$$$    $$      $$   SDW321M
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BATCH UPDATED 03/27/79 TODAY IS 04/09/79
TWIN CITIES CYBERNET CENTER TCZ

BATCH UPDATED 03/27/79 TODAY IS 04/09/79
TWIN CITIES CYBERNET CENTER TCZ

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

VERSION - ADLPIPE- JULY, 1975

VERSION - ADLPIPE- JULY, 1975
REFERENCE- ADLPIPE MANUAL, DATED JANUARY 1975

FEATURES OF ADLPIPE-

1. ASME SECTION III , CLASS 1 STRESS ANALYSIS AND STRESS REPORT PER NB 3600
2. ASME SECTION III , CLASS 1 USAGE FACTOR CALCULATION.
3. ASME SECTION III , CLASS 2 AND 3 STRESS ANALYSIS AND STRESS REPORT PER WINTER 1972 ADDENDA
4. ANSI B31.1 , 1967 AND 1973 STRESS ANALYSIS AND REPORT
5. ISOMETRIC PLOT WITH SEQUENCE NUMBERS
6. ISOMETRIC PLOTTING WITH OR WITHOUT DIMENSIONS
7. PLAN AND ELEVATION DRAWINGS WITH OR WITHOUT DIMENSIONS
8. STEREOSCOPIC VIEWS OF DEFORMED PIPING
9. SKEW RESTRAINT ADDED (SEE REFERENCED INPUT MANUAL P. 39)
10. REVISED TAPE 14 FILE STRUCTURE (SEE REFERENCED INPUT MANUAL P. 43)
11. OPTIONAL ABSOLUTE SUM ON CLOSELY SPACED MODES
    (ACTIVATE BY SPECIFYING PERCENT RANGE OF MODES TO BE ABSOLUTELY SUMMED IN Z(2) FIELD ON SHOCK CARD)
12. HANGER SUMMARY IS AUTOMATICALLY PROVIDED

FOR FURTHER INFORMATION OR COMMENT CONTACT-
I. M. DINGWELL
A. D. LITTLE, INC
ACORN PARK
CAMBRIDGE, MASS 02140
TEL (617) 864-5770

COMPILED INPUT DATA

BS	1	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PL	2	4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SH	1	20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GROUND MOTION RESPONSE-SPECTRA FOR NINE MILE POINT NU								
DI	0	5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HORIZONTAL INPUT SPRECTRUM								
FR	1	6	.1000	.3000	.5000	.7000	.8000	.9000
FR	7	12	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000
FR	13	17	8.0000	10.0000	20.0000	50.0000	100.0000	0.0000
G	1	6	.0540	.0580	.0700	.0930	.1100	.1200
G	7	12	.1300	.2400	.3200	.3800	.4200	.4200
G	13	17	.3900	.3500	.2400	.1400	.1100	0.0000
DI	0	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
VERTICAL INPUT SPECTRUM (2/3 OF HORIZONTAL)								
FR	1	6	.1000	.3000	.5000	.7000	.8000	.9000
FR	7	12	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000
FR	13	17	8.0000	10.0000	20.0000	50.0000	100.0000	0.0000
G	1	6	.0360	.0390	.0470	.0620	.0750	.0800
G	7	12	.0860	.1600	.2130	.2530	.2800	.2800
G	13	17	.2600	.2300	.1600	.0930	.0750	0.0000
AN	0	5	2.5900	274.7500	12.1880	0.0000	0.0000	0.0000
RE	0	5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IN	0	15	.0100	.0100	.0100	0.0000	0.0000	0.0000

LU	0	20	3.3800	269.2500	15.9050	0.0000	0.0000	0.0000

LU	0	20	3.3800	269.2500	15.9050	0.0000	0.0000	0.0000
IN	0	20	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	30	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	40	.0100	.0100	.0100	0.0000	0.0000	0.0000
LU	0	50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IN	0	50	.0100	.0100	.0100	0.0000	0.0000	0.0000
RE	0	50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IN	0	57	.0100	.0100	.0100	0.0000	0.0000	0.0000
LU	0	70	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IN	0	70	.0100	.0100	.0100	0.0000	0.0000	0.0000
LU	0	85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IN	0	85	.0100	.0100	.0100	0.0000	0.0000	0.0000
AN	0	87	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RE	0	87	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
LU	0	90	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IN	0	90	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	100	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	107	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	115	.0100	.0100	.0100	0.0000	0.0000	0.0000
LU	0	125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IN	0	125	.0100	.0100	.0100	0.0000	0.0000	0.0000
RE	0	125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IN	0	135	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	150	.0100	.0100	.0100	0.0000	0.0000	0.0000
AN	0	155	8.4670	267.0200	6.1510	0.0000	0.0000	0.0000
RE	0	155	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IN	0	167	.0100	.0100	.0100	0.0000	0.0000	0.0000

IN	0	175	.0100	.0100	.0100	0.0000	0.0000	0.0000

IN	0	175	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	190	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	205	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	220	.0100	.0100	.0100	0.0000	0.0000	0.0000
IN	0	240	.0100	.0100	.0100	0.0000	0.0000	0.0000
LU	0	255	-13.2600	269.5030	41.2450	0.0000	0.0000	0.0000
IN	0	255	.0100	.0100	.0100	0.0000	0.0000	0.0000
RE	0	255	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	5	15	28.0000	1.0500	27.4000	0.0000	0.0000	44.1800
RU	5	10	.7900	0.0000	3.7170	0.0000	0.0000	0.0000
EL	10	15	0.0000	0.0000	0.0000	45.0000	0.0000	0.0000
TA	10	15	0.0000	-3.7500	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	15	20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	15	20	0.0000	-1.7500	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	20	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	20	25	0.0000	-2.9650	0.0000	0.0000	0.0000	0.0000
RU	25	30	0.0000	-2.9650	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	30	40	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	30	35	0.0000	-2.9650	0.0000	0.0000	0.0000	0.0000
RU	35	40	0.0000	-2.9650	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	40	50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	40	45	0.0000	-2.9650	0.0000	0.0000	0.0000	0.0000

RU	45	50	0.0000	-2.9650	0.0000	0.0000	0.0000	0.0000

RU	45	50	0.0000	-2.9650	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	50	57	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	50	55	0.0000	-5.0000	0.0000	0.0000	0.0000	0.0000
RU	55	57	0.0000	-5.4160	0.0000	0.0000	0.0000	0.0000
CH	55	57	30.0000	2.0500	0.0000	0.0000	0.0000	215.2000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	57	70	28.0000	1.0500	27.4000	0.0000	0.0000	44.1800
RU	57	60	0.0000	-3.3020	0.0000	0.0000	0.0000	0.0000
RU	60	65	0.0000	-3.3020	0.0000	0.0000	0.0000	0.0000
RU	65	70	0.0000	-2.8040	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	70	85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	70	75	0.0000	-3.8000	0.0000	0.0000	0.0000	0.0000
EL	75	80	0.0000	0.0000	0.0000	45.0000	0.0000	0.0000
RU	80	85	3.7770	0.0000	-.4160	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	85	87	30.0000	10.0000	27.4000	0.0000	0.0000	324.3580
RU	85	86	2.2610	0.0000	-.2560	0.0000	0.0000	0.0000
RU	86	87	0.0000	4.3330	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	87	90	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	87	88	2.6240	0.0000	.4730	0.0000	0.0000	0.0000
RU	88	90	.4340	0.0000	-2.4100	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	90	100	28.0000	1.0500	27.4000	0.0000	0.0000	44.1800
RU	90	95	.6740	0.0000	-3.7390	0.0000	0.0000	0.0000

EL	95	100	0.0000	0.0000	0.0000	45.0000	0.0000	0.0000

EL	95	100	0.0000	0.0000	0.0000	45.0000	0.0000	0.0000
TA	95	100	0.0000	3.7500	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	100	107	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	100	105	0.0000	1.2500	0.0000	0.0000	0.0000	0.0000
RU	105	107	0.0000	4.5830	0.0000	0.0000	0.0000	0.0000
CH	105	107	30.0000	2.0500	0.0000	0.0000	0.0000	173.1000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	107	115	28.0000	1.0500	27.4000	0.0000	0.0000	44.1800
RU	107	110	0.0000	2.9550	0.0000	0.0000	0.0000	0.0000
RU	110	115	0.0000	2.9550	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	115	125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	115	120	0.0000	2.9550	0.0000	0.0000	0.0000	0.0000
RU	120	125	0.0000	2.9550	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	125	135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	125	130	0.0000	4.0000	0.0000	0.0000	0.0000	0.0000
RU	130	135	0.0000	4.0000	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	135	150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	135	140	0.0000	4.0000	0.0000	0.0000	0.0000	0.0000
EL	140	145	0.0000	0.0000	0.0000	45.0000	0.0000	0.0000
RU	145	150	-2.3420	.7220	-1.7020	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	150	155	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	150	155	-2.3420	.7220	-1.7020	0.0000	0.0000	0.0000

SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	20	167	14.0000	.7530	27.4000	0.0000	0.0000	13.1830
RU	20	160	-2.5750	0.0000	0.0000	0.0000	0.0000	0.0000
RU	160	165	-2.5750	0.0000	0.0000	0.0000	0.0000	0.0000
RU	165	167	-3.3700	0.0000	0.0000	0.0000	0.0000	0.0000
CH	165	167	16.0000	1.7530	0.0000	0.0000	0.0000	98.1700
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	167	175	14.0000	.7530	27.4000	0.0000	0.0000	13.1830
RU	167	170	-3.3420	0.0000	0.0000	0.0000	0.0000	0.0000
RU	170	175	-3.3420	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	175	190	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	175	180	-3.3420	0.0000	0.0000	0.0000	0.0000	0.0000
RU	180	185	-3.3420	0.0000	0.0000	0.0000	0.0000	0.0000
EL	185	190	0.0000	0.0000	0.0000	21.0000	0.0000	0.0000
TA	185	190	0.0000	.1250	1.7500	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	190	205	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	190	195	0.0000	.0020	.0290	0.0000	0.0000	0.0000
RU	195	200	0.0000	.1270	1.7750	0.0000	0.0000	0.0000
EL	200	205	0.0000	0.0000	0.0000	21.0000	0.0000	0.0000
TA	200	205	1.7500	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	205	220	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	205	210	.8750	0.0000	0.0000	0.0000	0.0000	0.0000
RU	210	215	2.6250	0.0000	0.0000	0.0000	0.0000	0.0000
EL	215	220	0.0000	0.0000	0.0000	21.0000	0.0000	0.0000

TA	215	220	0.0000	0.0000	1.7500	0.0000	0.0000	0.0000

TA	215	220	0.0000	0.0000	1.7500	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	220	240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	220	225	0.0000	0.0000	1.3630	0.0000	0.0000	0.0000
RU	225	230	0.0000	0.0000	3.1130	0.0000	0.0000	0.0000
RU	230	235	0.0000	0.0000	3.1130	0.0000	0.0000	0.0000
RU	235	240	0.0000	0.0000	3.1130	0.0000	0.0000	0.0000
SE	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PI	240	255	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RU	240	245	0.0000	0.0000	3.1130	0.0000	0.0000	0.0000
RU	245	250	0.0000	0.0000	3.1130	0.0000	0.0000	0.0000
RU	250	255	0.0000	0.0000	3.1130	0.0000	0.0000	0.0000
WE	250	255	6630.0000	0.0000	0.0000	0.0000	0.0000	0.0000
EN	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

130608.83 LBS.

130606.83 LBS,

NETWORK PT.	SEC	TYPE						
1	5	ANCHOR	0.00	0.00	0.00	0.00	0.00	0.00
2	15	LUMP	2038.61	2038.61	2038.61	0.00	0.00	0.00
3	20	LUMP	2709.74	2709.74	2709.74	0.00	0.00	0.00
4	30	LUMP	3143.86	3143.86	3143.86	0.00	0.00	0.00
5	40	LUMP	3143.86	3143.86	3143.86	0.00	0.00	0.00
6	50	LUMP	4759.87	4759.87	4759.87	0.00	0.00	0.00
7	57	LUMP	15943.02	15943.02	15943.02	0.00	0.00	0.00
8	70	LUMP	4081.80	4081.80	4081.69	0.00	0.00	0.00
9	85	LUMP	14448.94	14448.94	14448.94	0.00	0.00	0.00
10	87	ANCHOR	0.00	0.00	0.00	0.00	0.00	0.00
11	90	LUMP	11529.18	11529.18	11529.18	0.00	0.00	0.00
12	100	LUMP	5698.87	5698.87	5698.87	0.00	0.00	0.00
13	107	LUMP	7624.79	7624.79	7624.79	0.00	0.00	0.00
14	115	LUMP	3133.26	3133.26	3133.26	0.00	0.00	0.00
15	125	LUMP	3687.27	3687.27	3687.27	0.00	0.00	0.00
16	135	LUMP	3737.23	3737.23	3737.23	0.00	0.00	0.00
17	150	LUMP	2407.54	2407.54	2407.54	0.00	0.00	0.00
18	155	ANCHOR	0.00	0.00	0.00	0.00	0.00	0.00
19	167	LUMP	4639.49	4639.49	4639.49	0.00	0.00	0.00
20	175	LUMP	1136.40	1136.40	1136.40	0.00	0.00	0.00
21	190	LUMP	829.78	829.78	829.78	0.00	0.00	0.00
22	205	LUMP	577.93	577.93	577.93	0.00	0.00	0.00
23	226	LUMP	1202.37	1202.37	1202.37	0.00	0.00	0.00
24	240	LUMP	1585.21	1585.21	1585.21	0.00	0.00	0.00
25	255	LUMP	0.00	0.00	7368.71	0.00	0.00	0.00

PIPE SYSTEM GEOMETRY

PIPE SYSTEM GEOMETRY

NUMBER OF NETWORK POINTS = 25
NUMBER OF SECTIONS = 24
ORDER OF DYNAMICAL STIFFNESS MATRIX = 64

NUMBER OF MEMBERS = 56
ORDER OF STIFFNESS MATRIX = 130

NETWORK POINT RESTRAINTS

		TRANSLATION			ROTATION		
NETWORK PT.	SEQ	X	Y	Z	X	Y	Z
1	5	RST	RST	RST	RST	RST	RST
2	15	FREE	FREE	FREE	FREE	FREE	FREE
3	20	FREE	FREE	FREE	FREE	FREE	FREE
4	30	FREE	FREE	FREE	FREE	FREE	FREE
5	40	FREE	FREE	FREE	FREE	FREE	FREE
6	50	FREE	FREE	FREE	FREE	FREE	FREE
7	57	FREE	FREE	FREE	FREE	FREE	FREE
8	70	FREE	FREE	FREE	FREE	FREE	FREE
9	85	FREE	FREE	FREE	FREE	FREE	FREE
10	87	RST	RST	RST	RST	RST	RST
11	90	FREE	FREE	FREE	FREE	FREE	FREE
12	100	FREE	FREE	FREE	FREE	FREE	FREE
13	107	FREE	FREE	FREE	FREE	FREE	FREE
14	115	FREE	FREE	FREE	FREE	FREE	FREE
15	125	FREE	FREE	FREE	FREE	FREE	FREE
16	135	FREE	FREE	FREE	FREE	FREE	FREE
17	150	FREE	FREE	FREE	FREE	FREE	FREE
18	155	RST	RST	RST	RST	RST	RST
19	167	FREE	FREE	FREE	FREE	FREE	FREE
20	175	FREE	FREE	FREE	FREE	FREE	FREE
21	190	FREE	FREE	FREE	FREE	FREE	FREE
22	205	FREE	FREE	FREE	FREE	FREE	FREE
23	220	FREE	FREE	FREE	FREE	FREE	FREE
24	240	FREE	FREE	FREE	FREE	FREE	FREE
25	255	RST	RST	FREE	FREE	FREE	FREE

NETWORK POINT MOVEMENTS (INCHES)

		TRANSLATION			ROTATION		
NETWORK PT.	SEQ	X	Y	Z	X	Y	Z

NO MOVEMENTS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

RESPONSE SPECTRA

FREQUENCY	X AMPLITUDE
.10	52.7985
.30	6.3011
.50	2.7377
.70	1.8557
.80	1.6805
.90	1.4485
1.00	1.2711
2.00	.5866
3.00	.3476
4.00	.2322
5.00	.1643
6.00	.1141
8.00	.0596
10.00	.0342
20.00	.0059
50.00	.0005
100.00	.0001

FREQUENCY	Y AMPLITUDE
.10	35.1990
.30	4.2369
.50	1.8382
.70	1.2372
.80	1.1152
.90	.9657
1.00	.8409
2.00	.3911
3.00	.2314
4.00	.1546
5.00	.1095
6.00	.0760
8.00	.0397
10.00	.0225
20.00	.0039
50.00	.0004
100.00	.0001

FREQUENCY	Z AMPLITUDE
.10	52.7985
.30	6.3011
.50	2.7377
.70	1.8557
.80	1.6805
.90	1.4485
1.00	1.2711
2.00	.5866
3.00	.3476
4.00	.2322
5.00	.1643
6.00	.1141
8.00	.0596
10.00	.0342
20.00	.0059
50.00	.0005
100.00	.0001

4.00	.2322
5[redacted]	.164[redacted]
6.00	.1141
8.00	.0596
10.00	.0382
20.00	.0059
50.00	.0005
100.00	.0001

* NOTE *

FOR CURVED MEMBERS, QUANTITIES LISTED UNDER INITIAL CO-ORDS ARE CO-ORDS OF ARC CENTER THE BRACKETED NUMBERS WHICH FOLLOW ARE THE ARC RADIUS (IN), INCLUDED ANGLE (DEG).

* NOTE *

FOR THIS VERSION, CO-ORD DIMENSIONS IN FEET ALL OTHER QUATITIES, RADIUS, THICKNESS, STRESS MOMENTS, ETC. ARE DIMENSIONED IN INCHES.

PIPE SYSTEM GEOMETRY

SECTION 1 CONNECTS SEQUENCE POINTS 5 AND 15 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	5	10	14.00	1.050	2.59	274.75	12.19	2.60	274.75	12.24	.27E+08	0.00	0.	44.18
2	EL/EL	10	15	14.00	1.050	2.60	271.00	12.24	(45.000	90.000)		.27E+08	0.00	0.	44.18

SECTION 2 CONNECTS SEQUENCE POINTS 15 AND 20 AND HAS 1 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	15	20	14.00	1.050	3.38	271.00	15.91	3.38	269.25	15.91	.27E+08	0.00	0.	44.18

SECTION 3 CONNECTS SEQUENCE POINTS 20 AND 30 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	20	25	14.00	1.050	3.38	269.25	15.91	3.38	266.29	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	25	30	14.00	1.050	3.38	266.29	15.91	3.38	263.32	15.91	.27E+08	0.00	0.	44.18

SECTION 4 CONNECTS SEQUENCE POINTS 30 AND 40 AND HAS 2 MEMBERS.

SECTION 4 CONNECTS SEQUENCE POINTS 30 AND 40 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	30	35	14.00	1.050	3.38	263.32	15.91	3.38	260.36	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	35	40	14.00	1.050	3.38	260.36	15.91	3.38	257.39	15.91	.27E+08	0.00	0.	44.18

SECTION 5 CONNECTS SEQUENCE POINTS 40 AND 50 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	40	45	14.00	1.050	3.38	257.39	15.91	3.38	254.43	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	45	50	14.00	1.050	3.38	254.43	15.91	3.38	251.46	15.91	.27E+08	0.00	0.	44.18

SECTION 6 CONNECTS SEQUENCE POINTS 50 AND 57 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	50	55	14.00	1.050	3.38	251.46	15.91	3.38	246.46	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	55	57	15.00	2.050	3.38	246.46	15.91	3.38	241.04	15.91	.27E+08	0.00	0.	215.20

SECTION 7 CONNECTS SEQUENCE POINTS 57 AND 70 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	57	60	14.00	1.050	3.38	241.04	15.91	3.38	237.74	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	60	65	14.00	1.050	3.38	237.74	15.91	3.38	234.44	15.91	.27E+08	0.00	0.	44.18
3	RU/RU	65	70	14.00	1.050	3.38	234.44	15.91	3.38	231.64	15.91	.27E+08	0.00	0.	44.18

SECTION 8 CONNECTS SEQUENCE POINTS 70 AND 85 AND HAS 3 MEMBERS.

SECTION 8 CONNECTS SEQUENCE POINTS 70 AND 85 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	70	75	14.00	1.050	3.38	231.64	15.91	3.38	231.59	15.91	.27E+08	0.00	0.	44.18
2	EL/EL	75	80	14.00	1.050	7.11	231.59	15.49	(45.000	90.000	)	.27E+08	0.00	0.	44.18
3	RU/RU	80	85	14.00	1.050	7.11	227.84	15.49	7.16	227.84	15.49	.27E+08	0.00	0.	44.18

SECTION 9 CONNECTS SEQUENCE POINTS 85 AND 87 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	85	86	15.00	10.000	7.16	227.84	15.49	9.42	227.84	15.23	.27E+08	0.00	0.	324.36
2	RU/RU	86	87	15.00	10.000	9.42	227.84	15.23	9.42	232.17	15.23	.27E+08	0.00	0.	324.36

SECTION10 CONNECTS SEQUENCE POINTS 87 AND 90 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	87	88	15.00	10.000	9.42	232.17	15.23	12.04	232.17	15.71	.27E+08	0.00	0.	324.36
2	RU/RU	88	90	15.00	10.000	12.04	232.17	15.71	12.48	232.17	13.30	.27E+08	0.00	0.	324.36

SECTION11 CONNECTS SEQUENCE POINTS 90 AND 100 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	90	95	14.00	1.050	12.48	232.17	13.30	12.48	232.17	13.25	.27E+08	0.00	0.	44.18
2	EL/EL	95	100	14.00	1.050	12.48	235.92	13.25	(45.000	90.000	)	.27E+08	0.00	0.	44.18

SECTION12 CONNECTS SEQUENCE POINTS 100 AND 107 AND HAS 2 MEMBERS.

SECTION12 CONNECTS SEQUENCE POINTS 100 AND 107 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	100	105	14.00	1.050	13.15	235.92	9.56	13.15	237.17	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	105	107	15.00	2.050	13.15	237.17	9.56	13.15	241.75	9.56	.27E+08	0.00	0.	173.10

SECTION13 CONNECTS SEQUENCE POINTS 107 AND 115 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	107	110	14.00	1.050	13.15	241.75	9.56	13.15	244.71	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	110	115	14.00	1.050	13.15	244.71	9.56	13.15	247.66	9.56	.27E+08	0.00	0.	44.18

SECTION14 CONNECTS SEQUENCE POINTS 115 AND 125 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	115	120	14.00	1.050	13.15	247.66	9.56	13.15	250.62	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	120	125	14.00	1.050	13.15	250.62	9.56	13.15	253.57	9.56	.27E+08	0.00	0.	44.18

SECTION15 CONNECTS SEQUENCE POINTS 125 AND 135 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	125	130	14.00	1.050	13.15	253.57	9.56	13.15	257.57	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	130	135	14.00	1.050	13.15	257.57	9.56	13.15	261.57	9.56	.27E+08	0.00	0.	44.18

SECTION16 CONNECTS SEQUENCE POINTS 135 AND 150 AND HAS 3 MEMBERS.

SECTION16 CONNECTS SEQUENCE POINTS 135 AND 150 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	135	140	14.00	1.050	13.15	261.57	9.56	13.15	262.64	9.56	.27E+08	0.00	0.	44.18
2	EL/EL	140	145	14.00	1.050	10.12	262.64	7.35	(45.000	75.997	)	.27E+08	0.00	0.	44.18
3	RU/RU	145	150	14.00	1.050	10.85	266.28	7.89	10.81	266.29	7.85	.27E+08	0.00	0.	44.18

SECTION17 CONNECTS SEQUENCE POINTS 150 AND 155 AND HAS 1 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	150	155	14.00	1.050	10.81	266.29	7.85	8.47	267.02	6.15	.27E+08	0.00	0.	44.18

SECTION18 CONNECTS SEQUENCE POINTS 20 AND 167 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	20	160	7.00	.753	3.38	269.25	15.91	.80	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	160	165	7.00	.753	.80	269.25	15.91	-1.77	269.25	15.91	.27E+08	0.00	0.	13.18
3	RU/RU	165	167	8.00	1.753	-1.77	269.25	15.91	-5.14	269.25	15.91	.27E+08	0.00	0.	98.17

SECTION19 CONNECTS SEQUENCE POINTS 167 AND 175 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	167	170	7.00	.753	-5.14	269.25	15.91	-8.48	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	170	175	7.00	.753	-8.48	269.25	15.91	-11.82	269.25	15.91	.27E+08	0.00	0.	13.18

SECTION20 CONNECTS SEQUENCE POINTS 175 AND 190 AND HAS 3 MEMBERS.

SECTION20 CONNECTS SEQUENCE POINTS 175 AND 190 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	175	180	7.00	.753	-11.82	269.25	15.91	-15.17	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	180	185	7.00	.753	-15.17	269.25	15.91	-16.76	269.25	15.91	.27E+08	0.00	0.	13.18
3	EL/EL	185	190	7.00	.753	-16.76	269.37	17.65	(21.000 90.000)			.27E+08	0.00	0.	13.18

SECTION21 CONNECTS SEQUENCE POINTS 190 AND 205 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	190	195	7.00	.753	-18.51	269.37	17.65	-18.51	269.38	17.68	.27E+08	0.00	0.	13.18
2	RU/RU	195	200	7.00	.753	-18.51	269.38	17.68	-18.51	269.38	17.71	.27E+08	0.00	0.	13.18
3	EL/EL	200	205	7.00	.753	-16.76	269.38	17.71	(21.000 90.000)			.27E+08	0.00	0.	13.18

SECTION22 CONNECTS SEQUENCE POINTS 205 AND 220 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	205	210	7.00	.753	-16.76	269.50	19.45	-15.88	269.50	19.45	.27E+08	0.00	0.	13.18
2	RU/RU	210	215	7.00	.753	-15.88	269.50	19.45	-15.01	269.50	19.45	.27E+08	0.00	0.	13.18
3	EL/EL	215	220	7.00	.753	-15.01	269.50	21.20	(21.000 90.000)			.27E+08	0.00	0.	13.18

SECTION23 CONNECTS SEQUENCE POINTS 220 AND 240 AND HAS 4 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	220	225	7.00	.753	-13.26	269.50	21.20	-13.26	269.50	22.57	.27E+08	0.00	0.	13.18
2	RU/RU	225	230	7.00	.753	-13.26	269.50	22.57	-13.26	269.50	25.68	.27E+08	0.00	0.	13.18

3	RU/RU	230	235	7.00	.753	-13.26	269.50	25.68	-13.26	269.50	28.79	.27E+08	0.00	0.	13.18
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	269.50	[illegible]	.27E+08	0.00	0.	13.18

3	RU/RU	230	235	7.00	.753	-13.26	269.50	25.66	-13.26	269.50	28.79	.27E+08	0.00	0.	13.18
4	RU/RU	235	240	7.00	.753	-13.26	269.50	28.79	-13.26	269.50	31.91	.27E+08	0.00	0.	13.18

SECTION24 CONNECTS SEQUENCE POINTS 240 AND 255 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	240	245	7.00	.753	-13.26	269.50	31.91	-13.26	269.50	35.02	.27E+08	0.00	0.	13.18
2	RU/RU	245	250	7.00	.753	-13.26	269.50	35.02	-13.26	269.50	38.13	.27E+08	0.00	0.	13.18
3	RU/RU	250	255	7.00	.753	-13.26	269.50	38.13	-13.26	269.50	41.25	.27E+08	0.00	0.	13.18
	WEIGHT					.66E+04									

MODAL DEFLECTIONS FOR 20 FREQUENCIES

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

MODAL DEFLECTIONS FOR 20 FREQUENCIES
DEFLECTIONS INCLUDE SHOCK SPECTRA DISPLACEMENTS AND MODAL PARTICIPATION FACTORS

		MODE AND FREQUENCY									
		1	2	3	4	5	6	7	8	9	10
LUMP	DIR	1.927	3.721	7.612	8.611	11.594	13.072	13.839	15.604	15.926	18.087
15	1	.017	-.001	.020	.001	.000	-.000	0.000	0.000	.000	-.000
15	2	.003	-.000	.012	.000	-.000	.000	0.000	0.000	.000	.000
15	3	.001	-.000	.016	-.001	-.000	.000	0.000	0.000	.000	.000
20	1	.019	-.003	.029	.002	.000	-.000	0.000	0.000	.000	-.000
20	2	.003	-.000	.012	.000	-.000	.000	0.000	0.000	.000	.000
20	3	.003	-.000	.027	-.001	-.000	.000	0.000	0.000	.000	.000
30	1	.022	-.007	.057	.004	-.000	-.000	0.000	0.000	-.000	-.001
30	2	.003	-.000	.012	.000	-.000	.000	0.000	0.000	.000	.000
30	3	.007	-.000	.061	-.003	-.000	.000	0.000	0.000	.000	.000
40	1	.023	-.008	.079	.005	-.000	.000	0.000	0.000	-.000	-.000
40	2	.003	-.000	.012	.000	-.000	.000	0.000	0.000	.000	.000
40	3	.010	-.000	.086	-.005	-.000	.000	0.000	0.000	.000	.000
50	1	.021	-.008	.088	.006	-.001	.000	0.000	0.000	-.000	-.000
50	2	.002	-.000	.012	.000	-.000	.000	0.000	0.000	.000	.000
50	3	.012	-.001	.096	-.005	-.000	.000	0.000	0.000	-.000	.000
57	1	.013	-.005	.068	.004	-.001	.000	0.000	0.000	-.000	.001
57	2	.002	-.000	.012	.000	-.000	.000	0.000	0.000	.000	.000
57	3	.011	-.000	.075	-.004	.000	.000	0.000	0.000	-.000	-.000
70	1	.008	-.001	.020	.001	-.000	.000	0.000	0.000	.000	.000
70	2	.002	-.000	.012	.000	-.000	.000	0.000	0.000	.000	.000
70	3	.007	-.000	.027	-.001	.000	.000	0.000	0.000	-.000	-.000
85	1	-.000	-.000	-.000	.000	-.000	.000	0.000	0.000	-.000	-.000
85	2	.000	.000	.001	-.000	.000	.000	0.000	0.000	.000	.000
85	3	.000	-.000	.001	-.000	.000	.000	0.000	0.000	-.000	-.000
90	1	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
90	2	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
90	3	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
100	1	0.000	0.000	0.000	0.000	0.000	0.000	.007	.002	0.000	0.000
100	2	0.000	0.000	0.000	0.000	0.000	0.000	.005	-.000	0.000	0.000
100	3	0.000	0.000	0.000	0.000	0.000	0.000	.008	-.000	0.000	0.000
107	1	0.000	0.000	0.000	0.000	0.000	0.000	.012	.003	0.000	0.000
107	2	0.000	0.000	0.000	0.000	0.000	0.000	.005	-.000	0.000	0.000
107	3	0.000	0.000	0.000	0.000	0.000	0.000	.019	-.002	0.000	0.000
115	1	0.000	0.000	0.000	0.000	0.000	0.000	.015	.004	0.000	0.000
115	2	0.000	0.000	0.000	0.000	0.000	0.000	.005	-.000	0.000	0.000
115	3	0.000	0.000	0.000	0.000	0.000	0.000	.025	-.003	0.000	0.000
125	1	0.000	0.000	0.000	0.000	0.000	0.000	.012	.004	0.000	0.000
125	2	0.000	0.000	0.000	0.000	0.000	0.000	.005	-.000	0.000	0.000
125	3	0.000	0.000	0.000	0.000	0.000	0.000	.023	-.002	0.000	0.000
135	1	0.000	0.000	0.000	0.000	0.000	0.000	.004	.001	0.000	0.000
135	2	0.000	0.000	0.000	0.000	0.000	0.000	.005	-.000	0.000	0.000
135	3	0.000	0.000	0.000	0.000	0.000	0.000	.010	-.001	0.000	0.000
150	1	0.000	0.000	0.000	0.000	0.000	0.000	-.000	.000	0.000	0.000
150	2	0.000	0.000	0.000	0.000	0.000	0.000	.001	-.000	0.000	0.000
150	3	0.000	0.000	0.000	0.000	0.000	0.000	.001	-.000	0.000	0.000
167	1	.019	-.003	.029	.002	.000	-.000	0.000	0.000	.000	-.000
167	2	-.005	.042	-.002	-.001	.000	.000	0.000	0.000	.000	.004
167	3	.220	-.001	.036	-.000	.002	-.000	0.000	0.000	.002	-.001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

175	1	.019	-.003	.029	.002	.000	-.000	0.000	0.000	.000	-.000
175	2	-.012	.100	.008	.001	.000	.001	0.000	0.000	.000	.002

175	1	.019	-.003	.029	.002	.000	-.000	0.000	0.000	.000	-.000
175	2	-.012	.100	.008	.001	.000	.001	0.000	0.000	.000	.002
175	3	.492	-.000	.020	.000	.003	-.000	0.000	0.000	.002	-.001
190	1	.072	-.001	.027	.002	.002	-.000	0.000	0.000	-.001	-.000
190	2	-.019	.165	.034	.003	.001	.001	0.000	0.000	-.000	-.006
190	3	.772	.001	-.003	.001	.007	-.000	0.000	0.000	-.000	.001
205	1	.100	-.000	.029	.003	.005	-.000	0.000	0.000	-.001	-.000
205	2	-.015	.145	.037	.002	.000	.000	0.000	0.000	-.000	-.004
205	3	.750	.001	-.007	.000	.004	-.000	0.000	0.000	-.000	.001
220	1	.097	-.000	.031	.003	.007	-.000	0.000	0.000	-.001	.000
220	2	-.007	.167	.032	.001	-.001	-.001	0.000	0.000	-.000	.001
220	3	.749	.001	-.015	-.000	-.001	.000	0.000	0.000	-.000	.000
240	1	.052	-.000	.023	.002	.009	-.000	0.000	0.000	-.001	.001
240	2	-.004	.056	.024	.001	-.001	-.001	0.000	0.000	-.000	-.000
240	3	.750	.001	-.015	-.000	-.001	.000	0.000	0.000	-.000	.000
255	3	.750	.001	-.015	-.000	-.002	.000	0.000	0.000	-.000	.000

MODE AND FREQUENCY

LUMP	DIR	11	12	13	14	15	16	17	18	19	20
		21.273	23.561	27.611	28.677	31.573	32.317	38.573	41.836	47.390	48.929
15	1	.000	.000	.000	.000	.000	0.000	.000	0.000	0.000	-.000
15	2	-.000	.000	-.000	.000	.001	0.000	-.000	0.000	0.000	-.000
15	3	-.000	.000	-.000	.000	.000	0.000	-.000	0.000	0.000	.000
20	1	.000	.001	.000	.000	.000	0.000	.000	0.000	0.000	-.000
20	2	-.000	.000	-.000	.000	.001	0.000	-.000	0.000	0.000	-.000
20	3	-.000	.000	-.000	.000	.000	0.000	-.000	0.000	0.000	.000
30	1	.000	.001	.000	.000	-.000	0.000	-.000	0.000	0.000	-.000
30	2	-.000	.000	-.000	.000	.001	0.000	-.000	0.000	0.000	-.000
30	3	-.000	.001	-.000	-.000	-.000	0.000	.000	0.000	0.000	.000
40	1	.000	.000	.000	-.000	-.001	0.000	-.000	0.000	0.000	.000
40	2	-.000	.000	-.000	.000	.001	0.000	-.000	0.000	0.000	-.000
40	3	-.000	.001	-.000	-.000	-.001	0.000	.000	0.000	0.000	-.000
50	1	.000	.000	.000	-.000	-.001	0.000	-.000	0.000	0.000	.000
50	2	-.000	.000	-.000	.000	.001	0.000	-.000	0.000	0.000	-.000
50	3	-.000	.000	-.000	-.000	-.001	0.000	.000	0.000	0.000	-.000
57	1	-.000	-.000	-.000	.000	.000	0.000	.000	0.000	0.000	-.000
57	2	-.000	.000	-.000	.000	.001	0.000	-.000	0.000	0.000	-.000
57	3	.000	-.000	.000	.000	.000	0.000	-.000	0.000	0.000	.000
70	1	-.000	-.000	-.000	.000	.001	0.000	.000	0.000	0.000	-.000
70	2	-.000	.000	-.000	.000	.001	0.000	-.000	0.000	0.000	-.000
70	3	.000	-.001	.000	.000	.001	0.000	-.000	0.000	0.000	.000
85	1	.000	-.000	-.000	-.000	-.000	0.000	.000	0.000	0.000	-.000
85	2	-.000	.000	.000	.000	.000	0.000	-.000	0.000	0.000	.000
85	3	.000	-.000	.000	.000	.000	0.000	-.000	0.000	0.000	.000
90	1	0.000	0.000	0.000	0.000	0.000	-.000	0.000	.000	-.000	0.000
90	2	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000
90	3	0.000	0.000	0.000	0.000	0.000	-.000	0.000	.000	-.000	0.000
100	1	0.000	0.000	0.000	0.000	0.000	-.000	0.000	.000	-.000	0.000
100	2	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000
100	3	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	-.000	0.000
107	1	0.000	0.000	0.000	0.000	0.000	-.000	0.000	.000	.000	0.000
107	2	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000

107	3	0.000	0.000	0.000	0.000	0.000	.000	0.000	-.000	-.000	0.000
115	1	0.000	0.000	0.000	0.000	0.000	.000	0.000	-.000	.000	0.000

107	3	0.000	0.000	0.000	0.000	0.000	.000	0.000	-.000	-.000	0.000
115	1	0.000	0.000	0.000	0.000	0.000	.000	0.000	-.000	.000	0.000
115	2	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000
115	3	0.000	0.000	0.000	0.000	0.000	-.000	0.000	-.000	-.000	0.000
125	1	0.000	0.000	0.000	0.000	0.000	.000	0.000	-.000	.000	0.000
125	2	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000
125	3	0.000	0.000	0.000	0.000	0.000	-.000	0.000	-.000	.000	0.000
135	1	0.000	0.000	0.000	0.000	0.000	.000	0.000	-.000	-.000	0.000
135	2	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000
135	3	0.000	0.000	0.000	0.000	0.000	-.000	0.000	.000	.000	0.000
150	1	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	-.000	0.000
150	2	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000
150	3	0.000	0.000	0.000	0.000	0.000	-.000	0.000	.000	.000	0.000
167	1	.000	.001	.000	.000	.000	0.000	.000	0.000	0.000	-.000
167	2	.000	.000	-.000	.000	-.000	0.000	-.000	0.000	0.000	.000
167	3	.000	-.000	.000	.000	.000	0.000	.000	0.000	0.000	.000
175	1	.000	.001	.000	.000	.000	0.000	.000	0.000	0.000	-.000
175	2	.000	-.000	.000	.000	-.001	0.000	-.000	0.000	0.000	-.000
175	3	-.000	-.001	-.000	-.000	-.001	0.000	-.000	0.000	0.000	-.000
190	1	.000	.001	-.000	-.000	.001	0.000	.000	0.000	0.000	.000
190	2	-.000	-.000	-.000	.000	.000	0.000	-.000	0.000	0.000	-.000
190	3	-.000	-.001	-.000	-.000	-.001	0.000	-.000	0.000	0.000	-.000
205	1	.000	.001	-.000	-.000	.001	0.000	.000	0.000	0.000	.000
205	2	-.000	.000	.000	-.000	.000	0.000	-.000	0.000	0.000	-.000
205	3	-.000	-.000	-.000	-.000	-.000	0.000	-.000	0.000	0.000	-.000
220	1	.000	.000	-.000	-.000	.000	0.000	.000	0.000	0.000	.000
220	2	.000	-.000	.000	-.001	.001	0.000	.000	0.000	0.000	.000
220	3	.000	.000	.000	.000	.000	0.000	.000	0.000	0.000	.000
240	1	-.000	-.000	.000	.000	.000	0.000	.000	0.000	0.000	-.000
240	2	-.000	-.000	-.000	.001	-.000	0.000	-.000	0.000	0.000	-.000
240	3	.000	.000	.000	.000	.000	0.000	.000	0.000	0.000	.000
255	3	.000	.000	.000	.000	.000	0.000	.000	0.000	0.000	.000

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 1 FREQUENCY 1.93

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	215.	1125.	-3846.	115968.	-508360.	172316.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-215.	-1125.	3846.	-116628.	508966.	-172176.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
1	2	15	END	-215.	-1125.	3846.	6926.	554413.	-151973.	.0168	.0026	.0007	-.0001	.0006	.0001
2	1	15	BEG	228.	1127.	-3845.	-6926.	-554413.	151973.	.0168	.0026	.0007	-.0001	.0006	.0001
2	1	20	END	-228.	-1127.	3845.	87670.	554413.	-147181.	.0185	.0026	.0027	-.0001	.0006	.0001
3	1	20	BEG	253.	1116.	60.	-82059.	168707.	149476.	.0185	.0026	.0027	-.0001	.0006	.0001
3	1	25	END	-253.	-1116.	-60.	79922.	-168707.	-140472.	.0207	.0026	.0053	-.0001	.0006	.0001
3	2	30	END	-253.	-1116.	-60.	77785.	-168707.	-131469.	.0221	.0025	.0074	-.0001	.0006	.0000
4	1	30	BEG	280.	1119.	69.	-77785.	168707.	131469.	.0221	.0025	.0074	-.0001	.0006	.0000
4	1	35	END	-280.	-1119.	-69.	75334.	-168707.	-121521.	.0227	.0025	.0091	-.0000	.0005	.0000
4	2	40	END	-280.	-1119.	-69.	72882.	-168707.	-111574.	.0226	.0025	.0104	-.0000	.0005	-.0000
5	1	40	BEG	307.	1122.	81.	-72882.	168707.	111574.	.0226	.0025	.0104	-.0000	.0005	-.0000
5	1	45	END	-307.	-1122.	-81.	69986.	-168707.	-100664.	.0219	.0025	.0112	-.0000	.0005	-.0000
5	2	50	END	-307.	-1122.	-81.	67089.	-168707.	-89755.	.0207	.0025	.0117	-.0000	.0004	-.0000
6	1	50	BEG	344.	1127.	103.	-67089.	168707.	89755.	.0207	.0025	.0117	-.0000	.0004	-.0000
6	1	55	END	-344.	-1127.	-103.	60932.	-168707.	-69108.	.0174	.0024	.0116	.0000	.0004	-.0001
6	2	57	END	-344.	-1127.	-103.	54262.	-168707.	-46742.	.0129	.0024	.0107	.0000	.0003	-.0001
7	1	57	BEG	422.	1141.	168.	-54262.	168707.	46742.	.0129	.0024	.0107	.0000	.0003	-.0001
7	1	60	END	-422.	-1141.	-168.	47666.	-168707.	-30007.	.0099	.0024	.0098	.0000	.0003	-.0001
7	2	65	END	-422.	-1141.	-168.	40954.	-168707.	-13272.	.0066	.0024	.0086	.0000	.0002	-.0001
7	3	70	END	-422.	-1141.	-168.	35303.	-168707.	940.	.0038	.0024	.0073	.0000	.0002	-.0001
8	1	70	BEG	428.	1145.	179.	-35303.	168707.	-940.	.0038	.0024	.0073	.0000	.0002	-.0001
8	1	75	END	-428.	-1145.	-179.	35195.	-168707.	1197.	.0037	.0024	.0073	.0000	.0002	-.0001
8	2	80	END	-428.	-1145.	-179.	32768.	-178837.	71691.	-.0001	.0002	.0004	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-428.	-1145.	-179.	32843.	-178972.	72371.	-.0001	.0002	.0004	-.0000	.0000	-.0000
9	1	85	BEG	428.	1146.	182.	-32843.	178972.	-72371.	-.0001	.0002	.0004	-.0000	.0000	-.0000
9	1	86	END	-428.	-1146.	-182.	36363.	-185217.	103467.	-.0001	.0000	.0001	-.0000	.0000	-.0000
9	2	87	END	-428.	-1146.	-182.	45813.	-185217.	81224.	.0000	0.0000	-.0000	-.0000	0.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-6.	13.	-3902.	-5610.	-723120.	-2296.	.0185	.0026	.0027	-.0001	.0006	.0001
18	1	160	END	6.	-13.	3902.	5610.	602538.	1885.	.0185	.0002	.0400	-.0001	.0017	.0001
18	2	165	END	6.	-13.	3902.	5610.	481957.	1474.	.0185	-.0022	.1078	-.0001	.0026	.0001
18	3	167	END	6.	-13.	3902.	5610.	324147.	937.	.0185	-.0054	.2196	-.0001	.0029	.0001
19	1	167	BEG	27.	4.	-3515.	-5610.	-324147.	-937.	.0185	-.0054	.2196	-.0001	.0029	.0001
19	1	170	END	-27.	-4.	3515.	5610.	183166.	786.	.0185	-.0087	.3482	-.0000	.0034	.0001
19	2	175	END	-27.	-4.	3515.	5610.	42185.	635.	.0185	-.0121	.4924	-.0000	.0037	.0001
20	1	175	BEG	35.	-1.	-3303.	-5610.	-42185.	-635.	.0185	-.0121	.4924	-.0000	.0037	.0001
20	1	180	END	-35.	1.	3303.	5610.	-90271.	693.	.0185	-.0155	.6403	-.0000	.0036	.0001
20	2	185	END	-35.	1.	3303.	5610.	-153368.	720.	.0185	-.0171	.7087	.0000	.0035	.0001
20	3	190	END	-35.	1.	3303.	699.	-221995.	698.	.0717	-.0191	.7716	-.0000	.0019	.0001
21	1	190	BEG	58.	-7.	-3060.	-699.	221995.	-698.	.0717	-.0191	.7716	-.0000	.0019	.0001
21	1	195	END	-58.	7.	3060.	628.	-221975.	697.	.0724	-.0191	.7716	-.0000	.0019	.0001
21	2	200	END	-58.	7.	3060.	553.	-221954.	695.	.0731	-.0191	.7716	-.0000	.0019	.0001
21	3	205	END	-58.	7.	3060.	-3876.	-156496.	453.	.0998	-.0154	.7539	.0000	.0003	.0002
22	1	205	BEG	80.	-11.	-2894.	3876.	156496.	-453.	.0998	-.0154	.7539	.0000	.0003	.0002
22	1	210	END	-80.	11.	2894.	-3876.	-126108.	340.	.0998	-.0134	.7510	.0000	.0003	.0002
22	2	215	END	-80.	11.	2894.	-3876.	-95721.	226.	.0998	-.0114	.7488	.0000	.0002	.0002
22	3	220	END	-80.	11.	2894.	-3650.	-33275.	-0.	.0968	-.0072	.7495	-.0000	-.0003	.0002
23	1	220	BEG	124.	-14.	-2552.	3650.	33275.	-0.	.0968	-.0072	.7495	-.0000	-.0003	.0002
23	1	225	END	-124.	14.	2552.	-3420.	-31250.	0.	.0924	-.0069	.7495	-.0000	-.0003	.0002
23	2	230	END	-124.	14.	2552.	-2895.	-26625.	0.	.0807	-.0062	.7496	-.0000	-.0003	.0002

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-124.	14.	2552.	-2370.	-22001.	0.	.0671	-.0052	.7497	-.0000	-.0004	.0002
23	4	240	END	-124.	14.	2552.	-1845.	-17376.	0.	.0518	-.0041	.7498	-.0000	-.0004	.0002
24	1	240	BEG	155.	-16.	-2100.	1845.	17376.	0.	.0518	-.0041	.7498	-.0000	-.0004	.0002
24	1	245	END	-155.	16.	2100.	-1230.	-11584.	0.	.0352	-.0028	.7499	-.0000	-.0005	.0002
24	2	250	END	-155.	16.	2100.	-615.	-5792.	0.	.0178	-.0014	.7500	-.0000	-.0005	.0002
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	.0000	.7501	-.0000	-.0005	.0002
24	3	255	END	-155.	16.	2100.	0.	0.	0.	-.0000	.0000	.7501	-.0000	-.0005	.0002

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 1 FREQUENCY 1.93

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 1 FREQUENCY 1.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	215.	1125.	-3846.	115968.	-508360.	122316.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	13.	2.	1.	0.	0.	-0.	.0168	.0026	.0007	-.0001	.0006	.0001
3	20	19.	3.	3.	0.	-0.	-0.	.0185	.0026	.0027	-.0001	.0006	.0001
4	30	27.	3.	9.	0.	-0.	-0.	.0221	.0025	.0074	-.0001	.0006	.0000
5	40	27.	3.	13.	0.	0.	0.	.0226	.0025	.0104	-.0000	.0005	-.0000
6	50	38.	5.	21.	0.	-0.	0.	.0207	.0025	.0117	-.0000	.0004	-.0000
7	57	78.	15.	65.	-0.	-0.	0.	.0129	.0024	.0107	.0000	.0003	-.0001
8	70	6.	8.	11.	-0.	-0.	0.	.0038	.0024	.0073	.0000	.0002	-.0001
9	85	-1.	1.	2.	-0.	-0.	0.	-.0001	.0002	.0004	-.0000	.0000	-.0000
10	87	-428.	-1146.	-182.	45813.	-185217.	81224.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	33.	-10.	387.	-0.	-0.	-0.	.0185	-.0054	.2196	-.0001	.0029	.0001
20	175	8.	-5.	213.	0.	-0.	0.	.0185	-.0121	.4924	-.0000	.0037	.0001
21	190	23.	-6.	243.	-0.	0.	-0.	.0717	-.0191	.7716	-.0000	.0019	.0001
22	205	22.	-3.	166.	0.	-0.	-0.	.0998	-.0154	.7539	.0000	.0003	.0002
23	220	44.	-3.	342.	0.	0.	-0.	.0968	-.0072	.7495	-.0000	-.0003	.0002
24	240	31.	-2.	452.	0.	0.	0.	.0518	-.0041	.7498	-.0000	-.0004	.0002
25	255	-155.	16.	2100.	0.	0.	0.	-.0000	.0000	.7501	-.0000	-.0005	.0002

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 1 FREQUENCY 1.93

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 1 FREQUENCY 1.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 2 FREQUENCY 3.72

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-124.	-180.	-17.	8621.	-12949.	51870.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	124.	180.	17.	-8515.	12878.	-51892.	.0000	.0000	-.0000	-.0000	.0000	-.0000
1	2	15	END	124.	180.	17.	188.	7593.	-59146.	-.0015	-.0002	-.0001	.0000	-.0000	-.0001
2	1	15	BEG	-128.	-181.	-18.	-188.	-7593.	59146.	-.0015	-.0002	-.0001	.0000	-.0000	-.0001
2	1	20	END	128.	181.	18.	557.	7593.	-61833.	-.0029	-.0002	-.0002	.0000	-.0000	-.0001
3	1	20	BEG	-163.	720.	1.	3516.	-2795.	-105320.	-.0029	-.0002	-.0002	.0000	-.0000	-.0001
3	1	25	END	163.	-720.	-1.	-3543.	2795.	99512.	-.0051	-.0002	-.0003	.0000	-.0000	-.0001
3	2	30	END	163.	-720.	-1.	-3569.	2795.	93705.	-.0067	-.0002	-.0004	.0000	-.0000	-.0000
4	1	30	BEG	-193.	719.	-1.	3569.	-2795.	-93705.	-.0067	-.0002	-.0004	.0000	-.0000	-.0000
4	1	35	END	193.	-719.	1.	-3537.	2795.	86833.	-.0078	-.0002	-.0004	.0000	-.0000	-.0000
4	2	40	END	193.	-719.	1.	-3505.	2795.	79961.	-.0084	-.0002	-.0005	.0000	-.0000	-.0000
5	1	40	BEG	-231.	718.	-3.	3505.	-2795.	-79961.	-.0084	-.0002	-.0005	.0000	-.0000	-.0000
5	1	45	END	231.	-718.	3.	-3396.	2795.	71755.	-.0086	-.0002	-.0005	.0000	-.0000	.0000
5	2	50	END	231.	-718.	3.	-3287.	2795.	63550.	-.0083	-.0002	-.0005	.0000	-.0000	.0000
6	1	50	BEG	-287.	716.	-7.	3287.	-2795.	-63550.	-.0083	-.0002	-.0005	.0000	-.0000	.0000
6	1	55	END	287.	-716.	7.	-2887.	2795.	46358.	-.0070	-.0003	-.0005	-.0000	-.0000	.0000
6	2	57	END	287.	-716.	7.	-2453.	2795.	27736.	-.0051	-.0003	-.0005	-.0000	-.0000	.0000
7	1	57	BEG	-401.	710.	-17.	2453.	-2795.	-27736.	-.0051	-.0003	-.0005	-.0000	-.0000	.0000
7	1	60	END	401.	-710.	17.	-1781.	2795.	11841.	-.0037	-.0003	-.0004	-.0000	-.0000	.0000
7	2	65	END	401.	-710.	17.	-1109.	2795.	-4054.	-.0022	-.0003	-.0003	-.0000	-.0000	.0000
7	3	70	END	401.	-710.	17.	-536.	2795.	-17552.	-.0010	-.0003	-.0003	-.0000	-.0000	.0000
8	1	70	BEG	-407.	709.	-19.	538.	-2795.	17552.	-.0010	-.0003	-.0003	-.0000	-.0000	.0000
8	1	75	END	407.	-709.	19.	-527.	2795.	-17796.	-.0010	-.0003	-.0003	-.0000	-.0000	.0000
8	2	80	END	407.	-709.	19.	3800.	5629.	-4404.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	407.	-709.	19.	3846.	5667.	-3983.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	85	BEG	-408.	710.	-19.	-3846.	-5667.	3983.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	86	END	408.	-710.	19.	6026.	7429.	15269.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
9	2	87	END	408.	-710.	19.	5050.	7429.	36470.	.0000	.0000	-.0000	-.0000	0.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	24.	-901.	-19.	-4074.	-4798.	167154.	-.0029	-.0002	-.0002	.0000	-.0000	-.0001
18	1	160	END	-24.	901.	19.	4074.	4214.	-139323.	-.0029	.0062	-.0005	.0000	-.0000	-.0003
18	2	165	END	-24.	901.	19.	4074.	3629.	-111493.	-.0029	.0195	-.0006	.0000	-.0000	-.0005
18	3	167	END	-24.	901.	19.	4074.	2865.	-75070.	-.0029	.0424	-.0006	.0000	.0000	-.0006
19	1	167	BEG	5.	-622.	-23.	-4074.	-2865.	75070.	-.0029	.0424	-.0006	.0000	.0000	-.0006
19	1	170	END	-5.	622.	23.	4074.	1958.	-50118.	-.0029	.0692	-.0004	.0000	.0000	-.0007
19	2	175	END	-5.	622.	23.	4074.	1052.	-25167.	-.0029	.1003	-.0000	.0000	.0000	-.0008
20	1	175	BEG	1.	-461.	-23.	-4074.	-1052.	25167.	-.0029	.1003	-.0000	.0000	.0000	-.0008
20	1	180	END	-1.	461.	23.	4074.	144.	-6689.	-.0029	.1336	.0004	.0001	.0000	-.0008
20	2	185	END	-1.	461.	23.	4074.	-288.	2113.	-.0029	.1497	.0006	.0001	.0000	-.0008
20	3	190	END	-1.	461.	23.	13691.	-751.	11787.	-.0015	.1653	.0010	.0001	.0000	-.0008
21	1	190	BEG	-1.	-266.	-21.	-13691.	751.	-11787.	-.0015	.1653	.0010	.0001	.0000	-.0008
21	1	195	END	1.	266.	21.	13763.	-752.	11787.	-.0015	.1652	.0010	.0001	.0000	-.0008
21	2	200	END	1.	266.	21.	13877.	-752.	11787.	-.0015	.1652	.0010	.0001	.0000	-.0008
21	3	205	END	1.	266.	21.	19427.	-325.	6192.	-.0002	.1454	.0013	.0002	-.0000	-.0008
22	1	205	BEG	-1.	-147.	-20.	-19427.	325.	-6192.	-.0002	.1454	.0013	.0002	-.0000	-.0008
22	1	210	END	1.	147.	20.	19427.	-111.	4644.	-.0002	.1373	.0013	.0002	-.0000	-.0008
22	2	215	END	1.	147.	20.	19427.	104.	3096.	-.0002	.1292	.0013	.0002	-.0000	-.0008
22	3	220	END	1.	147.	20.	22523.	505.	0.	-.0003	.1071	.0014	.0003	-.0000	-.0008
23	1	220	BEG	-2.	35.	-18.	-22523.	-505.	0.	-.0003	.1071	.0014	.0003	-.0000	-.0008
23	1	225	END	2.	-35.	18.	21951.	474.	-0.	-.0003	.1016	.0014	.0003	-.0000	-.0008
23	2	230	END	2.	-35.	18.	20644.	405.	-0.	-.0003	.0879	.0014	.0004	.0000	-.0008

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	2.	-35.	18.	19337.	336.	-0.	-.0003	.0727	.0014	.0004	.0000	-.0008
23	4	240	END	2.	-35.	18.	18030.	267.	-0.	-.0002	.0561	.0014	.0005	.0000	-.0008
24	1	240	BEG	-2.	161.	-15.	-18030.	-267.	0.	-.0002	.0561	.0014	.0005	.0000	-.0008
24	1	245	END	2.	-161.	15.	12020.	178.	0.	-.0002	.0381	.0014	.0005	.0000	-.0008
24	2	250	END	2.	-161.	15.	6010.	89.	0.	-.0001	.0193	.0014	.0005	.0000	-.0008
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	0.0000	.0014	.0005	.0000	-.0008
24	3	255	END	2.	-161.	15.	0.	-0.	0.	.0000	0.0000	.0014	.0005	.0000	-.0008

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 2 FREQUENCY 3.72

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 2 FREQUENCY 3.72

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-124.	-186.	-17.	8621.	-12949.	51870.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-0.	-0.	-0.	-0.	0.	0.	-.0015	-.0002	-.0001	.0000	-.0000	-.0001
3	20	-11.	-1.	-1.	-0.	-0.	0.	-.0029	-.0002	-.0002	.0000	-.0000	-.0001
4	30	-30.	-1.	-2.	-0.	0.	0.	-.0067	-.0002	-.0004	.0000	-.0000	-.0000
5	40	-37.	-1.	-2.	-0.	0.	0.	-.0084	-.0002	-.0005	.0000	-.0000	-.0000
6	50	-56.	-2.	-4.	-0.	0.	-0.	-.0083	-.0002	-.0005	.0000	-.0000	.0000
7	57	-115.	-6.	-10.	0.	-0.	-0.	-.0051	-.0003	-.0005	-.0000	-.0000	.0000
8	70	-6.	-2.	-2.	0.	0.	-0.	-.0010	-.0003	-.0003	-.0000	-.0000	.0000
9	85	-1.	1.	-0.	0.	0.	0.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	87	408.	-710.	19.	5050.	7429.	36470.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-19.	278.	-4.	0.	0.	0.	-.0029	.0424	-.0006	.0000	.0000	-.0006
20	175	-5.	161.	-0.	-0.	0.	0.	-.0029	.1003	-.0000	.0000	.0000	-.0008
21	190	-2.	194.	1.	0.	-0.	0.	-.0015	.1653	.0010	.0001	.0000	-.0008
22	205	-0.	119.	1.	-0.	0.	0.	-.0002	.1454	.0013	.0002	-.0000	-.0008
23	220	-0.	182.	2.	-0.	0.	0.	-.0003	.1071	.0014	.0003	-.0000	-.0008
24	240	-1.	126.	3.	-0.	-0.	-0.	-.0002	.0561	.0014	.0005	.0000	-.0008
25	255	2.	-161.	15.	0.	-0.	0.	.0000	0.0000	.0014	.0005	.0000	-.0008

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 2 FREQUENCY 3.72

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 2 FREQUENCY 3.72

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 3 FREQUENCY 7.61

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-7079.	-284.	-5636.	324292.	-255599.	-407024.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	7079.	284.	5636.	-324125.	252146.	406989.	.0000	.0000	.0000	-.0000	.0000	.0000
1	2	15	END	7079.	284.	5636.	-57998.	-6729.	85771.	.0198	.0122	.0159	-.0005	.0003	.0004
2	1	15	BEG	-6840.	-137.	-5444.	57998.	6729.	-85771.	.0198	.0122	.0159	-.0005	.0003	.0004
2	1	20	END	6840.	137.	5444.	56317.	-6729.	-57866.	.0285	.0122	.0266	-.0005	.0003	.0004
3	1	20	BEG	-4972.	559.	-4825.	-50030.	-64812.	-63314.	.0285	.0122	.0266	-.0005	.0003	.0004
3	1	25	END	4972.	-559.	4825.	221704.	64812.	-113699.	.0431	.0122	.0442	-.0005	.0003	.0004
3	2	30	END	4972.	-559.	4825.	393379.	64812.	-290512.	.0570	.0122	.0606	-.0004	.0003	.0004
4	1	30	BEG	-3910.	786.	-3696.	-393379.	-64812.	290512.	.0570	.0122	.0606	-.0004	.0003	.0004
4	1	35	END	3910.	-786.	3696.	524876.	64812.	-429622.	.0693	.0122	.0747	-.0003	.0003	.0003
4	2	40	END	3910.	-786.	3696.	656373.	64812.	-568732.	.0790	.0122	.0858	-.0003	.0003	.0002
5	1	40	BEG	-2437.	1012.	-2097.	-656373.	-64812.	568732.	.0790	.0122	.0858	-.0003	.0003	.0002
5	1	45	END	2437.	-1012.	2097.	731000.	64812.	-655450.	.0855	.0121	.0931	-.0001	.0003	.0001
5	2	50	END	2437.	-1012.	2097.	805627.	64812.	-742167.	.0882	.0121	.0962	-.0000	.0004	.0000
6	1	50	BEG	51.	1354.	615.	-805627.	-64812.	742167.	.0882	.0121	.0962	-.0000	.0004	.0000
6	1	55	END	-51.	-1354.	-615.	768736.	64812.	-739087.	.0830	.0121	.0908	.0002	.0004	-.0002
6	2	57	END	-51.	-1354.	-615.	728775.	64812.	-735751.	.0677	.0121	.0749	.0003	.0004	-.0003
7	1	57	BEG	6445.	2494.	7692.	-728775.	-64812.	735751.	.0677	.0121	.0749	.0003	.0004	-.0003
7	1	60	END	-6445.	-2494.	-7692.	423997.	64812.	-480371.	.0535	.0120	.0604	.0004	.0004	-.0004
7	2	65	END	-6445.	-2494.	-7692.	119219.	64812.	-224991.	.0359	.0120	.0429	.0004	.0004	-.0005
7	3	70	END	-6445.	-2494.	-7692.	-139593.	64812.	-8127.	.0197	.0120	.0272	.0004	.0004	-.0005
8	1	70	BEG	6921.	2783.	8350.	139593.	-64812.	8127.	.0197	.0120	.0272	.0004	.0004	-.0005
8	1	75	END	-6921.	-2783.	-8350.	-144603.	64812.	-3975.	.0194	.0120	.0269	.0004	.0004	-.0005
8	2	80	END	-6921.	-2783.	-8350.	-506646.	-342784.	431975.	-.0001	.0006	.0012	.0000	.0001	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-6921.	-2783.	-8350.	-506466.	-348202.	433629.	-.0001	.0006	.0011	.0000	.0000	-.0000
9	1	85	BEG	6914.	2833.	8448.	506466.	348202.	-433629.	-.0001	.0006	.0011	.0000	.0000	-.0000
9	1	86	END	-6914.	-2833.	-8448.	-497764.	-598664.	510481.	-.0002	.0000	-.0001	.0000	.0000	-.0000
9	2	87	END	-6914.	-2833.	-8448.	-58482.	-598664.	150968.	.0000	.0000	.0000	.0000	.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-1410.	-500.	-192.	-6287.	71540.	121180.	.0285	.0122	.0266	-.0005	.0003	.0004
18	1	160	END	1410.	500.	192.	6287.	-77468.	-105722.	.0286	.0029	.0333	-.0005	.0002	.0002
18	2	165	END	1410.	500.	192.	6287.	-83396.	-90263.	.0286	-.0011	.0361	-.0005	.0000	.0001
18	3	167	END	1410.	500.	192.	6287.	-91154.	-70031.	.0286	-.0020	.0357	-.0005	-.0000	-.0000
19	1	167	BEG	-623.	-554.	790.	-6287.	91154.	70031.	.0286	-.0020	.0357	-.0005	-.0000	-.0000
19	1	170	END	623.	554.	-790.	6287.	-59481.	-47816.	.0287	.0011	.0304	-.0004	-.0002	-.0001
19	2	175	END	623.	554.	-790.	6287.	-27807.	-25600.	.0287	.0081	.0201	-.0004	-.0003	-.0002
20	1	175	BEG	-430.	-499.	925.	-6287.	27807.	25600.	.0287	.0081	.0201	-.0004	-.0003	-.0002
20	1	180	END	430.	499.	-925.	6287.	9290.	-5583.	.0287	.0174	.0074	-.0004	-.0003	-.0002
20	2	185	END	430.	499.	-925.	6287.	26961.	3953.	.0287	.0221	.0015	-.0004	-.0003	-.0002
20	3	190	END	430.	499.	-925.	18126.	37389.	15077.	.0265	.0344	-.0033	-.0003	-.0000	-.0002
21	1	190	BEG	-299.	-330.	909.	-18126.	-37389.	-15077.	.0265	.0344	-.0033	-.0003	-.0000	-.0002
21	1	195	END	299.	330.	-909.	18263.	37235.	15084.	.0265	.0345	-.0034	-.0003	-.0000	-.0002
21	2	200	END	299.	330.	-909.	18403.	37179.	15092.	.0265	.0346	-.0034	-.0003	-.0000	-.0002
21	3	205	END	299.	330.	-909.	26680.	11835.	8606.	.0286	.0366	-.0068	-.0002	.0002	-.0002
22	1	205	BEG	-201.	-205.	885.	-26680.	-11835.	-8606.	.0286	.0366	-.0068	-.0002	.0002	-.0002
22	1	210	END	201.	205.	-885.	26680.	2501.	6455.	.0286	.0348	-.0090	-.0002	.0002	-.0002
22	2	215	END	201.	205.	-885.	26680.	-6753.	4303.	.0286	.0331	-.0111	-.0002	.0002	-.0002
22	3	220	END	201.	205.	-885.	30983.	-29561.	-0.	.0311	.0320	-.0145	-.0000	.0000	-.0002
23	1	220	BEG	20.	23.	782.	-30983.	29561.	0.	.0311	.0320	-.0145	-.0000	.0000	-.0002
23	1	225	END	-20.	-23.	-782.	30609.	-29226.	-0.	.0315	.0324	-.0146	-.0000	.0000	-.0002
23	2	230	END	-20.	-23.	-782.	29754.	-28461.	-0.	.0309	.0319	-.0146	.0000	-.0000	-.0002

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-20.	-23.	-782.	28899.	-27697.	-0.	.0282	.0291	-.0146	.0001	-.0001	-.0002
23	3	240	END	-20.	-23.	-782.	28044.	-26932.	-0.	.0234	.0242	-.0147	.0002	-.0002	-.0002
24	1	240	BEG	240.	250.	644.	-28044.	26932.	0.	.0234	.0242	-.0147	.0002	-.0002	-.0002
24	1	245	END	-240.	-250.	-644.	18696.	-17955.	0.	.0167	.0173	-.0147	.0002	-.0002	-.0002
24	2	250	END	-240.	-250.	-644.	9348.	-8977.	0.	.0087	.0090	-.0147	.0002	-.0002	-.0002
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	-.0147	.0002	-.0002	-.0002
24	3	255	END	-240.	-250.	-644.	-0.	0.	0.	-.0000	-.0000	-.0147	.0002	-.0002	-.0002

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 3 FREQUENCY 7.61

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 3 FREQUENCY 7.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-7079.	-284.	-5636.	324292.	-255599.	-407024.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	239.	147.	192.	0.	-0.	-0.	.0198	.0122	.0159	-.0005	.0003	.0004
3	20	458.	196.	427.	0.	-0.	-0.	.0285	.0122	.0266	-.0005	.0003	.0004
4	30	1062.	227.	1129.	0.	-0.	-0.	.0570	.0122	.0606	-.0004	.0003	.0004
5	40	1473.	226.	1598.	0.	0.	-0.	.0790	.0122	.0858	-.0003	.0003	.0002
6	50	2489.	342.	2712.	0.	-0.	-0.	.0882	.0121	.0962	-.0000	.0004	.0000
7	57	6394.	1140.	7077.	-0.	0.	0.	.0677	.0121	.0749	.0003	.0004	-.0003
8	70	476.	269.	658.	-0.	-0.	0.	.0197	.0120	.0272	.0004	.0004	-.0005
9	85	-7.	49.	98.	-0.	-0.	0.	-.0001	.0006	.0011	.0000	.0000	-.0000
10	87	-6914.	-2833.	-8448.	-58482.	-598664.	150968.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	787.	-54.	982.	-0.	-0.	-0.	.0286	-.0020	.0357	-.0005	-.0000	-.0000
20	175	193.	55.	135.	-0.	0.	0.	.0287	.0061	.0201	-.0004	-.0003	-.0002
21	190	130.	169.	-16.	0.	0.	0.	.0265	.0344	-.0033	-.0003	-.0000	-.0002
22	205	96.	125.	-23.	-0.	-0.	0.	.0286	.0366	-.0068	-.0002	.0002	-.0002
23	220	221.	228.	-104.	0.	-0.	-0.	.0311	.0320	-.0145	-.0000	.0000	-.0002
24	240	220.	227.	-138.	-0.	0.	-0.	.0234	.0242	-.0147	.0002	-.0002	-.0002
25	255	-240.	-256.	-644.	-0.	0.	0.	-.0000	-.0000	-.0147	.0002	-.0002	-.0002

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 3 FREQUENCY 7.61

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 3 FREQUENCY 7.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 4 FREQUENCY 8.61

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-563.	-967.	434.	4956.	-14404.	-43412.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	563.	967.	-434.	-4386.	14019.	43292.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	563.	967.	-434.	18684.	-14819.	8906.	.0013	.0000	-.0006	.0000	.0000	.0000
2	1	15	BEG	-544.	-967.	425.	-18684.	14819.	-8906.	.0013	.0000	-.0006	.0000	.0000	.0000
2	1	20	END	544.	967.	-425.	9767.	-14819.	-2510.	.0018	.0000	-.0011	.0000	.0000	.0000
3	1	20	BEG	-373.	-939.	375.	-11117.	11549.	-6406.	.0018	.0000	-.0011	.0000	.0000	.0000
3	1	25	END	373.	939.	-375.	-2241.	-11549.	-6654.	.0026	.0001	-.0021	.0000	.0000	.0000
3	2	30	END	373.	939.	-375.	-15600.	-11549.	-20114.	.0037	.0001	-.0031	.0000	.0000	.0000
4	1	30	BEG	-285.	-937.	302.	15600.	11549.	20114.	.0037	.0001	-.0031	.0000	.0000	.0000
4	1	35	END	285.	937.	-302.	-26340.	-11549.	-30236.	.0045	.0001	-.0040	.0000	.0000	.0000
4	2	40	END	285.	937.	-302.	-37081.	-11549.	-40359.	.0051	.0001	-.0047	.0000	.0000	.0000
5	1	40	BEG	-162.	-935.	190.	37081.	11549.	40359.	.0051	.0001	-.0047	.0000	.0000	.0000
5	1	45	END	162.	935.	-190.	-43845.	-11549.	-46131.	.0055	.0001	-.0052	.0000	.0000	.0000
5	2	50	END	162.	935.	-190.	-50609.	-11549.	-51904.	.0056	.0001	-.0055	.0000	-.0000	-.0000
6	1	50	BEG	42.	-931.	-7.	50609.	11549.	51904.	.0056	.0001	-.0055	.0000	-.0000	-.0000
6	1	55	END	-42.	931.	7.	-50205.	-11549.	-49403.	.0052	.0001	-.0052	-.0000	-.0000	-.0000
6	2	57	END	-42.	931.	7.	-49767.	-11549.	-46695.	.0040	.0002	-.0043	-.0000	-.0000	-.0000
7	1	57	BEG	529.	-912.	-527.	49767.	11549.	46695.	.0040	.0002	-.0043	-.0000	-.0000	-.0000
7	1	60	END	-529.	912.	527.	-28877.	-11549.	-25741.	.0030	.0002	-.0034	-.0000	-.0000	-.0000
7	2	65	END	-529.	912.	527.	-7987.	-11549.	-4787.	.0016	.0002	-.0023	-.0000	-.0000	-.0000
7	3	70	END	-529.	912.	527.	9753.	-11549.	13006.	.0008	.0002	-.0014	-.0000	-.0000	-.0000
8	1	70	BEG	553.	-905.	-569.	-9753.	11549.	-13006.	.0008	.0002	-.0014	-.0000	-.0000	-.0000
8	1	75	END	-553.	905.	569.	10094.	-11549.	13338.	.0008	.0002	-.0013	-.0000	-.0000	-.0000
8	2	80	END	-553.	905.	569.	31240.	11180.	-2290.	.0001	-.0001	-.0001	-.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-553.	905.	569.	31181.	11482.	-2829.	.0001	-.0001	-.0001	-.0000	-.0000	.0000
9	1	85	BEG	559.	-913.	-575.	-31181.	-11482.	2829.	.0001	-.0001	-.0001	-.0000	-.0000	.0000
9	1	86	END	-559.	913.	575.	28376.	25360.	-27598.	.0001	-.0000	.0000	-.0000	-.0000	.0000
9	2	87	END	-559.	913.	575.	-1513.	25360.	-56688.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-134.	-27.	26.	1351.	3269.	8917.	.0018	.0000	-.0011	.0000	.0000	.0000
18	1	160	END	134.	27.	-26.	-1351.	-2472.	-8083.	.0018	-.0005	-.0008	.0000	.0000	.0000
18	2	165	END	134.	27.	-26.	-1351.	-1675.	-7250.	.0018	-.0007	-.0006	.0000	.0000	-.0000
18	3	167	END	134.	27.	-26.	-1351.	-631.	-6159.	.0018	-.0006	-.0003	.0000	.0000	-.0000
19	1	167	BEG	-69.	-48.	14.	1351.	631.	6159.	.0018	-.0006	-.0003	.0000	.0000	-.0000
19	1	170	END	69.	48.	-14.	-1351.	-58.	-4247.	.0018	-.0001	-.0001	.0000	.0000	-.0000
19	2	175	END	69.	48.	-14.	-1351.	514.	-2336.	.0018	.0007	.0000	.0000	.0000	-.0000
20	1	175	BEG	-53.	-42.	15.	1351.	-514.	2336.	.0018	.0007	.0000	.0000	.0000	-.0000
20	1	180	END	53.	42.	-15.	-1351.	1101.	-665.	.0018	.0017	.0003	.0000	.0000	-.0000
20	2	185	END	53.	42.	-15.	-1351.	1380.	131.	.0018	.0022	.0004	.0000	.0000	-.0000
20	3	190	END	53.	42.	-15.	-456.	572.	1086.	.0022	.0027	.0007	.0000	.0000	-.0000
21	1	190	BEG	-40.	-25.	19.	456.	-572.	-1086.	.0022	.0027	.0007	.0000	.0000	-.0000
21	1	195	END	40.	25.	-19.	-447.	558.	1087.	.0022	.0027	.0007	.0000	.0000	-.0000
21	2	200	END	40.	25.	-19.	-438.	544.	1088.	.0022	.0027	.0007	.0000	.0000	-.0000
21	3	205	END	40.	25.	-19.	106.	-678.	630.	.0026	.0022	.0003	.0000	.0000	-.0000
22	1	205	BEG	-28.	-15.	20.	-106.	678.	-630.	.0026	.0022	.0003	.0000	.0000	-.0000
22	1	210	END	28.	15.	-20.	106.	-689.	473.	.0026	.0020	.0001	.0000	.0000	-.0000
22	2	215	END	28.	15.	-20.	106.	-1100.	315.	.0026	.0018	-.0000	.0000	.0000	-.0000
22	3	220	END	28.	15.	-20.	421.	-2111.	-0.	.0028	.0013	-.0003	.0000	.0000	-.0000
23	1	220	BEG	-3.	-3.	18.	-421.	2111.	0.	.0028	.0013	-.0003	.0000	.0000	-.0000
23	1	225	END	3.	3.	-18.	470.	-2157.	-0.	.0028	.0013	-.0003	.0000	.0000	-.0000
23	2	230	END	3.	3.	-16.	582.	-2263.	-0.	.0027	.0012	-.0003	.0000	-.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	3.	3.	-18.	695.	-2368.	-0.	.0025	.0010	-.0003	.0000	-.0000	-.0000
23	4	240	END	3.	3.	-18.	808.	-2474.	-0.	.0021	.0008	-.0003	.0000	-.0000	-.0000
24	1	240	BEG	22.	7.	15.	-808.	2474.	0.	.0021	.0008	-.0003	.0000	-.0000	-.0000
24	1	245	END	-22.	-7.	-15.	538.	-1649.	0.	.0015	.0006	-.0003	.0000	-.0000	-.0000
24	2	250	END	-22.	-7.	-15.	269.	-825.	0.	.0006	.0003	-.0003	.0000	-.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	-.0003	.0000	-.0000	-.0000
24	3	255	END	-22.	-7.	-15.	-0.	0.	0.	-.0000	-.0000	-.0003	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 4 FREQUENCY 8.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-523.	-967.	434.	4956.	-14404.	-43412.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	19.	1.	-9.	-0.	-0.	-0.	.0013	.0000	-.0006	.0000	.0000	.0000
3	20	37.	1.	-23.	-0.	0.	-0.	.0018	.0000	-.0011	.0000	.0000	.0000
4	30	88.	2.	-74.	-0.	-0.	-0.	.0037	.0001	-.0031	.0000	.0000	.0000
5	40	122.	2.	-112.	-0.	-0.	-0.	.0051	.0001	-.0047	.0000	.0000	.0000
6	50	204.	4.	-197.	-0.	0.	0.	.0056	.0001	-.0055	.0000	-.0000	-.0000
7	57	487.	19.	-520.	0.	-0.	0.	.0040	.0002	-.0043	-.0000	-.0000	-.0000
8	70	24.	6.	-42.	0.	0.	0.	.0008	.0002	-.0016	-.0000	-.0000	-.0000
9	85	7.	-8.	-6.	0.	0.	-0.	.0001	-.0001	-.0001	-.0000	-.0000	.0000
10	87	-559.	913.	575.	-1513.	25360.	-56688.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	64.	-21.	-12.	0.	-0.	-0.	.0018	-.0006	-.0003	.0000	.0000	-.0000
20	175	16.	6.	0.	-0.	-0.	0.	.0018	.0007	.0000	.0000	.0000	-.0000
21	190	14.	17.	4.	0.	0.	0.	.0022	.0027	.0007	.0000	.0000	-.0000
22	205	11.	10.	1.	-0.	-0.	0.	.0026	.0022	.0003	.0000	.0000	-.0000
23	220	25.	12.	-2.	-0.	-0.	0.	.0028	.0013	-.0003	.0000	.0000	-.0000
24	240	25.	10.	-3.	-0.	0.	-0.	.0021	.0008	-.0003	.0000	-.0000	-.0000
25	255	-22.	-7.	-15.	-0.	0.	0.	-.0000	-.0000	-.0003	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 4 FREQUENCY 8.61

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 4 FREQUENCY 8.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 5 FREQUENCY 11.59

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-150.	148.	-47.	-3135.	-9469.	1249.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	150.	-148.	47.	3048.	9386.	-1230.	.0000	-.0000	-.0000	.0000	.0000	-.0000
1	2	15	END	150.	-148.	47.	-1371.	3228.	-6587.	.0002	-.0006	-.0001	.0000	.0000	-.0000
2	1	15	BEG	-144.	147.	-49.	1371.	-3228.	6587.	.0002	-.0000	-.0001	.0000	.0000	-.0000
2	1	20	END	144.	-147.	49.	-341.	3228.	-9605.	.0002	-.0001	-.0001	.0000	.0000	-.0000
3	1	20	BEG	103.	139.	1.	603.	2105.	10199.	.0002	-.0001	-.0001	.0000	.0000	-.0000
3	1	25	END	-103.	-139.	-1.	-647.	-2105.	-6543.	.0001	-.0001	-.0001	-.0000	.0000	-.0000
3	2	30	END	-103.	-139.	-1.	-691.	-2105.	-2887.	-.0001	-.0001	-.0001	-.0000	.0000	-.0000
4	1	30	BEG	98.	137.	-2.	691.	2105.	2887.	-.0001	-.0001	-.0001	-.0000	.0000	-.0000
4	1	35	END	-98.	-137.	2.	-611.	-2105.	600.	-.0003	-.0001	-.0001	-.0000	.0000	-.0000
4	2	40	END	-98.	-137.	2.	-532.	-2105.	4086.	-.0005	-.0001	-.0001	-.0000	.0000	-.0000
5	1	40	BEG	78.	135.	-5.	532.	2105.	-4086.	-.0005	-.0001	-.0001	-.0000	.0000	-.0000
5	1	45	END	-78.	-135.	5.	-357.	-2105.	6855.	-.0006	-.0001	-.0000	-.0000	.0000	-.0000
5	2	50	END	-78.	-135.	5.	-182.	-2105.	9623.	-.0007	-.0001	-.0000	-.0000	.0000	-.0000
6	1	50	BEG	30.	130.	-7.	182.	2105.	-9623.	-.0007	-.0001	-.0000	-.0000	.0000	-.0000
6	1	55	END	-30.	-130.	7.	236.	-2105.	11416.	-.0008	-.0001	-.0000	-.0000	.0000	.0000
6	2	57	END	-30.	-130.	7.	689.	-2105.	13359.	-.0007	-.0001	.0000	-.0000	.0000	.0000
7	1	57	BEG	-125.	116.	-1.	-689.	2105.	-13359.	-.0007	-.0001	.0000	-.0000	.0000	.0000
7	1	60	END	125.	-116.	1.	736.	-2105.	8805.	-.0006	-.0001	.0000	-.0000	.0000	.0000
7	2	65	END	125.	-116.	1.	783.	-2105.	3451.	-.0006	-.0001	.0000	-.0000	.0000	.0000
7	3	70	END	125.	-116.	1.	822.	-2105.	-755.	-.0002	-.0001	.0001	-.0000	.0000	.0000
8	1	70	BEG	-135.	112.	2.	-822.	2105.	755.	-.0002	-.0001	.0001	-.0000	.0000	.0000
8	1	75	END	135.	-112.	-2.	821.	-2105.	-830.	-.0002	-.0001	.0001	-.0000	.0000	.0000
8	2	80	END	135.	-112.	-2.	1297.	-1513.	-1925.	-.0000	.0000	.0000	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	135.	-112.	-2.	1305.	-1505.	-1859.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	85	BEG	-137.	113.	3.	-1305.	1505.	1859.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	86	END	137.	-113.	-3.	1652.	-1153.	1210.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	2	87	END	137.	-113.	-3.	1784.	-1153.	8333.	.0000	.0000	-.0000	-.0000	-.0000	0.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-240.	5.	-53.	-261.	-5333.	-594.	.0002	-.0001	-.0001	.0000	.0000	-.0000
18	1	160	END	240.	-5.	53.	261.	3683.	426.	.0002	.0000	.0003	.0000	.0000	-.0000
18	2	165	END	240.	-5.	53.	261.	2032.	258.	.0002	.0001	.0008	.0000	.0000	-.0000
18	3	167	END	240.	-5.	53.	261.	-128.	39.	.0002	.0001	.0016	.0000	.0000	-.0000
19	1	167	BEG	-227.	12.	47.	-261.	128.	-39.	.0002	.0001	.0016	.0000	.0000	-.0000
19	1	170	END	227.	-12.	-47.	261.	1748.	-450.	.0002	.0002	.0024	.0000	.0000	-.0000
19	2	175	END	227.	-12.	-47.	261.	3624.	-938.	.0002	.0002	.0033	.0000	.0000	-.0000
20	1	175	BEG	-223.	16.	98.	-261.	-3624.	938.	.0002	.0002	.0033	.0000	.0000	-.0000
20	1	180	END	223.	-16.	-98.	261.	7571.	-1575.	.0002	.0004	.0046	.0000	.0000	-.0000
20	2	185	END	223.	-16.	-98.	261.	9452.	-1878.	.0002	.0005	.0050	.0000	.0000	-.0000
20	3	190	END	223.	-16.	-98.	76.	6839.	-1878.	.0023	.0007	.0070	.0000	.0001	-.0000
21	1	190	BEG	-197.	24.	178.	-76.	-6839.	1878.	.0023	.0007	.0070	.0000	.0001	-.0000
21	1	195	END	197.	-24.	-178.	72.	6770.	-1873.	.0023	.0007	.0070	.0000	.0001	-.0000
21	2	200	END	197.	-24.	-178.	68.	6700.	-1868.	.0024	.0007	.0070	.0000	.0001	-.0000
21	3	205	END	197.	-24.	-178.	-171.	-1170.	-1065.	.0053	.0002	.0040	.0000	.0001	-.0000
22	1	205	BEG	-156.	25.	210.	171.	1170.	1065.	.0053	.0002	.0040	.0000	.0001	-.0000
22	1	210	END	156.	-25.	-210.	-171.	-3373.	-799.	.0053	-.0001	.0025	.0000	.0001	-.0000
22	2	215	END	156.	-25.	-210.	-171.	-5576.	-532.	.0053	-.0004	.0010	.0000	.0001	-.0000
22	3	220	END	156.	-25.	-210.	-704.	-13248.	0.	.0073	-.0011	-.0015	.0000	.0001	-.0000
23	1	220	BEG	-35.	7.	186.	704.	13248.	0.	.0073	-.0011	-.0015	.0000	.0001	-.0000
23	1	225	END	35.	-7.	-186.	-819.	-13621.	-0.	.0082	-.0011	-.0015	.0000	.0001	-.0000
23	2	230	END	35.	-7.	-186.	-1081.	-15129.	-0.	.0096	-.0012	-.0015	-.0000	.0000	-.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	35.	-7.	-186.	-1344.	-16437.	-0.	.0098	-.0011	-.0015	-.0000	-.0000	-.0000
23	4	240	END	35.	-7.	-186.	-1606.	-17745.	-0.	.0089	-.0010	-.0015	-.0000	-.0000	-.0000
24	1	240	BEG	158.	-14.	153.	1606.	17745.	0.	.0089	-.0010	-.0015	-.0000	-.0000	-.0000
24	1	245	END	-158.	14.	-153.	-1071.	-11830.	0.	.0066	-.0007	-.0015	-.0000	-.0001	-.0000
24	2	250	END	-158.	14.	-153.	-535.	-5915.	0.	.0035	-.0004	-.0015	-.0000	-.0001	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	0.0000	-.0015	-.0000	-.0001	-.0000
24	3	255	END	-158.	14.	-153.	0.	0.	0.	-.0000	0.0000	-.0015	-.0000	-.0001	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 5 FREQUENCY 11.59

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 5 FREQUENCY 11.59

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-150.	148.	-47.	-3135.	-9669.	1249.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	6.	-1.	-2.	-0.	-0.	0.	.0002	-.0000	-.0001	.0000	.0000	-.0000
3	20	7.	-2.	-3.	0.	-0.	0.	.0002	-.0001	-.0001	.0000	.0000	-.0000
4	30	-5.	-2.	-3.	0.	-0.	0.	-.0001	-.0001	-.0001	-.0000	.0000	-.0000
5	40	-20.	-3.	-3.	0.	0.	0.	-.0005	-.0001	-.0001	-.0000	.0000	-.0000
6	50	-48.	-4.	-2.	0.	0.	0.	-.0007	-.0001	-.0000	-.0000	.0000	-.0000
7	57	-155.	-15.	6.	0.	-0.	-0.	-.0007	-.0001	.0000	-.0000	.0000	.0000
8	70	-10.	-4.	3.	-0.	-0.	-0.	-.0002	-.0001	.0001	-.0000	.0000	.0000
9	85	-2.	2.	1.	0.	0.	0.	-.0000	.0000	.0000	-.0000	.0000	-.0000
10	87	137.	-113.	-3.	1784.	-1153.	5333.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	13.	7.	100.	0.	-0.	0.	.0002	.0001	.0016	.0000	.0000	-.0000
20	175	3.	4.	52.	0.	-0.	0.	.0002	.0002	.0033	.0000	.0000	-.0000
21	190	26.	8.	80.	0.	0.	0.	.0023	.0007	.0070	.0000	.0001	-.0000
22	205	42.	1.	32.	-0.	-0.	0.	.0053	.0002	.0040	.0000	.0001	-.0000
23	220	121.	-18.	-24.	-0.	-0.	0.	.0073	-.0011	-.0015	.0000	.0001	-.0000
24	240	193.	-21.	-32.	-0.	0.	-0.	.0089	-.0010	-.0015	-.0000	-.0000	-.0000
25	255	-158.	14.	-153.	0.	0.	0.	-.0000	0.0000	-.0015	-.0000	-.0001	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 5 FREQUENCY 11.59

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 5 FREQUENCY 11.59

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 6 FREQUENCY 13.07

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-4.	-16.	-1.	426.	-36.	-128.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	4.	16.	1.	-416.	34.	126.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	4.	16.	1.	293.	-122.	-185.	-.0000	.0000	.0000	.0000	-.0000	-.0000
2	1	15	BEG	-4.	-15.	-0.	-293.	122.	185.	-.0000	.0000	.0000	.0000	-.0000	-.0000
2	1	20	END	4.	15.	0.	300.	-122.	-262.	-.0000	.0000	.0000	.0000	-.0000	-.0000
3	1	20	BEG	-6.	-4.	-2.	359.	-63.	-945.	-.0000	.0000	.0000	.0000	-.0000	-.0000
3	1	25	END	6.	4.	2.	-279.	63.	725.	-.0000	.0000	.0000	.0000	-.0000	.0000
3	2	30	END	6.	4.	2.	-198.	63.	504.	-.0000	.0000	.0000	-.0000	-.0000	.0000
4	1	30	BEG	-6.	-3.	-2.	198.	-63.	-504.	-.0000	.0000	.0000	-.0000	-.0000	.0000
4	1	35	END	6.	3.	2.	-121.	63.	282.	.0000	.0000	.0000	-.0000	-.0000	.0000
4	2	40	END	6.	3.	2.	-45.	63.	60.	.0000	.0000	.0000	-.0000	-.0000	.0000
5	1	40	BEG	-6.	-3.	-2.	45.	-63.	-60.	.0000	.0000	.0000	-.0000	-.0000	.0000
5	1	45	END	6.	3.	2.	21.	63.	-139.	.0000	.0000	.0000	-.0000	-.0000	.0000
5	2	50	END	6.	3.	2.	88.	63.	-337.	.0000	.0000	.0000	-.0000	.0000	.0000
6	1	50	BEG	-3.	-2.	-1.	-88.	-63.	337.	.0000	.0000	.0000	-.0000	.0000	.0000
6	1	55	END	3.	2.	1.	154.	63.	-536.	.0000	.0000	.0000	-.0000	.0000	.0000
6	2	57	END	3.	2.	1.	225.	63.	-755.	.0000	.0000	.0000	.0000	.0000	-.0000
7	1	57	BEG	6.	-0.	2.	-225.	-63.	755.	.0000	.0000	.0000	.0000	.0000	-.0000
7	1	60	END	-6.	0.	-2.	142.	63.	-518.	.0000	.0000	.0000	.0000	.0000	-.0000
7	2	65	END	-6.	0.	-2.	59.	63.	-280.	.0000	.0000	.0000	.0000	.0000	-.0000
7	3	70	END	-6.	0.	-2.	-12.	63.	-78.	.0000	.0000	.0000	.0000	.0000	-.0000
8	1	70	BEG	7.	0.	2.	12.	-63.	78.	.0000	.0000	.0000	.0000	.0000	-.0000
8	1	75	END	-7.	-0.	-2.	-13.	63.	-74.	.0000	.0000	.0000	.0000	.0000	-.0000
8	2	80	END	-7.	-0.	-2.	-122.	-81.	253.	.0000	.0000	.0000	.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-7.	-0.	-2.	-122.	-83.	253.	.0000	.0000	.0000	.0000	.0000	-.0000
9	1	85	BEG	7.	1.	3.	122.	83.	-253.	.0000	.0000	.0000	.0000	.0000	-.0000
9	1	86	END	-7.	-1.	-3.	-121.	-174.	267.	.0000	.0000	.0000	.0000	.0000	-.0000
9	2	87	END	-7.	-1.	-3.	13.	-174.	-90.	.0000	0.0000	.0000	.0000	.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	2.	-11.	2.	-660.	185.	1207.	-.0000	.0000	.0000	.0000	-.0000	-.0000
18	1	160	END	-2.	11.	-2.	660.	-121.	-853.	-.0000	.0000	-.0000	.0000	-.0000	-.0000
18	2	165	END	-2.	11.	-2.	660.	-56.	-499.	-.0000	.0001	-.0000	.0000	-.0000	-.0000
18	3	167	END	-2.	11.	-2.	660.	29.	-35.	-.0000	.0002	-.0000	.0000	-.0000	-.0000
19	1	167	BEG	2.	8.	-1.	-660.	-29.	35.	-.0000	.0002	-.0000	.0000	-.0000	-.0000
19	1	170	END	-2.	-8.	1.	660.	-3.	-359.	-.0000	.0004	-.0001	.0000	-.0000	-.0000
19	2	175	END	-2.	-8.	1.	660.	-35.	-682.	-.0000	.0005	-.0001	.0000	-.0000	-.0000
20	1	175	BEG	2.	19.	-2.	-660.	35.	682.	-.0000	.0005	-.0001	.0000	-.0000	-.0000
20	1	180	END	-2.	-19.	2.	660.	-125.	-1426.	-.0000	.0007	-.0001	.0000	-.0000	-.0000
20	2	185	END	-2.	-19.	2.	660.	-168.	-1781.	-.0000	.0009	-.0001	.0000	-.0000	-.0000
20	3	190	END	-2.	-19.	2.	267.	-169.	-2174.	-.0000	.0010	-.0001	.0000	-.0000	-.0000
21	1	190	BEG	2.	33.	-4.	-267.	169.	2174.	-.0000	.0010	-.0001	.0000	-.0000	-.0000
21	1	195	END	-2.	-33.	4.	256.	-168.	-2174.	-.0000	.0010	-.0001	.0000	-.0000	-.0000
21	2	200	END	-2.	-33.	4.	244.	-168.	-2174.	-.0000	.0010	-.0001	.0000	-.0000	-.0000
21	3	205	END	-2.	-33.	4.	-446.	-41.	-1490.	-.0000	.0003	-.0001	.0000	-.0000	-.0000
22	1	205	BEG	2.	35.	-5.	446.	41.	1490.	-.0000	.0003	-.0001	.0000	-.0000	-.0000
22	1	210	END	-2.	-35.	5.	-446.	7.	-1118.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000
22	2	215	END	-2.	-35.	5.	-446.	56.	-745.	-.0000	-.0003	-.0000	.0000	-.0000	-.0000
22	3	220	END	-2.	-35.	5.	-1192.	190.	0.	-.0001	-.0011	.0000	.0000	-.0000	-.0000
23	1	220	BEG	1.	12.	-4.	1192.	-190.	0.	-.0001	-.0011	.0000	.0000	-.0000	-.0000
23	1	225	END	-1.	-12.	4.	-1387.	200.	-0.	-.0001	-.0012	.0000	.0000	-.0000	-.0000
23	2	230	END	-1.	-12.	4.	-1832.	223.	-0.	-.0001	-.0014	.0000	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-1.	-12.	4.	-2278.	246.	-0.	-.0001	-.0014	.0000	-.0000	-.0000	-.0000
23	4	240	END	-1.	-12.	4.	-2724.	268.	-0.	-.0001	-.0013	.0000	-.0000	.0000	-.0000
24	1	240	BEG	-2.	-24.	-3.	2724.	-268.	0.	-.0001	-.0013	.0000	-.0000	.0000	-.0000
24	1	245	END	2.	24.	3.	-1816.	179.	0.	-.0001	-.0010	.0000	-.0000	.0000	-.0000
24	2	250	END	2.	24.	3.	-908.	89.	0.	-.0000	-.0005	.0000	-.0000	.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	.0000	.0000	-.0000	.0000	-.0000
24	3	255	END	2.	24.	3.	0.	-0.	0.	.0000	.0000	.0000	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 6 FREQUENCY 13.07

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 6 FREQUENCY 13.07

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-4.	-16.	-1.	426.	-36.	-128.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-0.	0.	0.	0.	0.	0.	-.0000	.0000	.0000	.0000	-.0000	-.0000
3	20	-0.	0.	0.	-0.	0.	0.	-.0000	.0000	.0000	.0000	-.0000	-.0000
4	30	-0.	0.	0.	0.	0.	-0.	-.0000	.0000	.0000	-.0000	-.0000	.0000
5	40	1.	0.	0.	0.	-0.	-0.	.0000	.0000	.0000	-.0000	-.0000	.0000
6	50	2.	1.	1.	0.	-0.	-0.	.0000	.0000	.0000	-.0000	.0000	.0000
7	57	9.	2.	3.	-0.	0.	0.	.0000	.0000	.0000	.0000	.0000	-.0000
8	70	1.	1.	0.	-0.	-0.	0.	.0000	.0000	.0000	.0000	.0000	-.0000
9	85	0.	0.	0.	-0.	-0.	0.	.0000	.0000	.0000	.0000	.0000	-.0000
10	87	-7.	-1.	-3.	13.	-174.	-90.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-0.	20.	-3.	0.	0.	0.	-.0000	.0002	-.0000	.0000	-.0000	-.0000
20	175	-0.	10.	-1.	-0.	0.	0.	-.0000	.0005	-.0001	.0000	-.0000	-.0000
21	190	-0.	14.	-2.	0.	-0.	0.	-.0000	.0010	-.0001	.0000	-.0000	-.0000
22	205	-0.	3.	-1.	-0.	0.	0.	-.0000	.0003	-.0001	.0000	-.0000	-.0000
23	220	-1.	-24.	1.	-0.	0.	0.	-.0001	-.0011	.0000	.0000	-.0000	-.0000
24	240	-3.	-36.	1.	-0.	0.	-0.	-.0001	-.0013	.0000	-.0000	.0000	-.0000
25	255	2.	24.	3.	0.	-0.	0.	.0000	.0000	.0000	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 6 FREQUENCY 13.07

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 6 FREQUENCY 13.07

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 7 FREQUENCY 13.84

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2	15	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	15	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	20	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	25	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2	30	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	30	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	35	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2	40	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	40	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	45	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2	50	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	50	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	55	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	2	57	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	57	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	60	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	2	65	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	3	70	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	70	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	75	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	85	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	86	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
9	2	87	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	87	BEG	-3172.	-956.	-4562.	-203582.	388485.	84426.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
10	1	88	END	3172.	956.	4562.	209007.	-262848.	-114525.	-.0000	-.0001	.0002	.0000	-.0000	-.0000
10	2	90	END	3172.	956.	4562.	181363.	-147352.	-119503.	.0004	.0002	.0003	.0000	-.0000	-.0000
11	1	90	BEG	-3088.	-902.	-4499.	-181363.	147352.	119503.	.0004	.0002	.0003	.0000	-.0000	-.0000
11	1	95	END	3088.	902.	4499.	180838.	-145084.	-119598.	.0004	.0002	.0003	.0000	-.0000	-.0000
11	2	100	END	3088.	902.	4499.	-61555.	27580.	12155.	.0074	.0050	.0083	.0002	-.0001	-.0001
12	1	100	BEG	-2261.	-345.	-3569.	61555.	-27580.	-12155.	.0074	.0050	.0083	.0002	-.0001	-.0001
12	1	105	END	2261.	345.	3569.	-115083.	27580.	46073.	.0086	.0050	.0109	.0002	-.0001	-.0001
12	2	107	END	2261.	345.	3569.	-311339.	27580.	170431.	.0124	.0050	.0192	.0001	-.0001	-.0001
13	1	107	BEG	-412.	462.	-696.	311339.	-27580.	-170431.	.0124	.0050	.0192	.0001	-.0001	-.0001
13	1	110	END	412.	-402.	696.	-336015.	27580.	185032.	.0140	.0050	.0231	.0001	-.0001	-.0000
13	2	115	END	412.	-402.	696.	-360690.	27580.	199633.	.0146	.0050	.0251	.0000	-.0001	-.0000
14	1	115	BEG	486.	708.	847.	360690.	-27580.	-199633.	.0146	.0050	.0251	.0000	-.0001	-.0000
14	1	120	END	-486.	-708.	-847.	-330647.	27580.	182408.	.0140	.0056	.0250	-.0000	-.0001	.0000
14	2	125	END	-486.	-708.	-847.	-300603.	27580.	165183.	.0124	.0050	.0230	-.0001	-.0001	.0001
15	1	125	BEG	1384.	1067.	2511.	300603.	-27580.	-165183.	.0124	.0050	.0230	-.0001	-.0001	.0001
15	1	130	END	-1384.	-1067.	-2511.	-180057.	27580.	98753.	.0088	.0049	.0176	-.0001	-.0001	.0001
15	2	135	END	-1384.	-1067.	-2511.	-59511.	27580.	32323.	.0041	.0049	.0103	-.0002	-.0001	.0001
16	1	135	BEG	1681.	1428.	3269.	59511.	-27580.	-32323.	.0041	.0049	.0103	-.0002	-.0001	.0001
16	1	140	END	-1681.	-1428.	-3269.	-17530.	27580.	10730.	.0027	.0049	.0082	-.0002	-.0001	.0001
16	2	145	END	-1681.	-1428.	-3269.	153819.	84061.	-102073.	-.0001	.0008	.0006	-.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	-1681.	-1428.	-3269.	154862.	85105.	-103066.	-.0001	.0008	.0006	-.0000	-.0000	.0000
17	1	150	BEG	1676.	1465.	3295.	-154862.	-85105.	103066.	-.0001	.0008	.0006	-.0000	-.0000	.0000
17	1	155	END	-1676.	-1465.	-3295.	213341.	143496.	-158764.	.0000	.0000	-.0000	-.0000	-.0000	-.0000
18	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	160	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	2	165	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	3	167	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	167	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	170	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	2	175	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	175	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	180	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	2	185	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	3	190	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	190	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	195	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	2	200	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	3	205	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	205	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	210	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	2	215	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	3	220	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	220	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	225	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	2	230	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	4	240	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	240	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	245	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	2	250	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 7 FREQUENCY 13.84

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 7 FREQUENCY 13.84

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	20	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	30	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	40	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	50	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	57	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	70	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	85	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	87	-3172.	-956.	-4562.	-203582.	388485.	84426.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	84.	54.	63.	0.	0.	-0.	.0004	.0002	.0003	.0000	-.0000	-.0000
12	100	827.	556.	930.	-0.	0.	0.	.0074	.0050	.0083	.0002	-.0001	-.0001
13	107	1849.	747.	2873.	-0.	-0.	0.	.0124	.0050	.0192	.0001	-.0001	-.0001
14	115	898.	306.	1543.	-0.	-0.	-0.	.0146	.0050	.0251	.0000	-.0001	-.0000
15	125	898.	359.	1664.	0.	0.	-0.	.0124	.0050	.0230	-.0001	-.0001	.0001
16	135	297.	361.	757.	-0.	-0.	0.	.0041	.0049	.0103	-.0002	-.0001	.0001
17	150	-5.	37.	27.	0.	0.	-0.	-.0001	.0008	.0006	-.0000	-.0000	.0000
18	155	-1676.	-1465.	-3295.	213341.	143496.	-158764.	.0000	.0000	-.0000	-.0000	-.0000	-.0000
19	167	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	175	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	190	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	205	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	220	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	240	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	255	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 7 FREQUENCY 13.84

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 7 FREQUENCY 13.84

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 8 FREQUENCY 15.60

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2	15	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	15	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	20	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	25	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2	30	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	30	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	35	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2	40	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	40	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	45	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2	50	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	50	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	55	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	2	57	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	57	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	60	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	2	65	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	3	70	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	70	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	75	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	85	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	86	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	2	87	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	87	BEG	-1000.	-677.	514.	-19169.	27360.	12107.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
10	1	88	END	1000.	677.	-514.	23013.	-49221.	-33429.	-.0000	-.0000	.0000	.0000	-.0000	-.0000
10	2	90	END	1000.	677.	-514.	3430.	-22990.	-36956.	.0001	.0006	.0000	.0000	-.0000	-.0000
11	1	90	BEG	-983.	-670.	520.	-3430.	22990.	36956.	.0001	.0006	.0000	.0000	-.0000	-.0000
11	1	95	END	983.	670.	-520.	3040.	-22473.	-37026.	.0001	.0006	.0000	.0000	-.0000	-.0000
11	2	100	END	983.	670.	-520.	-3252.	16925.	1873.	.0016	-.0003	-.0004	-.0000	-.0000	-.0000
12	1	100	BEG	-751.	-708.	462.	3252.	-16925.	-1873.	.0016	-.0003	-.0004	-.0000	-.0000	-.0000
12	1	105	END	751.	708.	-462.	3683.	16925.	13134.	.0020	-.0003	-.0007	-.0000	-.0000	-.0000
12	2	107	END	751.	708.	-462.	29108.	16925.	54423.	.0033	-.0003	-.0017	-.0000	-.0000	-.0000
13	1	107	BEG	-118.	-757.	140.	-29108.	-16925.	-54423.	.0033	-.0003	-.0017	-.0000	-.0000	-.0000
13	1	110	END	118.	757.	-140.	34066.	16925.	58620.	.0039	-.0002	-.0022	-.0000	-.0000	-.0000
13	2	115	END	118.	757.	-140.	39024.	16925.	62816.	.0042	-.0002	-.0025	-.0000	-.0000	-.0000
14	1	115	BEG	206.	-776.	-57.	-39024.	-16925.	-62816.	.0042	-.0002	-.0025	-.0000	-.0000	-.0000
14	1	120	END	-206.	776.	57.	36991.	16925.	55521.	.0040	-.0002	-.0026	.0000	-.0000	.0000
14	2	125	END	-206.	776.	57.	34957.	16925.	48226.	.0036	-.0002	-.0025	.0000	.0000	.0000
15	1	125	BEG	535.	-795.	-286.	-34957.	-16925.	-48226.	.0036	-.0002	-.0025	.0000	.0000	.0000
15	1	130	END	-535.	795.	286.	21218.	16925.	22542.	.0026	-.0002	-.0020	.0000	.0000	.0000
15	2	135	END	-535.	795.	286.	7479.	16925.	-3143.	.0013	-.0002	-.0013	.0000	.0000	.0000
16	1	135	BEG	655.	-812.	-408.	-7479.	-16925.	3143.	.0013	-.0002	-.0013	.0000	.0000	.0000
16	1	140	END	-655.	812.	408.	2245.	16925.	-11557.	.0009	-.0002	-.0011	.0000	.0000	.0000
16	2	145	END	-655.	812.	408.	-31837.	-7459.	-17752.	.0001	-.0001	-.0001	.0000	.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	HE	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	-655.	812.	408.	-32202.	-7909.	-17441.	.0001	-.0001	-.0001	.0000	.0000	.0000
17	1	150	BEG	659.	-819.	-416.	32202.	7909.	17441.	.0001	-.0001	-.0001	.0000	.0000	.0000
17	1	155	END	-659.	819.	416.	-52535.	-33062.	-132.	0.0000	-.0000	-.0000	-.0000	.0000	-.0000
18	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	160	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	2	165	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	3	167	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	167	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	170	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	2	175	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	175	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	180	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	2	185	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	3	190	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	190	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	195	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	2	200	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	3	205	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	205	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	210	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	2	215	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	3	220	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	220	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	225	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	2	230	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	4	240	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	240	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	245	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	2	250	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 8 FREQUENCY 15.60

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 8 FREQUENCY 15.60

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	20	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	30	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	40	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	50	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	57	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	70	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	85	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	87	-1000.	-677.	514.	-19169.	27360.	12107.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	16.	7.	5.	-0.	0.	-0.	.0001	.0000	.0000	.0000	-.0000	-.0000
12	100	233.	-38.	-57.	0.	0.	0.	.0016	-.0003	-.0004	-.0000	-.0000	-.0000
13	107	632.	-49.	-322.	0.	0.	0.	.0033	-.0003	-.0017	-.0000	-.0000	-.0000
14	115	324.	-18.	-197.	0.	-0.	0.	.0042	-.0002	-.0025	-.0000	-.0000	-.0000
15	125	329.	-20.	-229.	-0.	0.	-0.	.0036	-.0002	-.0025	.0000	.0000	.0000
16	135	120.	-17.	-121.	0.	0.	0.	.0013	-.0002	-.0013	.0000	.0000	.0000
17	150	4.	-7.	-8.	-0.	-0.	0.	.0001	-.0001	-.0001	.0000	.0000	.0000
18	155	-659.	819.	416.	-52535.	-33062.	-132.	0.0000	-.0000	-.0000	-.0000	.0000	-.0000
19	167	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	175	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	190	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	205	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	220	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	240	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	255	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 8 FREQUENCY 15.60

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 8 FREQUENCY 15.60

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 9 FREQUENCY 15.93

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	68.	10.	-191.	4464.	-3830.	5562.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-68.	-10.	191.	-4470.	3894.	-5561.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
1	2	15	END	-68.	-10.	191.	3668.	8654.	-2425.	.0001	.0001	.0001	-.0000	.0000	-.0000
2	1	15	BEG	72.	15.	-185.	-3668.	-8654.	2425.	.0001	.0001	.0001	-.0000	.0000	-.0000
2	1	20	END	-72.	-15.	185.	7561.	8654.	-910.	.0001	.0001	.0001	-.0000	.0000	-.0000
3	1	20	BEG	8.	50.	37.	-7448.	2645.	-353.	.0001	.0001	.0001	-.0000	.0000	-.0000
3	1	25	END	-8.	-50.	-37.	6125.	-2645.	651.	.0000	.0001	.0002	-.0000	.0000	-.0000
3	2	30	END	-8.	-50.	-37.	4801.	-2645.	949.	-.0000	.0001	.0001	.0000	.0000	-.0000
4	1	30	BEG	7.	57.	48.	-4801.	2645.	-949.	-.0000	.0001	.0001	.0000	.0000	-.0000
4	1	35	END	-7.	-57.	-48.	3078.	-2645.	1214.	-.0000	.0001	.0001	.0000	.0000	-.0000
4	2	40	END	-7.	-57.	-48.	1355.	-2645.	1478.	-.0001	.0001	.0000	.0000	.0000	-.0000
5	1	40	BEG	2.	64.	51.	-1355.	2645.	-1478.	-.0001	.0001	.0000	.0000	.0000	-.0000
5	1	45	END	-2.	-64.	-51.	-443.	-2645.	1562.	-.0001	.0001	-.0000	.0000	.0000	-.0000
5	2	50	END	-2.	-64.	-51.	-2242.	-2645.	1646.	-.0001	.0001	-.0001	.0000	.0000	.0000
6	1	50	BEG	-8.	74.	36.	2242.	2645.	-1646.	-.0001	.0001	-.0001	.0000	.0000	.0000
6	1	55	END	8.	-74.	-36.	-4417.	-2645.	1194.	-.0001	.0001	-.0002	.0000	.0000	.0000
6	2	57	END	8.	-74.	-36.	-6772.	-2645.	706.	-.0000	.0001	-.0002	.0000	.0000	.0000
7	1	57	BEG	-22.	106.	-60.	6772.	2645.	-706.	-.0000	.0001	-.0002	.0000	.0000	.0000
7	1	60	END	22.	-106.	60.	-4391.	-2645.	-169.	-.0000	.0001	-.0002	-.0000	.0000	.0000
7	2	65	END	22.	-106.	60.	-2010.	-2645.	-1043.	.0000	.0001	-.0002	-.0000	.0000	.0000
7	3	70	END	22.	-106.	60.	12.	-2645.	-1786.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	1	70	BEG	-19.	114.	-70.	-12.	2645.	1786.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	1	75	END	19.	-114.	70.	55.	-2645.	-1798.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	2	80	END	19.	-114.	70.	3780.	596.	2432.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	19.	-114.	70.	3788.	639.	2499.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	85	BEG	-23.	118.	-72.	-3788.	-639.	-2499.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	86	END	23.	-118.	72.	4151.	2666.	5712.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
9	2	87	END	23.	-118.	72.	400.	2666.	6897.	.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	68.	-29.	-213.	-112.	-11298.	1264.	.0001	.0001	.0001	-.0000	.0000	-.0000
18	1	160	END	-68.	29.	213.	112.	4727.	-361.	.0001	.0001	.0006	-.0000	.0000	-.0000
18	2	165	END	-68.	29.	213.	112.	-1844.	541.	.0001	.0002	.0013	-.0000	.0000	-.0000
18	3	167	END	-68.	29.	213.	112.	-10445.	1721.	.0001	.0003	.0021	-.0000	.0000	-.0000
19	1	167	BEG	75.	8.	44.	-112.	10445.	-1721.	.0001	.0003	.0021	-.0000	.0000	-.0000
19	1	170	END	-75.	-8.	-44.	112.	-6665.	1385.	.0001	.0003	.0024	-.0000	-.0000	.0000
19	2	175	END	-75.	-8.	-44.	112.	-6885.	1049.	.0000	.0002	.0019	.0000	-.0000	.0000
20	1	175	BEG	76.	13.	101.	-112.	6885.	-1049.	.0000	.0002	.0019	.0000	-.0000	.0000
20	1	180	END	-76.	-13.	-101.	112.	-2836.	512.	.0000	-.0000	.0009	.0000	-.0000	.0000
20	2	185	END	-76.	-13.	-101.	112.	-907.	257.	.0000	-.0002	.0003	.0000	-.0000	.0000
20	3	190	END	-76.	-13.	-101.	-17.	2806.	-138.	-.0006	-.0003	-.0004	.0000	-.0000	.0000
21	1	190	BEG	63.	6.	92.	17.	-2806.	138.	-.0006	-.0003	-.0004	.0000	-.0000	.0000
21	1	195	END	-63.	-6.	-92.	-16.	2828.	-139.	-.0006	-.0003	-.0004	.0000	-.0000	.0000
21	2	200	END	-63.	-6.	-92.	-16.	2850.	-141.	-.0006	-.0003	-.0004	.0000	-.0000	.0000
21	3	205	END	-63.	-6.	-92.	-6.	2236.	-107.	-.0009	-.0002	-.0002	.0000	.0000	.0000
22	1	205	BEG	49.	3.	89.	6.	-2236.	107.	-.0009	-.0002	-.0002	.0000	.0000	.0000
22	1	210	END	-49.	-3.	-89.	-6.	1306.	-80.	-.0009	-.0002	-.0003	.0000	.0000	.0000
22	2	215	END	-49.	-3.	-89.	-6.	376.	-53.	-.0009	-.0001	-.0003	.0000	.0000	.0000
22	3	220	END	-49.	-3.	-89.	-60.	-449.	-0.	-.0009	-.0000	-.0003	.0000	-.0000	.0000
23	1	220	BEG	20.	1.	79.	60.	449.	-0.	-.0009	-.0000	-.0003	.0000	-.0000	.0000
23	1	225	END	-20.	-1.	-79.	-81.	-116.	0.	-.0010	-.0001	-.0003	.0000	-.0000	.0000
23	2	230	END	-20.	-1.	-79.	-130.	646.	0.	-.0010	-.0001	-.0003	.0000	-.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-20.	-1.	-79.	-180.	1408.	0.	-.0010	-.0001	-.0003	.0000	.0000	.0000
23	4	240	END	-20.	-1.	-79.	-229.	2170.	0.	-.0010	-.0001	-.0003	-.0000	.0000	.0000
24	1	240	BEG	-19.	-2.	65.	229.	-2170.	0.	-.0010	-.0001	-.0003	-.0000	.0000	.0000
24	1	245	END	19.	2.	-65.	-153.	1447.	0.	-.0007	-.0001	-.0003	-.0000	.0000	.0000
24	2	250	END	19.	2.	-65.	-76.	723.	0.	-.0004	-.0000	-.0003	-.0000	.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	.0000	-.0003	-.0000	.0000	.0000
24	3	255	END	19.	2.	-65.	0.	-0.	0.	.0000	.0000	-.0003	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 9 FREQUENCY 15.93

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 9 FREQUENCY 15.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	68.	10.	-191.	4464.	-3830.	5562.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	5.	5.	5.	0.	-0.	0.	.0001	.0001	.0001	-.0000	.0000	-.0000
3	20	4.	6.	10.	0.	-0.	0.	.0001	.0001	.0001	-.0000	.0000	-.0000
4	30	-1.	7.	11.	-0.	-0.	0.	-.0000	.0001	.0001	.0000	.0000	-.0000
5	40	-5.	7.	2.	-0.	0.	0.	-.0001	.0001	.0000	.0000	.0000	-.0000
6	50	-10.	10.	-14.	-0.	0.	-0.	-.0001	.0001	-.0001	.0000	.0000	.0000
7	57	-15.	32.	-96.	-0.	0.	-0.	-.0000	.0001	-.0002	.0000	.0000	.0000
8	70	3.	8.	-10.	0.	0.	-0.	.0000	.0001	-.0001	-.0000	-.0000	.0000
9	85	-3.	4.	-2.	0.	0.	0.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	87	23.	-118.	72.	400.	2666.	6897.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	7.	38.	257.	-0.	-0.	0.	.0001	.0003	.0021	-.0000	.0000	-.0000
20	175	1.	5.	57.	0.	0.	-0.	.0000	.0002	.0019	.0000	-.0000	.0000
21	190	-13.	-7.	-9.	-0.	0.	-0.	-.0006	-.0003	-.0004	.0000	-.0000	.0000
22	205	-14.	-4.	-4.	0.	0.	-0.	-.0009	-.0002	-.0002	.0000	.0000	.0000
23	220	-29.	-1.	-10.	0.	0.	-0.	-.0009	-.0000	-.0003	.0000	-.0000	.0000
24	240	-40.	-3.	-14.	-0.	-0.	0.	-.0010	-.0001	-.0003	-.0000	.0000	.0000
25	255	19.	2.	-65.	0.	-0.	0.	.0000	.0000	-.0003	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 9 FREQUENCY 15.93

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 9 FREQUENCY 15.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 10 FREQUENCY 18.09

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	88.	-678.	13.	20566.	6087.	1755.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-88.	678.	-13.	-20168.	-6037.	-1840.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
1	2	15	END	-88.	678.	-13.	9071.	-2302.	-4235.	-.0003	.0003	.0004	-.0000	-.0000	-.0000
2	1	15	BEG	66.	-656.	38.	-9071.	2302.	4235.	-.0003	.0003	.0004	-.0000	-.0000	-.0000
2	1	20	END	-66.	656.	-38.	8283.	-2302.	-2839.	-.0005	.0003	.0004	-.0000	-.0000	-.0000
3	1	20	BEG	-47.	-122.	-16.	-5757.	-1441.	-22774.	-.0005	.0003	.0004	-.0000	-.0000	-.0000
3	1	25	END	47.	122.	16.	6340.	1441.	21118.	-.0006	.0003	.0004	-.0000	-.0000	-.0000
3	2	30	END	47.	122.	16.	6923.	1441.	19463.	-.0007	.0003	.0004	.0000	-.0000	-.0000
4	1	30	BEG	-119.	-87.	29.	-6923.	-1441.	-19463.	-.0007	.0003	.0004	.0000	-.0000	-.0000
4	1	35	END	119.	87.	-29.	5891.	1441.	15236.	-.0006	.0003	.0004	.0000	-.0000	.0000
4	2	40	END	119.	87.	-29.	4859.	1441.	11009.	-.0005	.0003	.0003	.0000	-.0000	.0000
5	1	40	BEG	-170.	-51.	63.	-4859.	-1441.	-11009.	-.0005	.0003	.0003	.0000	-.0000	.0000
5	1	45	END	170.	51.	-63.	2634.	1441.	4975.	-.0003	.0003	.0002	.0000	-.0000	.0000
5	2	50	END	170.	51.	-63.	409.	1441.	-1059.	-.0000	.0003	.0001	.0000	-.0000	.0000
6	1	50	BEG	-175.	4.	78.	-409.	-1441.	1059.	-.0000	.0003	.0001	.0000	-.0000	.0000
6	1	55	END	175.	-4.	-78.	-4285.	1441.	-11549.	.0003	.0003	-.0001	.0000	-.0000	.0000
6	2	57	END	175.	-4.	-78.	-9369.	1441.	-22013.	.0006	.0003	-.0003	.0000	-.0000	.0000
7	1	57	BEG	140.	186.	-58.	9369.	-1441.	22913.	.0006	.0003	-.0003	.0000	-.0000	.0000
7	1	60	END	-140.	-186.	58.	-7080.	1441.	-17351.	.0006	.0003	-.0003	.0000	-.0000	-.0000
7	2	65	END	-140.	-186.	58.	-4790.	1441.	-11790.	.0005	.0003	-.0003	-.0000	-.0000	-.0000
7	3	70	END	-140.	-186.	58.	-2846.	1441.	-7067.	.0003	.0003	-.0002	-.0000	-.0000	-.0000
8	1	70	BEG	184.	232.	-90.	2846.	-1441.	7067.	.0003	.0003	-.0002	-.0000	-.0000	-.0000
8	1	75	END	-184.	-232.	90.	-2792.	1441.	-6956.	.0003	.0003	-.0002	-.0000	-.0000	-.0000
8	2	80	END	-184.	-232.	90.	2423.	4581.	11715.	-.0000	.0006	-.0000	-.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-184.	-232.	90.	2438.	4623.	11853.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	85	BEG	178.	245.	-98.	-2438.	-4623.	-11853.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	86	END	-178.	-245.	98.	3190.	6743.	18496.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	2	87	END	-178.	-245.	98.	-1919.	6743.	9262.	.0000	.0000	-.0000	-.0000	-.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	72.	-503.	89.	-2526.	3743.	25613.	-.0005	.0003	.0004	-.0000	-.0000	-.0000
18	1	160	END	-72.	503.	-89.	2526.	-980.	-10080.	-.0005	.0012	.0001	.0000	-.0000	-.0000
18	2	165	END	-72.	503.	-89.	2526.	1783.	5453.	-.0005	.0025	-.0003	.0000	-.0000	-.0000
18	3	167	END	-72.	503.	-89.	2526.	5399.	25781.	-.0005	.0040	-.0007	.0000	-.0000	-.0000
19	1	167	BEG	0.	113.	-24.	-2526.	-5399.	-25781.	-.0005	.0046	-.0007	.0000	-.0000	-.0000
19	1	170	END	-0.	-113.	24.	2526.	4446.	21246.	-.0005	.0040	-.0008	.0000	.0000	.0000
19	2	175	END	-0.	-113.	24.	2526.	3494.	16711.	-.0005	.0023	-.0006	.0000	.0000	.0001
20	1	175	BEG	-17.	201.	-46.	-2526.	-3494.	-16711.	-.0005	.0023	-.0006	.0000	.0000	.0001
20	1	180	END	17.	-201.	46.	2526.	1655.	8643.	-.0005	-.0008	-.0000	.0000	.0000	.0001
20	2	185	END	17.	-201.	46.	2526.	780.	4801.	-.0005	-.0026	-.0003	.0000	.0000	.0001
20	3	190	END	17.	-201.	46.	-1756.	-548.	603.	-.0002	-.0057	.0007	.0000	.0000	.0001
21	1	190	BEG	-24.	42.	-25.	1756.	548.	-603.	-.0002	-.0057	.0007	.0000	.0000	.0001
21	1	195	END	24.	-42.	25.	-1772.	-556.	603.	-.0002	-.0057	.0007	.0000	.0000	.0001
21	2	200	END	24.	-42.	25.	-1787.	-564.	604.	-.0002	-.0057	.0008	.0000	.0000	.0001
21	3	205	END	24.	-42.	25.	-2712.	-540.	1529.	-.0001	-.0041	.0005	.0000	.0000	.0001
22	1	205	BEG	-25.	-36.	-15.	2712.	540.	-1529.	-.0001	-.0041	.0005	.0000	.0000	.0001
22	1	210	END	25.	36.	15.	-2712.	-381.	1147.	-.0001	-.0028	.0004	.0000	.0000	.0001
22	2	215	END	25.	36.	15.	-2712.	-223.	764.	-.0001	-.0015	.0003	.0000	.0000	.0001
22	3	220	END	25.	36.	15.	-1947.	-441.	-0.	.0001	.0007	.0000	.0000	.0000	.0001
23	1	220	BEG	-20.	-6.	-13.	1947.	441.	-0.	.0001	.0007	.0000	.0000	.0000	.0001
23	1	225	END	20.	6.	13.	-1845.	-760.	0.	.0003	.0006	.0000	.0000	.0000	.0001
23	2	230	END	20.	6.	13.	-1612.	-1489.	0.	.0006	.0002	.0000	.0000	.0000	.0001

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	20.	6.	13.	-1379.	-2218.	0.	.0008	.0006	.0000	.0000	.0000	.0001
23	4	240	END	20.	6.	13.	-1145.	-2947.	0.	.0009	-.0001	.0000	.0000	-.0000	.0001
24	1	240	BEG	26.	-10.	-11.	1145.	2947.	0.	.0009	-.0001	.0000	.0000	-.0000	.0001
24	1	245	END	-26.	10.	11.	-763.	-1965.	0.	.0007	-.0001	.0000	-.0000	-.0000	.0001
24	2	250	END	-26.	10.	11.	-382.	-982.	0.	.0004	-.0001	.0000	-.0000	-.0000	.0001
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	0.0000	.0000	-.0000	-.0000	.0001
24	3	255	END	-26.	10.	11.	-0.	0.	0.	0.0000	0.0000	.0000	-.0000	-.0000	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 10 FREQUENCY 18.09

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 10 FREQUENCY 18.09

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	88.	-678.	13.	20566.	6087.	1755.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-21.	22.	24.	0.	0.	0.	-.0003	.0003	.0006	-.0000	-.0000	-.0000
3	20	-41.	30.	36.	0.	0.	0.	-.0005	.0003	.0006	-.0000	-.0000	-.0000
4	30	-72.	36.	45.	-0.	0.	0.	-.0007	.0003	.0008	.0000	-.0000	-.0000
5	40	-51.	36.	34.	-0.	-0.	-0.	-.0005	.0003	.0003	.0000	-.0000	.0000
6	50	-5.	55.	16.	-0.	0.	-0.	-.0000	.0003	.0001	.0000	-.0000	.0000
7	57	315.	183.	-136.	-0.	-0.	-0.	.0006	.0003	-.0003	.0000	-.0000	.0000
8	70	44.	46.	-33.	0.	0.	0.	.0003	.0003	-.0002	-.0000	-.0000	-.0000
9	85	-7.	13.	-8.	0.	0.	0.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	87	-178.	-245.	98.	-1919.	6743.	9262.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-72.	616.	-113.	0.	0.	0.	-.0005	.0040	-.0007	.0000	-.0000	-.0000
20	175	-18.	88.	-22.	0.	-0.	-0.	-.0005	.0023	-.0006	.0000	.0000	.0001
21	190	-7.	-159.	21.	-0.	-0.	-0.	-.0002	-.0057	.0007	.0000	.0000	.0001
22	205	-1.	-79.	10.	0.	-0.	-0.	-.0001	-.0041	.0005	.0000	.0000	.0001
23	220	6.	30.	2.	0.	-0.	-0.	.0001	.0007	.0000	.0000	.0000	.0001
24	240	46.	-4.	2.	-0.	-0.	0.	.0009	-.0001	.0000	.0000	-.0000	.0001
25	255	-26.	10.	11.	-0.	0.	0.	0.0000	0.0000	.0000	-.0000	-.0000	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 10 FREQUENCY 18.09

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 10 FREQUENCY 18.09

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
DYNAMIC PIPE STRESS ANALYSIS, MODE 11, FREQUENCY 21.27

DYNAMIC PIPE STRESS ANALYSIS, MODE 11, FREQUENCY 21.27

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 12, FREQUENCY 23.56

DYNAMIC PIPE STRESS ANALYSIS, MODE 12, FREQUENCY 23.56

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 13, FREQUENCY 27.61

NINE MILE NPS MODEL 1 XYZ SHOCK
DYNAMIC PIPE STRESS ANALYSIS, MODE 13, FREQUENCY 27.61

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

LOADS
SHOCK

MODE 14 FREQUENCY 28.68

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-22.	-75.	12.	1812.	-1034.	-697.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	22.	75.	-12.	-1768.	1020.	687.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	22.	75.	-12.	1016.	-56.	-1004.	.0000	.0000	.0000	.0000	.0000	-.0000
2	1	15	BEG	-17.	-70.	13.	-1016.	56.	1004.	.0000	.0000	-.0000	.0000	.0000	-.0000
2	1	20	END	17.	70.	-13.	734.	-56.	-1354.	.0000	.0000	.0000	.0000	.0000	-.0000
3	1	20	BEG	7.	-38.	17.	-600.	-27.	299.	.0000	.0000	.0000	.0000	.0000	-.0000

```
3 1 25 END   -7.   38.   -17.   -14.   27.   -60.   .0000   .0000   -.0000   .0000   .0000   -.0000
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3	1	25	END	-7.	38.	-17.	-14.	27.	-60.	.0000	.0000	-.0000	.0000	.0000	-.0000
3	2	30	END	-7.	38.	-17.	-628.	27.	179.	.0000	.0000	-.0000	.0000	.0000	-.0000
4	1	30	BEG	7.	-30.	10.	628.	-27.	-179.	.0000	.0000	-.0000	.0000	.0000	-.0000
4	1	35	END	-7.	30.	-10.	-968.	27.	434.	-.0000	.0000	-.0000	.0000	.0000	-.0000
4	2	40	END	-7.	30.	-10.	-1308.	27.	688.	-.0000	.0000	-.0000	.0000	.0000	-.0000
5	1	40	BEG	2.	-22.	-3.	1308.	-27.	-688.	-.0000	.0000	-.0000	.0000	.0000	-.0000
5	1	45	END	-2.	22.	3.	-1198.	27.	764.	-.0000	.0000	-.0000	-.0000	.0000	-.0000
5	2	50	END	-2.	22.	3.	-1088.	27.	840.	-.0000	.0000	-.0000	-.0000	.0000	.0000
6	1	50	BEG	-8.	-9.	-18.	1088.	-27.	-840.	-.0000	.0000	-.0000	-.0000	.0000	.0000
6	1	55	END	8.	9.	18.	10.	27.	381.	-.0000	.0000	-.0000	-.0000	.0000	.0000
6	2	57	END	8.	9.	18.	1200.	27.	-116.	.0000	.0000	.0000	-.0000	.0000	.0000
7	1	57	BEG	-6.	33.	7.	-1200.	-27.	116.	.0000	.0000	.0000	-.0000	.0000	.0000
7	1	60	END	6.	-33.	-7.	924.	27.	-358.	.0000	.0000	.0000	-.0000	.0000	.0000
7	2	65	END	6.	-33.	-7.	648.	27.	-600.	.0000	.0000	.0000	-.0000	.0000	.0000
7	3	70	END	6.	-33.	-7.	414.	27.	-805.	.0000	.0000	.0000	.0000	.0000	.0000
8	1	70	BEG	1.	43.	18.	-414.	-27.	805.	.0000	.0000	.0000	.0000	.0000	.0000
8	1	75	END	-1.	-43.	-18.	403.	27.	-805.	.0000	.0000	.0000	.0000	.0000	.0000
8	2	80	END	-1.	-43.	-18.	-211.	-799.	1157.	-.0000	.0000	.0000	-.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-1.	-43.	-16.	-209.	-810.	1183.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	85	BEG	-3.	49.	24.	209.	810.	-1183.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	86	END	3.	-49.	-24.	-58.	-1445.	2514.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	2	87	END	3.	-49.	-24.	1178.	-1445.	2673.	.0000	.0000	.0000	.0000	.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-17.	-26.	-3.	-135.	83.	1055.	.0000	.0000	.0000	.0000	.0000	-.0000
18	1	160	END	17.	26.	3.	135.	-161.	-254.	.0000	.0001	.0000	.0000	.0000	-.0000
18	2	165	END	17.	26.	3.	135.	-280.	548.	.0000	.0001	.0000	.0000	-.0000	-.0000
18	3	167	END	17.	26.	3.	135.	-408.	1597.	.0000	.0001	.0000	.0000	-.0000	-.0000
19	1	167	BEG	-6.	31.	4.	-135.	408.	-1597.	.0000	.0001	.0000	.0000	-.0000	-.0000
19	1	170	END	6.	-31.	-4.	135.	-254.	358.	.0000	.0001	-.0000	.0000	-.0000	.0000
19	2	175	END	6.	-31.	-4.	135.	-99.	-880.	.0000	.0000	-.0001	.0000	-.0000	.0000
20	1	175	BEG	-4.	34.	-2.	-135.	99.	880.	.0000	.0000	-.0001	.0000	-.0000	.0000
20	1	180	END	4.	-34.	2.	135.	-169.	-2226.	.0000	.0000	-.0001	.0000	-.0000	-.0000
20	2	185	END	4.	-34.	2.	135.	-203.	-2867.	.0000	.0001	-.0002	.0000	-.0000	-.0000
20	3	190	END	4.	-34.	2.	-571.	-318.	-3566.	-.0000	.0004	-.0002	-.0000	-.0000	-.0000
21	1	190	BEG	-4.	60.	-16.	571.	318.	3566.	-.0000	.0004	-.0002	-.0000	-.0000	-.0000
21	1	195	END	4.	-60.	16.	-592.	-319.	-3566.	-.0000	.0004	-.0002	-.0000	-.0000	-.0000
21	2	200	END	4.	-60.	16.	-614.	-321.	-3566.	-.0000	.0004	-.0002	-.0000	-.0000	-.0000
21	3	205	END	4.	-60.	16.	-1898.	-69.	-2296.	-.0000	-.0001	-.0001	-.0000	-.0000	-.0000
22	1	205	BEG	-6.	55.	-22.	1898.	69.	2296.	-.0000	-.0001	-.0001	-.0000	-.0000	-.0000
22	1	210	END	6.	-55.	22.	-1898.	163.	-1722.	-.0000	-.0005	-.0001	-.0000	-.0000	-.0000
22	2	215	END	6.	-55.	22.	-1898.	394.	-1148.	-.0000	-.0009	-.0000	-.0000	-.0000	-.0000
22	3	220	END	6.	-55.	22.	-3046.	731.	0.	-.0001	-.0013	.0000	-.0000	.0000	-.0000
23	1	220	BEG	-13.	-82.	-20.	3046.	-731.	0.	-.0001	-.0013	.0000	-.0000	.0000	-.0000
23	1	225	END	13.	82.	20.	-1708.	524.	-0.	-.0000	-.0010	.0000	-.0000	.0000	-.0000
23	2	230	END	13.	82.	20.	1349.	50.	-0.	.0000	-.0001	.0000	-.0000	.0000	-.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	13.	82.	20.	4407.	-424.	-0.	.0001	.0007	.0000	-.0000	.0000	-.0000
23	4	240	END	13.	82.	20.	7464.	-898.	-0.	.0002	.0011	.0000	-.0000	.0000	-.0000
24	1	240	BEG	8.	67.	-17.	-7464.	898.	0.	.0002	.0011	.0000	-.0000	.0000	-.0000
24	1	245	END	-8.	-67.	17.	4976.	-599.	0.	.0001	.0010	.0000	.0000	-.0000	-.0000
24	2	250	END	-8.	-67.	17.	2488.	-299.	0.	.0001	.0006	.0000	.0000	-.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	.0000	.0000	-.0000	-.0000
24	3	255	END	-8.	-67.	17.	-0.	0.	0.	-.0000	-.0000	.0000	.0000	-.0000	-.0000

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 14 FREQUENCY 28.68

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-22.	-75.	12.	1812.	-1034.	-697.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	5.	5.	2.	-0.	-0.	-0.	.0000	.0000	.0000	.0000	.0000	-.0000
3	20	6.	7.	1.	-0.	-0.	0.	.0000	.0000	.0000	.0000	.0000	-.0000
4	30	0.	8.	-8.	-0.	-0.	0.	.0000	.0000	-.0000	.0000	.0000	-.0000
5	40	-5.	8.	-13.	-0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	-.0000
6	50	-10.	12.	-15.	0.	-0.	-0.	-.0000	.0000	-.0000	-.0000	.0000	.0000
7	57	2.	42.	25.	0.	0.	-0.	.0000	.0000	.0000	-.0000	.0000	.0000
8	70	7.	10.	11.	0.	-0.	-0.	.0000	.0000	.0000	.0000	.0000	.0000
9	85	-4.	6.	5.	-0.	-0.	0.	-.0000	.0000	.0000	-.0000	.0000	-.0000
10	87	3.	-49.	-24.	1178.	-1445.	2673.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	11.	57.	7.	0.	0.	0.	.0000	.0001	.0000	.0000	-.0000	-.0000
20	175	3.	3.	-6.	-0.	0.	-0.	.0000	.0000	-.0001	.0000	-.0000	.0000
21	190	-0.	27.	-14.	0.	-0.	-0.	-.0000	.0004	-.0002	-.0000	-.0000	-.0000
22	205	-2.	-5.	-6.	-0.	0.	0.	-.0000	-.0001	-.0001	-.0000	-.0000	-.0000
23	220	-7.	-137.	2.	0.	0.	0.	-.0001	-.0013	.0000	-.0000	.0000	-.0000
24	240	21.	148.	3.	0.	-0.	-0.	.0002	.0011	.0000	-.0000	.0000	-.0000
25	255	-8.	-67.	17.	-0.	0.	0.	-.0000	-.0000	.0000	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

255 -8. 7. 7. -0. 0. 0. .000 .000 .00 .00 .00 .00

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 14 FREQUENCY 28.68

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

DYNAMIC PIPE STRESS ANALYSIS, MODE 15, FREQUENCY 31.57

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 16, FREQUENCY 32.32

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 17, FREQUENCY 38.57

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 18, FREQUENCY 41.84

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 19, FREQUENCY 47.39

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 20 FREQUENCY 48.93

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	12.	12.	-13.	-44.	341.	406.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-12.	-12.	13.	37.	-332.	-405.	-.0000	-.0000	.0000	.0000	-.0000	-.0000
1	2	15	END	-12.	-12.	13.	133.	318.	239.	-.0000	-.0000	.0000	-.0000	-.0000	-.0000
2	1	15	BEG	6.	12.	-11.	-133.	-318.	-239.	-.0000	-.0000	.0000	-.0000	-.0000	-.0000
2	1	20	END	-6.	-12.	11.	363.	318.	373.	-.0000	-.0000	.0000	-.0000	-.0000	.0000
3	1	20	BEG	-3.	12.	0.	-359.	-79.	-399.	-.0000	-.0000	.0000	-.0000	-.0000	.0000
3	1	25	END	3.	-12.	-0.	346.	79.	307.	-.0000	-.0000	.0000	.0000	-.0000	.0000
3	2	30	END	3.	-12.	-0.	333.	79.	215.	-.0000	-.0000	.0000	.0000	-.0000	.0000
4	1	30	BEG	-7.	11.	5.	-333.	-79.	-215.	-.0000	-.0000	.0000	.0000	-.0000	.0000
4	1	35	END	7.	-11.	-5.	138.	79.	-29.	-.0000	-.0000	.0000	.0000	-.0000	.0000
4	2	40	END	7.	-11.	-5.	-57.	79.	-273.	.0000	-.0000	-.0000	.0000	.0000	.0000
5	1	40	BEG	-3.	11.	5.	57.	-79.	273.	.0000	-.0000	-.0000	.0000	.0000	.0000
5	1	45	END	3.	-11.	-5.	-235.	79.	-391.	.0000	-.0000	-.0000	.0000	.0000	.0000
5	2	50	END	3.	-11.	-5.	-413.	79.	-509.	.0000	-.0000	-.0000	.0000	.0000	-.0000
6	1	50	BEG	7.	9.	-3.	413.	-79.	509.	.0000	-.0000	-.0000	.0000	.0000	-.0000
6	1	55	END	-7.	-9.	3.	-248.	79.	-87.	.0000	-.0000	-.0000	-.0000	.0000	-.0000
6	2	57	END	-7.	-9.	3.	-69.	79.	370.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
7	1	57	BEG	-2.	3.	-2.	69.	-79.	-370.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
7	1	60	END	2.	-3.	2.	27.	79.	275.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
7	2	65	END	2.	-3.	2.	124.	79.	180.	-.0000	-.0000	.0000	-.0000	.0000	.0000
7	3	70	END	2.	-3.	2.	206.	79.	99.	-.0000	-.0000	.0000	-.0000	.0000	.0000
8	1	70	BEG	-5.	1.	7.	-206.	-79.	-99.	-.0000	-.0000	.0000	-.0000	.0000	.0000
8	1	75	END	5.	-1.	-7.	201.	79.	96.	-.0000	-.0000	.0000	-.0000	.0000	.0000
8	2	80	END	5.	-1.	-7.	-110.	-213.	-63.	-.0000	.0000	.0000	-.0000	.0000	-.0000

8	2	80	END	5.	-1.	-7.	-110.	-213.	-63.	-.0000	.0000	.0000	-.0000	.0000	-.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	5.	-1.	-7.	-110.	-217.	-62.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	85	BEG	-6.	2.	14.	110.	217.	62.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	86	END	6.	-2.	-14.	-103.	-579.	-1.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	2	87	END	6.	-2.	-14.	624.	-579.	293.	0.0000	.0000	.0000	.0000	.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	2.	-1.	-7.	-4.	-239.	26.	-.0000	-.0000	.0000	-.0000	-.0000	.0000
18	1	160	END	-2.	1.	7.	4.	31.	-11.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
18	2	165	END	-2.	1.	7.	4.	-176.	5.	-.0000	.0000	.0000	-.0000	.0000	-.0000
18	3	167	END	-2.	1.	7.	4.	-447.	25.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
19	1	167	BEG	-11.	0.	9.	-4.	447.	-25.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
19	1	170	END	11.	-0.	-9.	4.	-70.	7.	-.0000	.0000	-.0000	-.0000	-.0000	.0000
19	2	175	END	11.	-0.	-9.	4.	308.	-10.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
20	1	175	BEG	-14.	0.	-1.	-4.	-308.	10.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
20	1	180	END	14.	-0.	1.	4.	254.	-13.	-.0000	-.0000	-.0000	.0000	.0000	.0000
20	2	185	END	14.	-0.	1.	4.	228.	-14.	-.0000	-.0000	-.0000	.0000	.0000	-.0000
20	3	190	END	14.	-0.	1.	1.	-99.	5.	.0000	-.0000	-.0000	.0000	.0000	-.0000
21	1	190	BEG	-11.	-0.	-6.	-1.	99.	-5.	.0000	-.0000	-.0000	.0000	.0000	-.0000
21	1	195	END	11.	0.	6.	1.	-103.	5.	.0000	-.0000	-.0000	.0000	.0000	-.0000
21	2	200	END	11.	0.	6.	1.	-106.	6.	.0000	-.0000	-.0000	.0000	.0000	-.0000
21	3	205	END	11.	0.	6.	-4.	-219.	18.	.0000	-.0000	-.0000	.0000	-.0000	.0000
22	1	205	BEG	-7.	-0.	-9.	4.	219.	-18.	.0000	-.0000	-.0000	.0000	-.0000	.0000
22	1	210	END	7.	0.	9.	-4.	-123.	14.	.0000	-.0000	-.0000	.0000	-.0000	.0000
22	2	215	END	7.	0.	9.	-4.	-27.	9.	.0000	-.0000	-.0000	.0000	-.0000	.0000
22	3	220	END	7.	0.	9.	5.	27.	0.	.0000	.0000	.0000	.0000	-.0000	.0000
23	1	220	BEG	0.	0.	-9.	-5.	-27.	-0.	.0000	.0000	.0000	.0000	-.0000	.0000
23	1	225	END	-0.	-0.	9.	4.	29.	0.	.0000	.0000	.0000	.0000	-.0000	.0000
23	2	230	END	-0.	-0.	9.	1.	32.	0.	.0000	.0000	.0000	.0000	-.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-0.	-0.	9.	-3.	35.	0.	.0000	.0000	.0000	.0000	-.0000	.0000
23	4	240	END	-0.	-0.	9.	-6.	38.	0.	-.0000	-.0000	.0000	.0000	-.0000	.0000
24	1	240	BEG	-0.	-0.	-7.	6.	-38.	0.	-.0000	-.0000	.0000	.0000	-.0000	.0000
24	1	245	END	0.	0.	7.	-4.	25.	0.	-.0000	-.0000	.0000	-.0000	-.0000	.0000
24	2	250	END	0.	0.	7.	-2.	13.	0.	-.0000	-.0000	.0000	-.0000	.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	.0000	.0000	-.0000	.0000	.0000
24	3	255	END	0.	0.	7.	0.	0.	0.	.0000	.0000	.0000	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 20 FREQUENCY 48.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	12.	12.	-13.	-44.	341.	406.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-6.	-0.	3.	0.	0.	0.	-.0000	-.0000	.0000	-.0000	-.0000	-.0000
3	20	-7.	-0.	5.	0.	0.	-0.	-.0000	-.0000	.0000	-.0000	-.0000	.0000
4	30	-4.	-0.	5.	-0.	0.	-0.	-.0000	-.0000	.0000	.0000	-.0000	.0000
5	40	4.	-1.	-0.	-0.	-0.	-0.	.0000	-.0000	-.0000	.0000	.0000	.0000
6	50	10.	-1.	-8.	-0.	-0.	0.	.0000	-.0000	-.0000	.0000	.0000	-.0000
7	57	-9.	-6.	0.	0.	0.	0.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
8	70	-3.	-2.	10.	0.	-0.	-0.	-.0000	-.0000	.0000	-.0000	.0000	.0000
9	85	-1.	1.	7.	-0.	-0.	0.	-.0000	.0000	.0000	-.0000	.0000	-.0000
10	87	6.	-2.	-14.	624.	-579.	293.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-13.	1.	16.	-0.	0.	0.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
20	175	-3.	-0.	-11.	0.	0.	-0.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
21	190	3.	-6.	-4.	-0.	-0.	0.	.0000	-.0000	-.0000	.0000	.0000	-.0000
22	205	4.	-0.	-3.	0.	-0.	-0.	.0000	-.0000	-.0000	.0000	-.0000	.0000
23	220	7.	1.	1.	0.	0.	-0.	.0000	.0000	.0000	.0000	-.0000	.0000
24	240	-0.	-0.	1.	-0.	0.	0.	-.0000	-.0000	.0000	.0000	-.0000	.0000
25	255	0.	0.	7.	0.	0.	0.	.0000	.0000	.0000	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

[redacted] 255 [redacted] 0. [redacted] 0. [redacted] 7. [redacted] 0. [redacted] 0. [redacted] 0. [redacted] .0000 [redacted] .0000 [redacted] .0000 [redacted] .0000 [redacted] .0000 [redacted] .0000 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODE 20 FREQUENCY 48.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1 1 5 BEG SQ,RT,SUM OF SQ	7108.	1674.	6840.	345208.	569454.	447183.	0.000	0.000	0.000	0.0000	0.0000	0.0000
1 1 10 END SQ,RT,SUM OF SQ	7108.	1674.	6840.	345239.	568443.	447088.	.000	.000	.000	.0006	.0000	.0000
1 2 10 BEG SQ,RT,SUM OF SQ	7108.	1674.	6840.	345239.	568443.	447088.	.000	.000	.000	.0006	.0000	.0000
1 2 15 END SQ,RT,SUM OF SQ	7108.	1674.	6840.	62126.	554786.	184657.	.026	.012	.016	.0005	.0006	.0004
2 1 15 BEG SQ,RT,SUM OF SQ	6669.	1647.	6681.	62126.	554786.	184657.	.026	.012	.016	.0005	.0006	.0004
2 1 20 END SQ,RT,SUM OF SQ	6669.	1647.	6681.	105261.	554786.	170128.	.034	.012	.027	.0005	.0007	.0004
3 1 20 BEG SQ,RT,SUM OF SQ	4997.	1731.	4840.	97274.	181155.	195216.	.034	.012	.027	.0005	.0007	.0004
3 1 25 END SQ,RT,SUM OF SQ	4997.	1731.	4840.	235874.	181155.	207549.	.048	.012	.045	.0005	.0007	.0004
3 2 25 BEG SQ,RT,SUM OF SQ	4997.	1731.	4840.	235874.	181155.	207549.	.048	.012	.045	.0005	.0007	.0004
3 2 30 END SQ,RT,SUM OF SQ	4997.	1731.	4840.	401405.	181155.	333549.	.062	.012	.061	.0004	.0006	.0004
4 1 30 BEG SQ,RT,SUM OF SQ	3938.	1815.	3709.	401405.	181155.	333549.	.062	.012	.061	.0004	.0006	.0004
4 1 35 END SQ,RT,SUM OF SQ	3938.	1815.	3709.	530963.	181155.	456104.	.073	.012	.075	.0004	.0006	.0003
4 2 35 BEG SQ,RT,SUM OF SQ	3938.	1815.	3709.	530963.	181155.	456104.	.073	.012	.075	.0004	.0006	.0003
4 2 40 END SQ,RT,SUM OF SQ	3938.	1815.	3709.	661477.	181155.	586573.	.083	.012	.087	.0003	.0006	.0002
5 1 40 BEG SQ,RT,SUM OF SQ	2480.	1923.	2109.	661477.	181155.	586573.	.083	.012	.087	.0003	.0006	.0002
5 1 45 END SQ,RT,SUM OF SQ	2480.	1923.	2109.	735664.	181155.	668655.	.089	.012	.094	.0001	.0006	.0001
5 2 45 BEG SQ,RT,SUM OF SQ	2480.	1923.	2109.	735664.	181155.	668655.	.089	.012	.094	.0001	.0006	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

5 2 45 BEG SQ,RT,SUM OF SQ	2480.	1923.	2109.	735664.	181155.	468655.	.089	.012	.094	.0001	.0006	.0001

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ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
5 2 50 END SQ,RT,SUM OF SQ	2480.	1923.	2109.	810009.	181155.	752129.	.091	.012	.097	.0000	.0005	.0000
		3761										
6 1 50 BEG SQ,RT,SUM OF SQ	486.	2122.	630.	810009.	181155.	752129.	.091	.012	.097	.0000	.0005	.0000
		2266			1.710101E6							
6 1 55 END SQ,RT,SUM OF SQ	486.	2122.	630.	772809.	181155.	745574.	.085	.012	.092	.0002	.0005	.0002
6 2 55 BEG SQ,RT,SUM OF SQ	486.	2122.	630.	772809.	181155.	745574.	.085	.012	.092	.0002	.0005	.0002
6 2 57 END SQ,RT,SUM OF SQ	486.	2122.	630.	732582.	181155.	739708.	.069	.012	.076	.0003	.0005	.0003
7 1 57 BEG SQ,RT,SUM OF SQ	6496.	2987.	7712.	732582.	181155.	739708.	.069	.012	.076	.0003	.0005	.0003
7 1 60 END SQ,RT,SUM OF SQ	6496.	2987.	7712.	427724.	181155.	482526.	.055	.012	.061	.0004	.0005	.0004
7 2 60 BEG SQ,RT,SUM OF SQ	6496.	2987.	7712.	427724.	181155.	482526.	.055	.012	.061	.0004	.0005	.0004
7 2 65 END SQ,RT,SUM OF SQ	6496.	2987.	7712.	126426.	181155.	225807.	.037	.012	.044	.0004	.0005	.0005
7 3 65 BEG SQ,RT,SUM OF SQ	6496.	2987.	7712.	126426.	181155.	225807.	.037	.012	.044	.0004	.0005	.0005
7 3 70 END SQ,RT,SUM OF SQ	6496.	2987.	7712.	144350.	181155.	24465.	.020	.012	.028	.0004	.0005	.0005
8 1 70 BEG SQ,RT,SUM OF SQ	6972.	3235.	8372.	144350.	181155.	24465.	.020	.012	.028	.0004	.0005	.0005
8 1 75 END SQ,RT,SUM OF SQ	6972.	3235.	8372.	149196.	181155.	23766.	.020	.012	.028	.0004	.0005	.0005
8 2 75 BEG SQ,RT,SUM OF SQ	6972.	3235.	8372.	149196.	181155.	23766.	.020	.012	.028	.0004	.0005	.0005
8 2 80 END SQ,RT,SUM OF SQ	6972.	3235.	8372.	508703.	386865.	438081.	.000	.001	.001	.0000	.0001	.0000
8 3 80 BEG SQ,RT,SUM OF SQ	6972.	3235.	8372.	508703.	386865.	438081.	.000	.001	.001	.0000	.0001	.0000
8 3 85 END SQ,RT,SUM OF SQ	6972.	3235.	8372.	506523.	391745.	439827.	.000	.001	.001	.0006	.0001	.0000

ADLPIPE PAGE 105

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

8 3 85 END SQ,RT,SUM OF SQ	6972.	3235.	9372.	508523.	391745.	439827.	.000	.001	.001	.0006	.0001	.0000

NINE MILE NPS MODEL 1 XYZ SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
9 1 85 BEG SQ,RT,SUM OF SQ	6966.	3281.	8471.	508523.	391745.	439827.	.000	.001	.001	.0006	.0001	.0000
9 1 86 END SQ,RT,SUM OF SQ	6966.	3281.	8471.	499963.	627262.	522182.	.000	.000	.000	.0006	.0000	.0000
9 2 86 BEG SQ,RT,SUM OF SQ	6966.	3281.	8471.	499963.	627262.	522182.	.000	.000	.000	.0000	.0000	.0000
9 2 87 END SQ,RT,SUM OF SQ	6966.	3281.	8471.	74536.	627262.	184776.	.000	.000	.000	.0000	.0000	.0000
10 1 87 BEG SQ,RT,SUM OF SQ	3326.	1171.	4591.	204482.	389447.	85290.	0.000	0.000	0.000	0.0000	0.0000	0.0000
10 1 88 END SQ,RT,SUM OF SQ	3326.	1171.	4591.	210270.	267417.	119304.	.000	.000	.000	.0006	.0000	.0000
10 2 88 BEG SQ,RT,SUM OF SQ	3326.	1171.	4591.	210270.	267417.	119304.	.000	.000	.000	.0000	.0000	.0000
10 2 90 END SQ,RT,SUM OF SQ	3326.	1171.	4591.	181396.	149135.	125087.	.000	.000	.000	.0000	.0000	.0000
11 1 90 BEG SQ,RT,SUM OF SQ	3241.	1124.	4528.	181396.	149135.	125087.	.000	.000	.000	.0000	.0000	.0000
11 1 95 END SQ,RT,SUM OF SQ	3241.	1124.	4528.	180864.	146814.	125198.	.000	.000	.000	.0006	.0000	.0000
11 2 95 BEG SQ,RT,SUM OF SQ	3241.	1124.	4528.	180864.	146814.	125198.	.000	.000	.000	.0006	.0000	.0000
11 2 100 END SQ,RT,SUM OF SQ	3241.	1124.	4528.	61641.	32359.	12298.	.008	.005	.008	.0002	.0001	.0001
12 1 100 BEG SQ,RT,SUM OF SQ	2383.	788.	3598.	61641.	32359.	12298.	.008	.005	.008	.0002	.0001	.0001
12 1 105 END SQ,RT,SUM OF SQ	2383.	788.	3598.	115142.	32359.	47909.	.009	.005	.011	.0002	.0001	.0001
12 2 105 BEG SQ,RT,SUM OF SQ	2383.	788.	3598.	115142.	32359.	47909.	.009	.005	.011	.0002	.0001	.0001
12 2 107 END SQ,RT,SUM OF SQ	2383.	788.	3598.	312697.	32359.	178910.	.013	.005	.019	.0001	.0001	.0001
13 1 107 BEG SQ,RT,SUM OF SQ	428.	857.	710.	312697.	32359.	178910.	.013	.005	.019	.0001	.0001	.0001

13 1 107 BEG
SQ.RT.SUM OF SQ 428. 857. 710. 362697. 32359. 178910. .013 .005 .019 .0001 .0001 .0001

NINE MILE NPS MODEL 1 XYZ SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
13 1 110 END SQ.RT.SUM OF SQ	428.	857.	710.	337737.	32359.	194096.	.015	.005	.023	.0001	.0001	.0000
13 2 110 BEG SQ.RT.SUM OF SQ	428.	857.	710.	337737.	32359.	194096.	.015	.005	.023	.0001	.0001	.0000
13 2 115 END SQ.RT.SUM OF SQ	428.	857.	710.	362795.	32359.	209283.	.015	.005	.025	.0000	.0001	.0000
14 1 115 BEG SQ.RT.SUM OF SQ	528.	1050.	849.	362795.	32359.	209283.	.015	.005	.025	.0000	.0001	.0000
14 1 120 END SQ.RT.SUM OF SQ	528.	1050.	849.	332709.	32359.	190671.	.015	.005	.025	.0000	.0001	.0000
14 2 120 BEG SQ.RT.SUM OF SQ	528.	1050.	849.	332709.	32359.	190671.	.015	.005	.025	.0000	.0001	.0000
14 2 125 END SQ.RT.SUM OF SQ	528.	1050.	849.	302629.	32359.	172079.	.013	.005	.023	.0001	.0001	.0001
15 1 125 BEG SQ.RT.SUM OF SQ	1484.	1331.	2528.	302629.	32359.	172079.	.013	.005	.023	.0001	.0001	.0001
15 1 130 END SQ.RT.SUM OF SQ	1484.	1331.	2528.	181303.	32359.	101293.	.009	.005	.018	.0001	.0001	.0001
15 2 130 BEG SQ.RT.SUM OF SQ	1484.	1331.	2528.	181303.	32359.	101293.	.009	.005	.018	.0001	.0001	.0001
15 2 135 END SQ.RT.SUM OF SQ	1484.	1331.	2528.	59980.	32359.	32475.	.004	.005	.010	.0002	.0001	.0001
16 1 135 BEG SQ.RT.SUM OF SQ	1804.	1643.	3294.	59980.	32359.	32475.	.004	.005	.010	.0002	.0001	.0001
16 1 140 END SQ.RT.SUM OF SQ	1804.	1643.	3294.	17673.	32359.	15771.	.003	.005	.008	.0002	.0001	.0001
16 2 140 BEG SQ.RT.SUM OF SQ	1804.	1643.	3294.	17673.	32359.	15771.	.003	.005	.008	.0002	.0001	.0001
16 2 145 END SQ.RT.SUM OF SQ	1804.	1643.	5294.	157079.	84391.	103605.	.000	.001	.001	.0000	.0000	.0000
16 3 145 BEG SQ.RT.SUM OF SQ	1804.	1643.	3294.	157079.	84391.	103605.	.000	.001	.001	.0000	.0000	.0000
16 3 150 END SQ.RT.SUM OF SQ	1804.	1643.	3294.	158175.	85472.	104531.	.000	.001	.001	.0000	.0000	.0000

NINE MILE NPS MODEL 1 XYZ SHOCK

16 3 150 END
SQ,RT,SUM OF SQ 1800. 1643. 3294. 158175. 85472. 104531. .000 .001 .001 .0000 .0000 .0000

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
17 1 150 BEG SQ,RT,SUM OF SQ	1801.	1679.	3322.	158175.	85472.	104531.	.000	.001	.001	.0000	.0000	.0000
17 1 155 END SQ,RT,SUM OF SQ	1801.	1679.	3322.	219714.	147256.	158764.	.000	.000	.000	.0000	.0000	.0000
18 1 20 BEG SQ,RT,SUM OF SQ	1440.	1147.	3914.	9815.	726790.	208255.	.034	.012	.027	.0005	.0007	.0004
18 1 160 END SQ,RT,SUM OF SQ	1440.	1147.	3914.	9815.	607548.	175384.	.034	.007	.052	.0005	.0017	.0004
18 2 160 BEG SQ,RT,SUM OF SQ	1440.	1147.	3914.	9815.	607548.	175384.	.034	.007	.052	.0005	.0017	.0004
18 2 165 END SQ,RT,SUM OF SQ	1440.	1147.	3914.	9815.	489146.	143748.	.034	.020	.114	.0005	.0026	.0005
18 3 165 BEG SQ,RT,SUM OF SQ	1440.	1147.	3914.	9815.	489146.	143748.	.034	.020	.114	.0005	.0026	.0005
16 3 167 END SQ,RT,SUM OF SQ	1440.	1147.	3914.	9815.	336939.	106061.	.034	.043	.222	.0005	.0029	.0006
19 1 167 BEG SQ,RT,SUM OF SQ	671.	843.	3604.	9815.	336939.	106061.	.034	.043	.222	.0005	.0029	.0006
19 1 170 END SQ,RT,SUM OF SQ	671.	843.	3604.	9815.	192846.	72599.	.034	.070	.350	.0004	.0034	.0007
19 2 170 BEG SQ,RT,SUM OF SQ	671.	843.	3604.	9815.	192846.	72599.	.034	.070	.350	.0004	.0034	.0007
19 2 175 END SQ,RT,SUM OF SQ	671.	843.	3604.	9815.	51254.	39712.	.034	.101	.493	.0004	.0037	.0008
20 1 175 BEG SQ,RT,SUM OF SQ	495.	711.	3433.	9815.	51254.	39712.	.034	.101	.493	.0004	.0037	.0008
20 1 180 END SQ,RT,SUM OF SQ	495.	711.	3433.	9815.	91130.	12700.	.034	.136	.640	.0004	.0036	.0009
20 2 180 BEG SQ,RT,SUM OF SQ	495.	711.	3433.	9815.	91130.	12700.	.034	.136	.640	.0004	.0036	.0009
20 2 185 END SQ,RT,SUM OF SQ	495.	711.	3433.	9815.	156018.	7659.	.034	.152	.709	.0004	.0035	.0009
20 3 185 BEG SQ,RT,SUM OF SQ	495.	711.	3433.	9815.	156018.	7659.	.034	.152	.709	.0004	.0035	.0009

20 3 185 BEG SQ.RT.SUM OF SQ	495.	711.	3433.	9815.	66018.	7650.	.034	.152	.709	.0004	.0035	.0009

NINE MILE NPS MODEL 1 XYZ SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
20 3 190 END SQ.RT.SUM OF SQ	495.	711.	3433.	22807.	225246.	19730.	.077	.170	.772	.0003	.0019	.0008
21 1 190 BEG SQ.RT.SUM OF SQ	371.	433.	3198.	22807.	225246.	19730.	.077	.170	.772	.0003	.0019	.0008
21 1 195 END SQ.RT.SUM OF SQ	371.	433.	3198.	22971.	225207.	19735.	.077	.170	.772	.0003	.0019	.0008
21 2 195 BEG SQ.RT.SUM OF SQ	371.	433.	3198.	22971.	225207.	19735.	.077	.170	.772	.0003	.0019	.0008
21 2 200 END SQ.RT.SUM OF SQ	371.	433.	3198.	23138.	225167.	19740.	.076	.170	.772	.0003	.0019	.0008
21 3 200 BEG SQ.RT.SUM OF SQ	371.	433.	3198.	23138.	225167.	19740.	.078	.170	.772	.0003	.0019	.0008
21 3 205 END SQ.RT.SUM OF SQ	371.	433.	3198.	33398.	156966.	11135.	.104	.151	.754	.0003	.0004	.0008
22 1 205 BEG SQ.RT.SUM OF SQ	274.	265.	3035.	33398.	156966.	11135.	.104	.151	.754	.0003	.0004	.0008
22 1 210 END SQ.RT.SUM OF SQ	274.	265.	3035.	33398.	126190.	8352.	.104	.142	.751	.0003	.0004	.0008
22 2 210 BEG SQ.RT.SUM OF SQ	274.	265.	3035.	33398.	126190.	8352.	.104	.142	.751	.0003	.0004	.0008
22 2 215 END SQ.RT.SUM OF SQ	274.	265.	3035.	33398.	96129.	5568.	.104	.134	.749	.0003	.0003	.0008
22 3 215 BEG SQ.RT.SUM OF SQ	274.	265.	3035.	33398.	96129.	5568.	.104	.134	.749	.0003	.0003	.0008
22 3 220 END SQ.RT.SUM OF SQ	274.	265.	3035.	38675.	46500.	0.	.102	.112	.750	.0003	.0003	.0009
23 1 220 BEG SQ.RT.SUM OF SQ	134.	94.	2677.	38675.	46500.	0.	.102	.112	.750	.0003	.0003	.0009
23 1 225 END SQ.RT.SUM OF SQ	134.	94.	2677.	37942.	45028.	0.	.098	.107	.750	.0003	.0003	.0009
23 2 225 BEG SQ.RT.SUM OF SQ	134.	94.	2677.	37942.	45028.	0.	.098	.107	.750	.0003	.0003	.0009
23 2 230 END SQ.RT.SUM OF SQ	134.	94.	2677.	36457.	41902.	0.	.087	.094	.750	.0004	.0003	.0009

3540

3248

227255.

3058.8

160865.6

23 2 230 END
SQ.RT.SUM OF SQ 134. 94. 2677. 36457. 41902. 0. .087 .094 .750 .0004 .0003 .0009

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23 3 230 BEG SQ.RT.SUM OF SQ	134.	94.	2677.	36457.	41902.	0.	.087	.094	.750	.0004	.0003	.0009
23 3 235 END SQ.RT.SUM OF SQ	134.	94.	2677.	35263.	39169.	0.	.073	.079	.750	.0004	.0004	.0009
23 4 235 BEG SQ.RT.SUM OF SQ	134.	94.	2677.	35263.	39169.	0.	.073	.079	.750	.0004	.0004	.0009
23 4 240 END SQ.RT.SUM OF SQ	134.	94.	2677.	34389.	36914.	0.	.058	.061	.750	.0005	.0005	.0009
24 1 240 BEG SQ.RT.SUM OF SQ	329.	307.	2203.	34389.	36914.	0.	.058	.061	.750	.0005	.0005	.0009
24 1 245 END SQ.RT.SUM OF SQ	329.	307.	2203.	22926.	24609.	0.	.040	.042	.750	.0005	.0005	.0009
24 2 245 BEG SQ.RT.SUM OF SQ	329.	307.	2203.	22926.	24609.	0.	.040	.042	.750	.0005	.0005	.0009
24 2 250 END SQ.RT.SUM OF SQ	329.	307.	2203.	11463.	12305.	0.	.020	.021	.750	.0006	.0005	.0009
24 3 250 BEG SQ.RT.SUM OF SQ	329.	307.	2203.	11463.	12305.	0.	.020	.021	.750	.0006	.0005	.0009
24 3 255 DIS SQ.RT.SUM OF SQ	0.	0.	0.	0.	0.	0.	.000	.000	.750	.0006	.0005	.0009
24 3 255 END SQ.RT.SUM OF SQ	329.	307.	2203.	0.	0.	0.	.000	.000	.750	.0006	.0005	.0009

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
RMS MODAL SUMMARY
NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5 1	7108.	1678.	6840.	345208.	569454.	447183.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			10006			802130.							
2	15 3	242.	149.	194.	0.	0.	0.	.0261	.0125	.0160	.0005	.0006	.0004
3	20 4	462.	198.	429.	0.	0.	0.	.0342	.0125	.0267	.0005	.0007	.0004
4	30 6	1069.	230.	1133.	0.	0.	0.	.0616	.0124	.0611	.0004	.0006	.0004
5	40 8	1474.	229.	1603.	0.	0.	0.	.0828	.0124	.0865	.0003	.0006	.0002
6	50 10	2498.	347.	2720.	0.	0.	0.	.0912	.0124	.0970	.0000	.0005	.0000
7	57 12	6423.	1156.	7098.	0.	0.	0.	.0692	.0123	.0758	.0003	.0005	.0003
8	70 15	479.	293.	661.	0.	0.	0.	.0201	.0122	.0282	.0004	.0005	.0005
9	85 18	13.	52.	99.	0.	0.	0.	.0001	.0006	.0012	.0000	.0001	.0000
10	87 19	7719.	3484.	9635.	217643.	738327.	203510.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			12823.										
11	90 22	66.	54.	63.	0.	0.	0.	.0004	.0002	.0003	.0000	.0000	.0000
12	100 24	859.	559.	932.	0.	0.	0.	.0076	.0050	.0083	.0002	.0001	.0001
13	107 26	1955.	748.	2891.	0.	0.	0.	.0128	.0050	.0193	.0001	.0001	.0001
14	115 28	954.	307.	1556.	0.	0.	0.	.0152	.0050	.0253	.0000	.0001	.0000
15	125 30	957.	359.	1680.	0.	0.	0.	.0129	.0050	.0232	.0001	.0001	.0001
16	135 32	320.	361.	767.	0.	0.	0.	.0043	.0049	.0104	.0002	.0001	.0001
17	150 36	7.	38.	28.	0.	0.	0.	.0001	.0008	.0006	.0000	.0000	.0000
18	155 36	1801.	1679.	3322.	219714.	147256.	158764.	.0000	.0000	.0000	.0000	.0000	.0000
			4155										
19	167 39	744.	682.	1097.	0.	0.	0.	.0343	.0430	.2225	.0005	.0029	.0006
20	175 41	195.	192.	265.	0.	0.	0.	.0343	.1014	.4929	.0004	.0037	.0008
21	190 44	136.	305.	258.	0.	0.	0.	.0766	.1700	.7716	.0003	.0019	.0008
22	205 47	110.	190.	171.	0.	0.	0.	.1040	.1508	.7539	.0003	.0004	.0008
23	220 50	259.	325.	359.	0.	0.	0.	.1020	.1121	.7496	.0003	.0003	.0009
24	240 54	302.	302.	474.	0.	0.	0.	.0576	.0612	.7500	.0005	.0005	.0009
25	255 57	320.	307.	2203.	0.	0.	0.	.0000	.0000	.7503	.0006	.0005	.0009
			2248										

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE-MILE NPS MODEL 1 XYZ SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK
RMS MODAL SUMMARY
NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE,
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEG	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
1	1	5	BEG	RU	440.9	1073.5	1389.3	0.0	1.000	1.000
		10	END	RU	440.9	1071.9	1388.0	0.0	1.000	1.000
1	2	10	BEG	EL	440.9	2366.9	2525.6	0.0	2.208	2.208
		15	END	EL	-480.4	745.1	1215.9	0.0	2.208	2.208
2	1	15	BEG	RU	-480.4	337.4	1018.4	0.0	1.000	1.000
		20	END	RU	-480.4	346.5	1021.4	0.0	1.000	1.000
3	1	20	BEG	RU	-156.9	377.8	491.1	0.0	1.000	1.000
		25	END	RU	-156.9	544.2	628.1	0.0	1.000	1.000
3	2	25	BEG	RU	-156.9	544.2	628.1	0.0	1.000	1.000
		30	END	RU	-156.9	903.9	956.8	0.0	1.000	1.000
4	1	30	BEG	RU	-156.9	903.9	956.8	0.0	1.000	1.000
		35	END	RU	-156.9	1212.3	1252.3	0.0	1.000	1.000
4	2	35	BEG	RU	-156.9	1212.3	1252.3	0.0	1.000	1.000
		40	END	RU	-156.9	1531.2	1563.0	0.0	1.000	1.000
5	1	40	BEG	RU	-156.9	1531.2	1563.0	0.0	1.000	1.000
		45	END	RU	-156.9	1721.8	1750.2	0.0	1.000	1.000
5	2	45	BEG	RU	-156.9	1721.8	1750.2	0.0	1.000	1.000
		50	END	RU	-156.9	1914.5	1940.0	0.0	1.000	1.000
6	1	50	BEG	RU	-156.9	1914.5	1940.0	0.0	1.000	1.000
		55	END	RU	-156.9	1859.9	1886.1	0.0	1.000	1.000
6	2	55	BEG	RU	-76.9	911.5	924.3	0.0	1.000	1.000
		57	END	RU	-76.9	883.7	896.9	0.0	1.000	1.000
7	1	57	BEG	RU	-156.9	1803.1	1830.2	0.0	1.000	1.000
		60	END	RU	-156.9	1116.8	1160.0	0.0	1.000	1.000
7	2	60	BEG	RU	-156.9	1116.8	1160.0	0.0	1.000	1.000
		65	END	RU	-156.9	448.2	547.1	0.0	1.000	1.000
7	3	65	BEG	RU	-156.9	448.2	547.1	0.0	1.000	1.000
		70	END	RU	-156.9	253.6	403.4	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
8	1	70	BEG	RU	-156.9	253.6	403.4	0.0	1.000	1.000
		75	END	RU	-156.9	261.7	402.5	0.0	1.000	1.000
8	2	75	BEG	EL	-156.9	577.8	657.5	0.0	2.208	2.208
		80	END	EL	396.4	2391.0	2519.0	0.0	2.208	2.208
8	3	80	BEG	RU	396.4	1082.8	1342.0	0.0	1.000	1.000
		85	END	RU	396.0	1090.4	1347.7	0.0	1.000	1.000
9	1	85	BEG	RU	87.1	240.9	297.2	0.0	1.000	1.000
		86	END	RU	83.7	325.1	365.6	0.0	1.000	1.000
9	2	86	BEG	RU	83.7	325.1	365.6	0.0	1.000	1.000
		87	END	RU	119.8	76.1	251.4	0.0	1.000	1.000
10	1	87	BEG	RU	41.3	149.9	171.1	0.0	1.000	1.000
		88	END	RU	43.6	106.6	137.7	0.0	1.000	1.000
10	2	88	BEG	RU	43.6	106.6	137.7	0.0	1.000	1.000
		90	END	RU	-17.4	95.5	101.6	0.0	1.000	1.000
11	1	90	BEG	RU	-78.7	433.1	460.8	0.0	1.000	1.000
		95	END	RU	-78.9	430.0	458.0	0.0	1.000	1.000
11	2	95	BEG	EL	-78.9	949.5	962.5	0.0	2.208	2.208
		100	END	EL	28.0	240.4	246.8	0.0	2.208	2.208
12	1	100	BEG	RU	28.0	108.9	122.4	0.0	1.000	1.000
		105	END	RU	28.0	216.0	223.2	0.0	1.000	1.000
12	2	105	BEG	RU	13.7	105.9	109.4	0.0	1.000	1.000
		107	END	RU	13.7	305.8	307.0	0.0	1.000	1.000
13	1	107	BEG	RU	28.0	624.0	626.5	0.0	1.000	1.000
		110	END	RU	28.0	674.7	677.0	0.0	1.000	1.000
13	2	110	BEG	RU	28.0	674.7	677.0	0.0	1.000	1.000
		115	END	RU	28.0	725.4	727.6	0.0	1.000	1.000
14	1	115	BEG	RU	28.0	725.4	727.6	0.0	1.000	1.000
		120	END	RU	28.0	664.2	666.5	0.0	1.000	1.000
14	2	120	BEG	RU	28.0	664.2	666.5	0.0	1.000	1.000
		125	END	RU	28.0	603.0	605.6	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
15	1	125	BEG	RU	26.0	603.0	605.6	0.0	1.000	1.000
		130	END	RU	28.0	359.7	364.0	0.0	1.000	1.000
15	2	130	BEG	RU	28.0	359.7	364.0	0.0	1.000	1.000
		135	END	RU	28.0	118.1	130.8	0.0	1.000	1.000
16	1	135	BEG	RU	28.0	118.1	130.8	0.0	1.000	1.000
		140	END	RU	28.0	41.0	69.5	0.0	1.000	1.000
16	2	140	BEG	EL	28.0	90.6	106.5	0.0	2.208	2.208
		145	END	EL	-140.3	488.2	563.1	0.0	2.208	2.208
16	3	145	BEG	RU	-140.3	221.1	357.2	0.0	1.000	1.000
		150	END	RU	-141.2	223.5	360.2	0.0	1.000	1.000
17	1	150	BEG	RU	-141.2	223.5	360.2	0.0	1.000	1.000
		155	END	RU	-196.9	361.1	534.3	0.0	1.000	1.000
18	1	20	BEG	RU	-49.8	7674.2	7674.9	0.0	1.000	1.000
		160	END	RU	-49.8	6418.8	6419.5	0.0	1.000	1.000
18	2	160	BEG	RU	-49.8	6418.8	6419.5	0.0	1.000	1.000
		165	END	RU	-49.8	5175.1	5176.0	0.0	1.000	1.000
18	3	165	BEG	RU	-19.4	2018.3	2018.6	0.0	1.000	1.000
		167	END	RU	-19.4	1398.4	1398.9	0.0	1.000	1.000
19	1	167	BEG	RU	-49.8	3585.6	3586.9	0.0	1.000	1.000
		170	END	RU	-49.8	2091.6	2094.0	0.0	1.000	1.000
19	2	170	BEG	RU	-49.8	2091.6	2094.0	0.0	1.000	1.000
		175	END	RU	-49.8	658.2	665.6	0.0	1.000	1.000
20	1	175	BEG	RU	-49.8	658.2	665.6	0.0	1.000	1.000
		180	END	RU	-49.8	932.0	939.3	0.0	1.000	1.000
20	2	180	BEG	RU	-49.8	932.0	939.3	0.0	1.000	1.000
		185	END	RU	-49.8	1585.6	1588.7	0.0	1.000	1.000
20	3	185	BEG	EL	-49.8	2817.5	2819.3	0.0	1.777	1.777
		190	END	EL	181.3	4048.1	4064.3	0.0	1.777	1.777
21	1	190	BEG	RU	178.6	2274.0	2306.8	0.0	1.000	1.000
		195	END	RU	178.6	2278.7	2306.5	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE NPS MODEL 1 XYZ SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE,
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
21	2	195	BEG	RU	178.6	2278.7	2306.5	0.0	1.000	1.000
		200	END	RU	181.5	2277.6	2306.3	0.0	1.000	1.000
21	3	200	BEG	EL	181.5	4047.2	4063.5	0.0	1.777	1.777
		205	END	EL	169.5	2838.4	2858.5	0.0	1.777	1.777
22	1	205	BEG	RU	169.5	1597.3	1632.9	0.0	1.000	1.000
		210	END	RU	169.5	1283.7	1327.7	0.0	1.000	1.000
22	2	210	BEG	RU	169.5	1283.7	1327.7	0.0	1.000	1.000
		215	END	RU	169.5	977.4	1034.5	0.0	1.000	1.000
22	3	215	BEG	EL	169.5	1736.8	1769.6	0.0	1.777	1.777
		220	END	EL	.0	1090.9	1090.9	0.0	1.777	1.777
23	1	220	BEG	RU	.0	613.9	613.9	0.0	1.000	1.000
		225	END	RU	.0	597.7	597.7	0.0	1.000	1.000
23	2	225	BEG	RU	.0	597.7	597.7	0.0	1.000	1.000
		230	END	RU	.0	563.8	563.8	0.0	1.000	1.000
23	3	230	BEG	RU	.0	563.8	563.8	0.0	1.000	1.000
		235	END	RU	.0	535.0	535.0	0.0	1.000	1.000
23	4	235	BEG	RU	.0	535.0	535.0	0.0	1.000	1.000
		240	END	RU	.0	512.1	512.1	0.0	1.000	1.000
24	1	240	BEG	RU	0.0	512.1	512.1	0.0	1.000	1.000
		245	END	RU	0.0	341.4	341.4	0.0	1.000	1.000
24	2	245	BEG	RU	0.0	341.4	341.4	0.0	1.000	1.000
		250	END	RU	0.0	170.7	170.7	0.0	1.000	1.000
24	3	250	BEG	RU	0.0	170.7	170.7	0.0	1.000	1.000
		255	END	RU	0.0	.0	.0	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

VERSION - ADLPIPE- JULY, 1975
REFERENCE- ADLPIPE MANUAL, DATED JANUARY 1975

FEATURES OF ADLPIPE-

1. ASME SECTION III , CLASS 1 STRESS ANALYSIS AND STRESS REPORT PER NB 3600
2. ASME SECTION III , CLASS 1 USAGE FACTOR CALCULATION
3. ASME SECTION III , CLASS 2 AND 3 STRESS ANALYSIS AND STRESS REPORT PER WINTER 1972 ADDENDA
4. ANSI B31.1 , 1967 AND 1973 STRESS ANALYSIS AND REPORT
5. ISOMETRIC PLOT WITH SEQUENCE NUMBERS
6. ISOMETRIC PLOTTING WITH OR WITHOUT DIMENSIONS
7. PLAN AND ELEVATION DRAWINGS WITH OR WITHOUT DIMENSIONS
8. STEREOSCOPIC VIEWS OF DEFORMED PIPING
9. SKEW RESTRAINT ADDED (SEE REFERENCED INPUT MANUAL P. 39)
10. REVISED TAPE 14 FILE STRUCTURE (SEE REFERENCED INPUT MANUAL P. 43)
11. OPTIONAL ABSOLUTE SUM ON CLOSELY SPACED MODES
    (ACTIVATE BY SPECIFYING PERCENT RANGE OF MODES TO BE ABSOLUTELY SUMMED IN Z(2) FIELD ON SHOCK CARD)
12. HANGER SUMMARY IS AUTOMATICALLY PROVIDED

FOR FURTHER INFORMATION OR COMMENT CONTACT-
I. W. DINGWELL
A. D. LITTLE, INC
ACORN PARK
CAMBRIDGE, MASS 02140
TEL (617) 864-5770

COMPILED INPUT DATA

SA	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BS	1	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SH	1	20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI	0	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FR	1	6	.1000	.3000	.5000	.7000	.8000	.9000
FR	7	12	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000
FR	13	17	8.0000	10.0000	20.0000	50.0000	100.0000	0.0000
G	1	6	.0540	.0580	.0700	.0930	.1100	.1200
G	7	12	.1300	.2400	.3200	.3800	.4200	.4200
G	13	17	.3900	.3500	.2400	.1400	.1100	0.0000
EN	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

PIPE SYSTEM GEOMETRY

NUMBER OF NETWORK POINTS = 25
NUMBER OF SECTIONS = 24
ORDER OF DYNAMICAL STIFFNESS MATRIX = 64

NUMBER OF MEMBERS = 56
ORDER OF STIFFNESS MATRIX = 66

NETWORK POINT RESTRAINTS

		TRANSLATION			ROTATION		
NETWORK PT.	SEQ	X	Y	Z	X	Y	Z
1	5	RST	RST	RST	RST	RST	RST
2	15	FREE	FREE	FREE	FREE	FREE	FREE
3	20	FREE	FREE	FREE	FREE	FREE	FREE
4	30	FREE	FREE	FREE	FREE	FREE	FREE
5	40	FREE	FREE	FREE	FREE	FREE	FREE
6	50	FREE	FREE	FREE	FREE	FREE	FREE
7	57	FREE	FREE	FREE	FREE	FREE	FREE
8	70	FREE	FREE	FREE	FREE	FREE	FREE
9	85	FREE	FREE	FREE	FREE	FREE	FREE
10	87	RST	RST	RST	RST	RST	RST
11	90	FREE	FREE	FREE	FREE	FREE	FREE
12	100	FREE	FREE	FREE	FREE	FREE	FREE
13	107	FREE	FREE	FREE	FREE	FREE	FREE
14	115	FREE	FREE	FREE	FREE	FREE	FREE
15	125	FREE	FREE	FREE	FREE	FREE	FREE
16	135	FREE	FREE	FREE	FREE	FREE	FREE
17	150	FREE	FREE	FREE	FREE	FREE	FREE
18	165	RST	RST	RST	RST	RST	RST
19	167	FREE	FREE	FREE	FREE	FREE	FREE
20	175	FREE	FREE	FREE	FREE	FREE	FREE
21	190	FREE	FREE	FREE	FREE	FREE	FREE
22	205	FREE	FREE	FREE	FREE	FREE	FREE
23	220	FREE	FREE	FREE	FREE	FREE	FREE
24	240	FREE	FREE	FREE	FREE	FREE	FREE
25	255	RST	RST	FREE	FREE	FREE	FREE

NETWORK POINT MOVEMENTS (INCHES)

		TRANSLATION			ROTATION		
NETWORK PT.	SEQ	X	Y	Z	X	Y	Z

NO MOVEMENTS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

RESPONSE SPECTRA

FREQUENCY	X AMPLITUDE
.10	52.7925
.30	6.3011
.50	2.7377
.70	1.8557
.80	1.6805
.90	1.4485
1.00	1.2711
2.00	.5866
3.00	.3476
4.00	.2322
5.00	.1643
6.00	.1141
8.00	.0596
10.00	.0342
20.00	.0059
50.00	.0005
100.00	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

* NOTE *

FOR CURVED MEMBERS, QUANTITIES LISTED UNDER INITIAL CO-ORDS ARE CO-ORDS OF ARC CENTER. THE BRACKETED NUMBERS WHICH FOLLOW ARE THE ARC RADIUS (IN), INCLUDED ANGLE (DEG).

* NOTE *

FOR THIS VERSION, CO-ORD DIMENSIONS IN FEET ALL OTHER QUATITIES, RADIUS, THICKNESS, STRESS MOMENTS, ETC. ARE DIMENSIONED IN INCHES.

PIPE SYSTEM GEOMETRY

SECTION 1 CONNECTS SEQUENCE POINTS 5 AND 15 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	5	10	14.00	1.050	2.59	274.75	12.19	2.60	274.75	12.24	.27E+08	0.00	0.	44.18
2	EL/EL	10	15	14.00	1.050	2.60	271.00	12.24	(45.000	90.000	)	.27E+08	0.00	0.	44.18

SECTION 2 CONNECTS SEQUENCE POINTS 15 AND 20 AND HAS 1 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	15	20	14.00	1.050	3.38	271.00	15.91	3.38	269.25	15.91	.27E+08	0.00	0.	44.18

SECTION 3 CONNECTS SEQUENCE POINTS 20 AND 30 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	20	25	14.00	1.050	3.38	269.25	15.91	3.38	266.29	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	25	30	14.00	1.050	3.38	266.29	15.91	3.38	263.32	15.91	.27E+08	0.00	0.	44.18

SECTION 4 CONNECTS SEQUENCE POINTS 30 AND 40 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	30	35	14.00	1.050	3.38	263.32	15.91	3.38	260.36	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	35	40	14.00	1.050	3.38	260.36	15.91	3.38	257.39	15.91	.27E+08	0.00	0.	44.18

SECTION 5 CONNECTS SEQUENCE POINTS 40 AND 50 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	40	45	14.00	1.050	3.38	257.39	15.91	3.38	254.43	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	45	50	14.00	1.050	3.38	254.43	15.91	3.38	251.46	15.91	.27E+08	0.00	0.	44.18

SECTION 6 CONNECTS SEQUENCE POINTS 50 AND 57 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	50	55	14.00	1.050	3.38	251.46	15.91	3.38	246.46	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	55	57	15.00	2.050	3.38	246.46	15.91	3.38	241.04	15.91	.27E+08	0.00	0.	215.20

SECTION 7 CONNECTS SEQUENCE POINTS 57 AND 70 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	57	60	14.00	1.050	3.38	241.04	15.91	3.38	237.74	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	60	65	14.00	1.050	3.38	237.74	15.91	3.38	234.44	15.91	.27E+08	0.00	0.	44.18
3	RU/RU	65	70	14.00	1.050	3.38	234.44	15.91	3.38	231.64	15.91	.27E+08	0.00	0.	44.18

SECTION 8 CONNECTS SEQUENCE POINTS 70 AND 85 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	70	75	14.00	1.050	3.38	231.64	15.91	3.38	231.59	15.91	.27E+08	0.00	0.	44.18
2	EL/EL	75	80	14.00	1.050	7.11	231.59	15.49	(45.000	90.000	)	.27E+08	0.00	0.	44.18
3	RU/RU	80	85	14.00	1.050	7.11	227.84	15.49	7.16	227.84	15.49	.27E+08	0.00	0.	44.18

SECTION 9 CONNECTS SEQUENCE POINTS 85 AND 87 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	85	86	15.00	10.000	7.16	227.84	15.49	9.42	227.84	15.23	.27E+08	0.00	0.	324.36
2	RU/RU	86	87	15.00	10.000	9.42	227.84	15.23	9.42	232.17	15.23	.27E+08	0.00	0.	324.36

SECTION10 CONNECTS SEQUENCE POINTS 87 AND 90 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	87	88	15.00	10.000	9.42	232.17	15.23	12.04	232.17	15.71	.27E+08	0.00	0.	324.36
2	RU/RU	88	90	15.00	10.000	12.04	232.17	15.71	12.48	232.17	13.30	.27E+08	0.00	0.	324.36

SECTION11 CONNECTS SEQUENCE POINTS 90 AND 100 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	90	95	14.00	1.050	12.48	232.17	13.30	12.48	232.17	13.25	.27E+08	0.00	0.	44.18
2	EL/EL	95	100	14.00	1.050	12.48	235.92	13.25	(45.000	90.000	)	.27E+08	0.00	0.	44.18

SECTION12 CONNECTS SEQUENCE POINTS 106 AND 107 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	100	105	14.00	1.050	13.15	235.92	9.56	13.15	237.17	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	105	107	15.00	2.050	13.15	237.17	9.56	13.15	241.75	9.56	.27E+08	0.00	0.	173.10

SECTION13 CONNECTS SEQUENCE POINTS 107 AND 115 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	107	110	14.00	1.050	13.15	241.75	9.56	13.15	244.71	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	110	115	14.00	1.050	13.15	244.71	9.56	13.15	247.66	9.56	.27E+08	0.00	0.	44.18

SECTION14 CONNECTS SEQUENCE POINTS 115 AND 125 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	115	120	14.00	1.050	13.15	247.66	9.56	13.15	250.62	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	120	125	14.00	1.050	13.15	250.62	9.56	13.15	253.57	9.56	.27E+08	0.00	0.	44.18

SECTION15 CONNECTS SEQUENCE POINTS 125 AND 135 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	125	130	14.00	1.050	13.15	253.57	9.56	13.15	257.57	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	130	135	14.00	1.050	13.15	257.57	9.56	13.15	261.57	9.56	.27E+08	0.00	0.	44.18

SECTION16 CONNECTS SEQUENCE POINTS 135 AND 150 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	135	140	14.00	1.050	13.15	261.57	9.56	13.15	262.64	9.56	.27E+08	0.00	0.	44.18
2	EL/EL	140	145	14.00	1.050	10.12	262.64	7.35	(45.000	75.997)		.27E+08	0.00	0.	44.18
3	RU/RU	145	150	14.00	1.050	10.85	266.28	7.89	10.81	266.29	7.85	.27E+08	0.00	0.	44.18

SECTION17 CONNECTS SEQUENCE POINTS 150 AND 155 AND HAS 1 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	150	155	14.00	1.050	10.81	266.29	7.85	8.47	267.02	6.15	.27E+08	0.00	0.	44.18

SECTION18 CONNECTS SEQUENCE POINTS 20 AND 167 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	20	160	7.00	.753	3.38	269.25	15.91	.80	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	160	165	7.00	.753	.80	269.25	15.91	-1.77	269.25	15.91	.27E+08	0.00	0.	13.18
3	RU/RU	165	167	8.00	1.753	-1.77	269.25	15.91	-5.14	269.25	15.91	.27E+08	0.00	0.	98.17

SECTION19 CONNECTS SEQUENCE POINTS 167 AND 175 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET			FEET						
1	RU/RU	167	170	7.00	.753	-5.14	269.25	15.91	-8.48	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	170	175	7.00	.753	-8.48	269.25	15.91	-11.82	269.25	15.91	.27E+08	0.00	0.	13.18

SECTION20 CONNECTS SEQUENCE POINTS 175 AND 190 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	175	180	7.00	.753	-11.82	269.25	15.91	-15.17	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	180	185	7.00	.753	-15.17	269.25	15.91	-16.76	269.25	15.91	.27E+08	0.00	0.	13.18
3	EL/EL	185	190	7.00	.753	-16.76	269.37	17.65	(21.000	90.000)		.27E+08	0.00	0.	13.18

SECTION21 CONNECTS SEQUENCE POINTS 190 AND 205 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	190	195	7.00	.753	-18.51	269.37	17.65	-18.51	269.38	17.68	.27E+08	0.00	0.	13.18
2	RU/RU	195	200	7.00	.753	-18.51	269.38	17.68	-18.51	269.38	17.71	.27E+08	0.00	0.	13.18
3	EL/EL	200	205	7.00	.753	-16.76	269.38	17.71	(21.000	90.000)		.27E+08	0.00	0.	13.18

SECTION22 CONNECTS SEQUENCE POINTS 205 AND 220 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	205	210	7.00	.753	-16.76	269.50	19.45	-15.88	269.50	19.45	.27E+08	0.00	0.	13.18
2	RU/RU	210	215	7.00	.753	-15.88	269.50	19.45	-15.01	269.50	19.45	.27E+08	0.00	0.	13.18
3	EL/EL	215	220	7.00	.753	-15.01	269.50	21.20	(21.000	90.000)		.27E+08	0.00	0.	13.18

SECTION23 CONNECTS SEQUENCE POINTS 220 AND 240 AND HAS 4 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	220	225	7.00	.753	-13.26	269.50	21.20	-13.26	269.50	22.57	.27E+08	0.00	0.	13.18
2	RU/RU	225	230	7.00	.753	-13.26	269.50	22.57	-13.26	269.50	25.68	.27E+08	0.00	0.	13.18

3	RU/RU	230	235	7.00	.753	-13.26	269.50	25.68	-13.26	269.50	28.79	.27E+08	0.00	0.		13.18
4	RU/RU	235	240	7.00	.753	-13.26	269.50	28.79	-13.26	269.50	31.91	.27E+08	0.00	0.		13.18

SECTION24 CONNECTS SEQUENCE POINTS 240 AND 255 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	240	245	7.00	.753	-13.26	269.50	31.91	-13.26	269.50	35.02	.27E+08	0.00	0.	13.18
2	RU/RU	245	250	7.00	.753	-13.26	269.50	35.02	-13.26	269.50	38.13	.27E+08	0.00	0.	13.18
3	RU/RU	250	255	7.00	.753	-13.26	269.50	38.13	-13.26	269.50	41.25	.27E+08	0.00	0.	13.18
	WEIGHT					.66E+04									

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL DEFLECTIONS FOR 20 FREQUENCIES
DEFLECTIONS INCLUDE SHOCK SPECTRA DISPLACEMENTS AND MODAL PARTICIPATION FACTORS

		MODE AND FREQUENCY									
		1	2	3	4	5	6	7	8	9	10
LUMP	DIR	1.927	3.721	7.612	8.611	11.598	13.072	13.839	15.604	15.926	18.087
15	1	.001	.001	.009	.008	.000	-.000	0.000	0.000	-.000	-.000
15	2	.000	.000	.006	.000	-.000	.000	0.000	0.000	-.000	.000
15	3	.000	.000	.007	-.004	-.000	.000	0.000	0.000	-.000	.000
20	1	.002	.002	.013	.012	.000	-.000	0.000	0.000	-.000	-.000
20	2	.000	.000	.006	.000	-.000	.000	0.000	0.000	-.000	.000
20	3	.000	.000	.012	-.007	-.000	.000	0.000	0.000	-.000	.000
30	1	.002	.005	.027	.024	-.000	-.000	0.000	0.000	.000	-.000
30	2	.000	.000	.006	.000	-.000	.000	0.000	0.000	-.000	.000
30	3	.001	.000	.028	-.020	-.000	.000	0.000	0.000	-.000	.000
40	1	.002	.006	.037	.033	-.000	.000	0.000	0.000	.000	-.000
40	2	.000	.000	.006	.001	-.000	.000	0.000	0.000	-.000	.000
40	3	.001	.000	.040	-.030	-.000	.000	0.000	0.000	-.000	.000
50	1	.002	.006	.041	.037	-.001	.000	0.000	0.000	.000	-.000
50	2	.000	.000	.006	.001	-.000	.000	0.000	0.000	-.000	.000
50	3	.001	.000	.045	-.035	-.000	.000	0.000	0.000	.000	.000
57	1	.001	.004	.032	.026	-.001	.000	0.000	0.000	.000	.000
57	2	.000	.000	.006	.001	-.000	.000	0.000	0.000	-.000	.000
57	3	.001	.000	.035	-.028	.000	.000	0.000	0.000	.000	-.000
70	1	.000	.001	.009	.005	-.000	.000	0.000	0.000	-.000	.000
70	2	.000	.000	.006	.001	-.000	.000	0.000	0.000	-.000	.000
70	3	.001	.000	.013	-.009	.000	.000	0.000	0.000	.000	-.000
85	1	-.000	.000	-.000	.000	-.000	.000	0.000	0.000	.000	-.000
85	2	.000	-.000	.000	-.000	.000	.000	0.000	0.000	-.000	.000
85	3	.000	.000	.001	-.000	.000	.000	0.000	0.000	.000	-.000
90	1	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
90	2	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
90	3	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
100	1	0.000	0.000	0.000	0.000	0.000	0.000	.003	.004	0.000	0.000
100	2	0.000	0.000	0.000	0.000	0.000	0.000	.002	-.001	0.000	0.000
100	3	0.000	0.000	0.000	0.000	0.000	0.000	.003	-.001	0.000	0.000
107	1	0.000	0.000	0.000	0.000	0.000	0.000	.004	.009	0.000	0.000
107	2	0.000	0.000	0.000	0.000	0.000	0.000	.002	-.001	0.000	0.000
107	3	0.000	0.000	0.000	0.000	0.000	0.000	.007	-.004	0.000	0.000
115	1	0.000	0.000	0.000	0.000	0.000	0.000	.005	.011	0.000	0.000
115	2	0.000	0.000	0.000	0.000	0.000	0.000	.002	-.001	0.000	0.000
115	3	0.000	0.000	0.000	0.000	0.000	0.000	.009	-.007	0.000	0.000
125	1	0.000	0.000	0.000	0.000	0.000	0.000	.004	.009	0.000	0.000
125	2	0.000	0.000	0.000	0.000	0.000	0.000	.002	-.001	0.000	0.000
125	3	0.000	0.000	0.000	0.000	0.000	0.000	.008	-.007	0.000	0.000
135	1	0.000	0.000	0.000	0.000	0.000	0.000	.001	.005	0.000	0.000
135	2	0.000	0.000	0.000	0.000	0.000	0.000	.002	-.000	0.000	0.000
135	3	0.000	0.000	0.000	0.000	0.000	0.000	.004	-.003	0.000	0.000
150	1	0.000	0.000	0.000	0.000	0.000	0.000	-.000	.000	0.000	0.000
150	2	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
150	3	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
167	1	.002	.002	.013	.012	.000	-.000	0.000	0.000	-.000	-.000
167	2	-.000	-.029	-.001	-.004	.000	.000	0.000	0.000	-.000	.001
167	3	.018	.000	.017	-.002	.001	-.000	0.000	0.000	-.003	-.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

187	2	-.000	-.029	-.001	-.004	.000	.000	0.000	0.000	-.000	-.000
187	3	.018	.000	.017	-.002	.001	-.000	0.000	0.000	-.003	-.000

175	1	.002	.002	.013	.012	.000	-.000	0.000	0.000	-.000	-.000
175	2	-.001	-.070	.004	.004	.000	.001	0.000	0.000	-.000	.000
175	3	.041	.000	.009	.000	.003	-.000	0.000	0.000	-.003	-.000
190	1	.006	.001	.012	.014	.002	-.000	0.000	0.000	.001	-.000
190	2	-.002	-.115	.016	.018	.001	.001	0.000	0.000	.000	-.001
190	3	.064	-.001	-.002	.004	.006	-.000	0.000	0.000	.001	.000
205	1	.008	.000	.013	.017	.005	-.000	0.000	0.000	.001	-.000
205	2	-.001	-.101	.017	.014	.000	.000	0.000	0.000	.000	-.001
205	3	.063	-.001	-.003	.002	.004	-.000	0.000	0.000	.000	.000
220	1	.008	.000	.014	.018	.007	-.000	0.000	0.000	.001	.000
220	2	-.001	-.075	.015	.008	-.001	-.002	0.000	0.000	.000	.000
220	3	.063	-.001	-.007	-.002	-.001	.000	0.000	0.000	.000	.000
240	1	.004	.000	.011	.013	.008	-.000	0.000	0.000	.001	.000
240	2	-.006	-.039	.011	.005	-.001	-.002	0.000	0.000	.000	-.000
240	3	.063	-.001	-.007	-.002	-.001	.000	0.000	0.000	.000	.000
255	3	.063	-.001	-.007	-.002	-.001	.000	0.000	0.000	.000	.000

MODE AND FREQUENCY

		11	12	13	14	15	16	17	18	19	20
LUMP	DIR	21.273	23.561	27.611	28.677	31.573	32.317	38.573	41.836	47.390	48.929

MODAL DEFLECTIONS ARE LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 1 FREQUENCY 1.93

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	18.	98.	-321.	9685.	-42453.	14390.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-18.	-98.	321.	-9740.	42504.	-14378.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
1	2	15	END	-18.	-98.	321.	578.	46299.	-12691.	.0014	.0002	.0001	-.0000	.0000	.0000
2	1	15	BEG	19.	98.	-321.	-578.	-46299.	12691.	.0014	.0002	.0001	-.0000	.0000	.0000
2	1	20	END	-19.	-98.	321.	7321.	46299.	-12291.	.0015	.0002	.0002	-.0000	.0001	.0000
3	1	20	BEG	21.	93.	5.	-6853.	14089.	12483.	.0015	.0002	.0002	-.0000	.0001	.0000
3	1	25	END	-21.	-93.	-5.	6674.	-14089.	-11731.	.0017	.0002	.0004	-.0000	.0000	.0000
3	2	30	END	-21.	-93.	-5.	6496.	-14089.	-10979.	.0018	.0002	.0006	-.0000	.0000	.0000
4	1	30	BEG	23.	93.	6.	-6496.	14089.	10979.	.0018	.0002	.0006	-.0000	.0000	.0000
4	1	35	END	-23.	-93.	-6.	6291.	-14089.	-10148.	.0019	.0002	.0008	-.0000	.0000	.0000
4	2	40	END	-23.	-93.	-6.	6086.	-14089.	-9318.	.0019	.0002	.0009	-.0000	.0000	-.0000
5	1	40	BEG	26.	94.	7.	-6086.	14089.	9318.	.0019	.0002	.0009	-.0000	.0000	-.0000
5	1	45	END	-26.	-94.	-7.	5845.	-14089.	-8407.	.0018	.0002	.0009	-.0000	.0000	-.0000
5	2	50	END	-26.	-94.	-7.	5603.	-14089.	-7495.	.0017	.0002	.0010	-.0000	.0000	-.0000
6	1	50	BEG	29.	94.	9.	-5603.	14089.	7495.	.0017	.0002	.0010	-.0000	.0000	-.0000
6	1	55	END	-29.	-94.	-9.	5086.	-14089.	-5771.	.0015	.0002	.0010	.0000	.0000	-.0000
6	2	57	END	-29.	-94.	-9.	4531.	-14089.	-3903.	.0011	.0002	.0009	.0000	.0000	-.0000
7	1	57	BEG	35.	95.	14.	-4531.	14089.	3903.	.0011	.0002	.0009	.0000	.0000	-.0000
7	1	60	END	-35.	-95.	-14.	3976.	-14089.	-2506.	.0008	.0002	.0008	.0000	.0000	-.0000
7	2	65	END	-35.	-95.	-14.	3420.	-14089.	-1108.	.0006	.0002	.0007	.0000	.0000	-.0000
7	3	70	END	-35.	-95.	-14.	2948.	-14089.	78.	.0003	.0002	.0006	.0000	.0000	-.0000
8	1	70	BEG	36.	96.	15.	-2948.	14089.	-78.	.0003	.0002	.0006	.0000	.0000	-.0000
8	1	75	END	-36.	-96.	-15.	2939.	-14089.	100.	.0003	.0002	.0006	.0000	.0000	-.0000
8	2	80	END	-36.	-96.	-15.	2736.	-14935.	5987.	-.0000	.0000	.0000	-.0000	.0000	-.0000

8	2	80	END	-36.	-96.	-15.	2730.	-14935.	5987.	-.0000	.0000	.0000	-.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-36.	-96.	-15.	2743.	-14946.	6044.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	85	BEG	36.	96.	15.	-2743.	14946.	-6044.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	86	END	-36.	-96.	-15.	3037.	-15467.	8641.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	2	87	END	-36.	-96.	-15.	3826.	-15467.	6783.	.0000	.0000	-.0000	.0000	-.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-0.	1.	-326.	-469.	-60388.	-192.	.0015	.0002	.0002	-.0000	.0001	.0000
18	1	160	END	0.	-1.	326.	469.	50318.	157.	.0015	.0000	.0033	-.0000	.0001	.0000
18	2	165	END	0.	-1.	326.	469.	40248.	123.	.0015	-.0002	.0090	-.0000	.0002	.0000
18	3	167	END	0.	-1.	326.	469.	27070.	78.	.0015	-.0005	.0183	-.0000	.0002	.0000
19	1	167	BEG	2.	0.	-294.	-469.	-27070.	-78.	.0015	-.0005	.0183	-.0000	.0002	.0000
19	1	170	END	-2.	-0.	294.	469.	15296.	66.	.0015	-.0007	.0291	-.0000	.0003	.0000
19	2	175	END	-2.	-0.	294.	469.	3523.	53.	.0015	-.0010	.0411	-.0000	.0003	.0000
20	1	175	BEG	3.	-0.	-276.	-469.	-3523.	-53.	.0015	-.0010	.0411	-.0000	.0003	.0000
20	1	180	END	-3.	0.	276.	469.	-7539.	58.	.0015	-.0013	.0535	-.0000	.0003	.0000
20	2	185	END	-3.	0.	276.	469.	-12806.	60.	.0015	-.0014	.0592	.0000	.0003	.0000
20	3	190	END	-3.	0.	276.	58.	-18539.	58.	.0060	-.0016	.0644	-.0000	.0002	.0000
21	1	190	BEG	5.	-1.	-256.	-58.	18539.	-58.	.0060	-.0016	.0644	-.0000	.0002	.0000
21	1	195	END	-5.	1.	256.	52.	-18537.	58.	.0060	-.0016	.0644	-.0000	.0002	.0000
21	2	200	END	-5.	1.	256.	46.	-18535.	58.	.0061	-.0016	.0644	-.0000	.0002	.0000
21	3	205	END	-5.	1.	256.	-324.	-13069.	38.	.0083	-.0013	.0630	.0000	.0000	.0000
22	1	205	BEG	7.	-1.	-242.	324.	13069.	-38.	.0083	-.0013	.0630	.0000	.0000	.0000
22	1	210	END	-7.	1.	242.	-324.	-10531.	28.	.0083	-.0011	.0627	.0000	.0000	.0000
22	2	215	END	-7.	1.	242.	-324.	-7994.	19.	.0083	-.0009	.0625	.0000	.0000	.0000
22	3	220	END	-7.	1.	242.	-305.	-2779.	-0.	.0081	-.0006	.0626	-.0000	-.0000	.0000
23	1	220	BEG	10.	-1.	-213.	305.	2779.	-0.	.0081	-.0006	.0626	-.0000	-.0000	.0000
23	1	225	END	-10.	1.	213.	-286.	-2610.	0.	.0077	-.0006	.0626	-.0000	-.0000	.0000
23	2	230	END	-10.	1.	213.	-242.	-2223.	0.	.0067	-.0005	.0626	-.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-10.	1.	213.	-198.	-1837.	0.	.0056	-.0004	.0626	-.0000	-.0000	.0000
23	4	240	END	-10.	1.	213.	-154.	-1451.	0.	.0043	-.0003	.0626	-.0000	-.0000	.0000
24	1	240	BEG	13.	-1.	-175.	154.	1451.	0.	.0043	-.0003	.0626	-.0000	-.0000	.0000
24	1	245	END	-13.	1.	175.	-103.	-967.	0.	.0029	-.0002	.0626	-.0000	-.0000	.0000
24	2	250	END	-13.	1.	175.	-51.	-484.	0.	.0015	-.0001	.0626	-.0000	-.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	.0000	.0626	-.0000	-.0000	.0000
24	3	255	END	-13.	1.	175.	0.	0.	0.	0.0000	.0000	.0626	-.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 1 FREQUENCY 1.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	18.	94.	-321.	9685.	-42453.	14390.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	1.	0.	0.	0.	-0.	-0.	.0014	.0002	.0001	-.0000	.0000	.0000
3	20	2.	0.	0.	0.	-0.	-0.	.0015	.0002	.0002	-.0000	.0001	.0000
4	30	2.	0.	1.	0.	-0.	-0.	.0018	.0002	.0006	-.0000	.0000	.0000
5	40	2.	0.	1.	0.	0.	-0.	.0019	.0002	.0009	-.0000	.0000	-.0000
6	50	3.	0.	2.	0.	-0.	0.	.0017	.0002	.0010	-.0000	.0000	-.0000
7	57	7.	1.	5.	-0.	0.	0.	.0011	.0002	.0009	.0000	.0000	-.0000
8	70	0.	0.	1.	-0.	-0.	0.	.0003	.0002	.0006	.0000	.0000	-.0000
9	85	-0.	0.	0.	-0.	-0.	0.	-.0000	.0000	.0000	-.0000	.0000	-.0000
10	87	-36.	-96.	-15.	3626.	-15467.	6783.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	3.	-1.	32.	-0.	-0.	-0.	.0015	-.0005	.0183	-.0000	.0002	.0000
20	175	1.	-0.	18.	0.	-0.	0.	.0015	-.0010	.0411	-.0000	.0003	.0000
21	190	2.	-1.	20.	0.	0.	-0.	.0060	-.0016	.0644	-.0000	.0002	.0000
22	205	2.	-0.	14.	0.	-0.	-0.	.0083	-.0013	.0630	.0000	.0000	.0000
23	220	4.	-0.	29.	0.	0.	-0.	.0081	-.0006	.0626	-.0000	-.0000	.0000
24	240	3.	-0.	38.	0.	0.	0.	.0043	-.0003	.0626	-.0000	-.0000	.0000
25	255	-13.	1.	175.	0.	0.	0.	0.0000	.0000	.0626	-.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

25 255 13. 1. 175. 0. 0. 0. 0.0000 .0000 .0626 -.0000 -.0000 .0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 1 FREQUENCY 1.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 2 FREQUENCY 3.72

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	86.	125.	12.	-6000.	9012.	-36102.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-86.	-125.	-12.	5927.	-8963.	36118.	-.0000	-.0000	.0000	.0000	-.0000	.0000
1	2	15	END	-86.	-125.	-12.	-131.	-5285.	41166.	.0010	.0001	.0001	-.0000	.0000	.0000
2	1	15	BEG	89.	126.	12.	131.	5285.	-41166.	.0010	.0001	.0001	-.0000	.0000	.0000
2	1	20	END	-89.	-126.	-12.	-388.	-5285.	43037.	.0020	.0001	.0001	-.0000	.0000	.0000
3	1	20	BEG	114.	-501.	-1.	-2447.	1945.	73305.	.0020	.0001	.0001	-.0000	.0000	.0000
3	1	25	END	-114.	501.	1.	2466.	-1945.	-69262.	.0035	.0001	.0002	-.0000	.0000	.0000
3	2	30	END	-114.	501.	1.	2484.	-1945.	-65220.	.0047	.0001	.0003	-.0000	.0000	.0000
4	1	30	BEG	134.	-500.	1.	-2484.	1945.	65220.	.0047	.0001	.0003	-.0000	.0000	.0000
4	1	35	END	-134.	500.	-1.	2462.	-1945.	-60437.	.0054	.0001	.0003	-.0000	.0000	.0000
4	2	40	END	-134.	500.	-1.	2440.	-1945.	-55654.	.0059	.0001	.0003	-.0000	.0000	.0000
5	1	40	BEG	161.	-500.	2.	-2440.	1945.	55654.	.0059	.0001	.0003	-.0000	.0000	.0000
5	1	45	END	-161.	500.	-2.	2364.	-1945.	-49943.	.0060	.0002	.0004	-.0000	.0000	-.0000
5	2	50	END	-161.	500.	-2.	2288.	-1945.	-44232.	.0058	.0002	.0004	-.0000	.0000	-.0000
6	1	50	BEG	199.	-498.	5.	-2288.	1945.	44232.	.0058	.0002	.0004	-.0000	.0000	-.0000
6	1	55	END	-199.	498.	-5.	2009.	-1945.	-32266.	.0049	.0002	.0004	.0000	.0000	-.0000
6	2	57	END	-199.	498.	-5.	1707.	-1945.	-19305.	.0035	.0002	.0003	.0000	.0000	-.0000
7	1	57	BEG	279.	-494.	12.	-1707.	1945.	19305.	.0035	.0002	.0003	.0000	.0000	-.0000
7	1	60	END	-279.	494.	-12.	1239.	-1945.	-8241.	.0026	.0002	.0003	.0000	.0000	-.0000
7	2	65	END	-279.	494.	-12.	772.	-1945.	2822.	.0015	.0002	.0002	.0000	.0000	-.0000
7	3	70	END	-279.	494.	-12.	375.	-1945.	12217.	.0007	.0002	.0002	.0000	.0000	-.0000
8	1	70	BEG	283.	-493.	13.	-375.	1945.	-12217.	.0007	.0002	.0002	.0000	.0000	-.0000
8	1	75	END	-283.	493.	-13.	367.	-1945.	12367.	.0007	.0002	.0002	.0000	.0000	-.0000
8	2	80	END	-283.	493.	-13.	-2645.	-3918.	3066.	.0000	-.0000	.0000	.0000	.0000	.0000

8	2	80	END	-283.	493.	-13.	-2645.	-3916.	3088.	.0000	-.0000	.0000	.0000	.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-283.	493.	-13.	-2677.	-3944.	2772.	.0000	-.0000	.0000	.0000	.0000	.0000
9	1	85	BEG	284.	-494.	13.	2677.	3944.	-2772.	.0000	-.0000	.0000	.0000	.0000	.0000
9	1	86	END	-284.	494.	-13.	-4194.	-5171.	-10628.	.0000	-.0006	-.0000	.0000	.0000	.0000
9	2	87	END	-284.	494.	-13.	-3515.	-5171.	-25384.	-.0000	-.0006	.0000	.0000	.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-17.	627.	13.	2835.	3339.	-116342.	.0020	.0001	.0001	-.0000	.0000	.0000
18	1	160	END	17.	-627.	-13.	-2835.	-2933.	96971.	.0020	-.0043	.0003	-.0000	.0000	.0002
18	2	165	END	17.	-627.	-13.	-2835.	-2526.	77601.	.0020	-.0136	.0004	-.0000	.0000	.0004
16	3	167	END	17.	-627.	-13.	-2835.	-1994.	52250.	.0020	-.0295	.0004	-.0000	-.0000	.0004
19	1	167	BEG	-4.	433.	16.	2835.	1994.	-52250.	.0020	-.0295	.0004	-.0000	-.0000	.0004
19	1	170	END	4.	-433.	-16.	-2835.	-1363.	34883.	.0020	-.0482	.0003	-.0000	-.0000	.0005
19	2	175	END	4.	-433.	-16.	-2835.	-732.	17516.	.0020	-.0698	.0000	-.0000	-.0000	.0006
20	1	175	BEG	-0.	321.	16.	2835.	732.	-17516.	.0020	-.0698	.0000	-.0000	-.0000	.0006
20	1	180	END	0.	-321.	-16.	-2835.	-100.	4656.	.0020	-.0930	-.0003	-.0000	-.0000	.0006
20	2	185	END	0.	-321.	-16.	-2835.	201.	-1470.	.0020	-.1042	-.0004	-.0000	-.0000	.0006
20	3	190	END	0.	-321.	-16.	-9529.	523.	-8204.	.0010	-.1150	-.0007	-.0001	-.0000	.0006
21	1	190	BEG	1.	185.	15.	9529.	-523.	8204.	.0010	-.1150	-.0007	-.0001	-.0000	.0006
21	1	195	END	-1.	-185.	-15.	-9593.	523.	-8204.	.0010	-.1150	-.0007	-.0001	-.0000	.0006
21	2	200	END	-1.	-185.	-15.	-9658.	524.	-8204.	.0010	-.1150	-.0007	-.0001	-.0000	.0006
21	3	205	END	-1.	-185.	-15.	-13521.	227.	-4310.	.0002	-.1012	-.0009	-.0001	.0000	.0005
22	1	205	BEG	1.	103.	14.	13521.	-227.	4310.	.0002	-.1012	-.0009	-.0001	.0000	.0005
22	1	210	END	-1.	-103.	-14.	-13521.	77.	-3233.	.0002	-.0956	-.0009	-.0001	.0000	.0005
22	2	215	END	-1.	-103.	-14.	-13521.	-72.	-2155.	.0002	-.0899	-.0009	-.0002	.0000	.0005
22	3	220	END	-1.	-103.	-14.	-15676.	-351.	-0.	.0002	-.0746	-.0010	-.0002	.0000	.0006
23	1	220	BEG	1.	-24.	13.	15676.	351.	-0.	.0002	-.0746	-.0010	-.0002	.0000	.0006
23	1	225	END	-1.	24.	-13.	-15278.	-330.	0.	.0002	-.0707	-.0010	-.0002	.0000	.0006
23	2	230	END	-1.	24.	-13.	-14368.	-282.	0.	.0002	-.0612	-.0010	-.0003	-.0000	.0006

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-1.	24.	-13.	-13459.	-234.	0.	.0002	-.0506	-.0010	-.0003	-.0000	.0006
23	4	240	END	-1.	24.	-13.	-12549.	-186.	0.	.0002	-.0390	-.0010	-.0003	-.0000	.0006
24	1	240	BEG	2.	-112.	10.	12549.	186.	0.	.0002	-.0390	-.0010	-.0003	-.0000	.0006
24	1	245	END	-2.	112.	-10.	-8366.	-124.	0.	.0001	-.0265	-.0010	-.0003	-.0000	.0006
24	2	250	END	-2.	112.	-10.	-4183.	-62.	0.	.0001	-.0134	-.0010	-.0004	-.0000	.0006
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	.0006	-.0010	-.0004	-.0000	.0006
24	3	255	END	-2.	112.	-10.	0.	0.	0.	-.0000	.0006	-.0010	-.0004	-.0000	.0006

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 2 FREQUENCY 3.72

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	86.	125.	12.	-6000.	9012.	-36102.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	3.	0.	0.	0.	-0.	-0.	.0010	.0001	.0001	-.0000	.0000	.0000
3	20	8.	0.	0.	0.	-0.	-0.	.0020	.0001	.0001	-.0000	.0000	.0000
4	30	21.	1.	1.	0.	-0.	-0.	.0047	.0001	.0003	-.0000	.0000	.0000
5	40	26.	1.	2.	0.	0.	-0.	.0059	.0001	.0003	-.0000	.0000	.0000
6	50	39.	1.	3.	0.	-0.	0.	.0058	.0002	.0004	-.0000	.0000	-.0000
7	57	80.	4.	7.	-0.	0.	0.	.0035	.0002	.0003	.0000	.0000	-.0000
8	70	4.	1.	1.	-0.	-0.	0.	.0007	.0002	.0002	.0000	.0000	-.0000
9	85	1.	-1.	0.	-0.	-0.	-0.	.0000	-.0000	.0000	.0000	.0000	.0000
10	87	-284.	494.	-13.	-3515.	-5171.	-25384.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	13.	-194.	3.	-0.	-0.	-0.	.0020	-.0295	.0004	-.0000	-.0000	.0004
20	175	3.	-112.	0.	0.	-0.	-0.	.0020	-.0698	.0000	-.0000	-.0000	.0006
21	190	1.	-135.	-1.	-0.	-0.	-0.	.0010	-.1150	-.0007	-.0001	-.0000	.0006
22	205	0.	-83.	-1.	0.	-0.	-0.	.0002	-.1012	-.0009	-.0001	.0000	.0005
23	220	0.	-127.	-2.	0.	-0.	-0.	.0002	-.0746	-.0010	-.0002	.0000	.0006
24	240	0.	-88.	-2.	0.	0.	0.	.0002	-.0390	-.0010	-.0003	-.0000	.0006
25	255	-2.	112.	-10.	0.	0.	0.	-.0000	.0000	-.0010	-.0004	-.0000	.0006

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

25 255 -2. 12. -10. 0. 0. 0. -.0000 .0000 -.0010 -.0004 -.0000 .0006

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 2 FREQUENCY 3.72

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 3 FREQUENCY 7.61

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-3297.	-132.	-2625.	151031.	-119039.	-189561.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	3297.	132.	2625.	-150953.	117431.	189545.	.0000	.0000	.0000	-.0000	.0000	.0000
1	2	15	END	3297.	132.	2625.	-27011.	-3134.	39945.	.0092	.0057	.0074	-.0002	.0001	.0002
2	1	15	BEG	-3185.	-64.	-2535.	27011.	3134.	-39945.	.0092	.0057	.0074	-.0002	.0001	.0002
2	1	20	END	3185.	64.	2535.	26228.	-3134.	-26950.	.0133	.0057	.0124	-.0002	.0001	.0002
3	1	20	BEG	-2316.	260.	-2247.	-23300.	-30184.	-29487.	.0133	.0057	.0124	-.0002	.0001	.0002
3	1	25	END	2316.	-260.	2247.	103253.	30184.	-52906.	.0201	.0057	.0206	-.0002	.0001	.0002
3	2	30	END	2316.	-260.	2247.	183206.	30184.	-135299.	.0266	.0057	.0282	-.0002	.0001	.0002
4	1	30	BEG	-1821.	366.	-1721.	-183206.	-30184.	135299.	.0266	.0057	.0282	-.0002	.0001	.0002
4	1	35	END	1821.	-366.	1721.	244448.	30184.	-200086.	.0323	.0057	.0348	-.0002	.0001	.0001
4	2	40	END	1821.	-366.	1721.	305689.	30184.	-264873.	.0368	.0057	.0400	-.0001	.0002	.0001
5	1	40	BEG	-1135.	471.	-977.	-305689.	-30184.	264873.	.0368	.0057	.0400	-.0001	.0002	.0001
5	1	45	END	1135.	-471.	977.	340445.	30184.	-305259.	.0398	.0057	.0433	-.0001	.0002	.0001
5	2	50	END	1135.	-471.	977.	375201.	30184.	-345646.	.0411	.0056	.0448	-.0000	.0002	.0000
6	1	50	BEG	24.	631.	286.	-375201.	-30184.	345646.	.0411	.0056	.0448	-.0000	.0002	.0000
6	1	55	END	-24.	-631.	-286.	358019.	30184.	-344211.	.0387	.0056	.0423	.0001	.0002	-.0001
6	2	57	END	-24.	-631.	-286.	339409.	30184.	-342657.	.0315	.0056	.0349	.0001	.0002	-.0001
7	1	57	BEG	3002.	1162.	3582.	-339409.	-30184.	342657.	.0315	.0056	.0349	.0001	.0002	-.0001
7	1	60	END	-3002.	-1162.	-3582.	197466.	30184.	-223721.	.0249	.0056	.0281	.0002	.0002	-.0002
7	2	65	END	-3002.	-1162.	-3582.	55523.	30184.	-104784.	.0167	.0056	.0200	.0002	.0002	-.0002
7	3	70	END	-3002.	-1162.	-3582.	-65012.	30184.	-3785.	.0092	.0056	.0127	.0002	.0002	-.0002
8	1	70	BEG	3223.	1296.	3889.	65012.	-30184.	3785.	.0092	.0056	.0127	.0002	.0002	-.0002
8	1	75	END	-3223.	-1296.	-3889.	-67345.	30184.	-1851.	.0090	.0056	.0125	.0002	.0002	-.0002
8	2	80	END	-3223.	-1296.	-3889.	-235959.	-159643.	201181.	-.0000	.0003	.0006	.0000	.0000	-.0000

8	2	80	END	-3223.	-1296.	-3889.	-235959.	-159643.	201181.	-.0000	.0003	.0006	.0000	[illegible]	[illegible]

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-3223.	-1296.	-3889.	-235874.	-162166.	201952.	-.0000	.0003	.0005	.0000	.0000	-.0000
9	1	85	BEG	3220.	1319.	3935.	235874.	162166.	-201952.	-.0000	.0003	.0005	.0000	.0000	-.0000
9	1	86	END	-3220.	-1319.	-3935.	-231821.	-278813.	237744.	-.0001	.0006	-.0001	.0000	.0000	-.0000
9	2	87	END	-3220.	-1319.	-3935.	-27237.	-278813.	70309.	.0000	.0000	.0000	.0000	.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-657.	-233.	-89.	-2928.	33318.	56437.	.0133	.0057	.0124	-.0002	.0001	.0002
18	1	160	END	657.	233.	89.	2928.	-36079.	-49237.	.0133	.0013	.0155	-.0002	.0001	.0001
18	2	165	END	657.	233.	89.	2928.	-38840.	-42038.	.0133	-.0005	.0168	-.0002	.0000	.0000
18	3	167	END	657.	233.	89.	2928.	-42453.	-32615.	.0133	-.0009	.0166	-.0002	-.0000	-.0000
19	1	167	BEG	-290.	-258.	368.	-2928.	42453.	32615.	.0133	-.0009	.0166	-.0002	-.0000	-.0000
19	1	170	END	290.	258.	-368.	2928.	-27702.	-22269.	.0133	.0005	.0142	-.0002	-.0001	-.0001
19	2	175	END	290.	258.	-368.	2928.	-12950.	-11923.	.0134	.0038	.0094	-.0002	-.0001	-.0001
20	1	175	BEG	-200.	-232.	431.	-2928.	12950.	11923.	.0134	.0038	.0094	-.0002	-.0001	-.0001
20	1	180	END	200.	232.	-431.	2928.	4327.	-2660.	.0134	.0081	.0035	-.0002	-.0001	-.0001
20	2	185	END	200.	232.	-431.	2928.	12557.	1841.	.0134	.0103	.0007	-.0002	-.0001	-.0001
20	3	190	END	200.	232.	-431.	6442.	17413.	7022.	.0124	.0160	-.0016	-.0001	-.0000	-.0001
21	1	190	BEG	-139.	-154.	423.	-8442.	-17413.	-7022.	.0124	.0160	-.0016	-.0001	-.0000	-.0001
21	1	195	END	139.	154.	-423.	8505.	17364.	7025.	.0124	.0161	-.0016	-.0001	-.0000	-.0001
21	2	200	END	139.	154.	-423.	8571.	17315.	7029.	.0124	.0161	-.0016	-.0001	-.0000	-.0001
21	3	205	END	139.	154.	-423.	12426.	5512.	4008.	.0133	.0170	-.0032	-.0001	.0001	-.0001
22	1	205	BEG	-94.	-95.	412.	-12426.	-5512.	-4008.	.0133	.0170	-.0032	-.0001	.0001	-.0001
22	1	210	END	94.	95.	-412.	12426.	1184.	3006.	.0133	.0162	-.0042	-.0001	.0001	-.0001
22	2	215	END	94.	95.	-412.	12426.	-3145.	2004.	.0133	.0154	-.0052	-.0001	.0001	-.0001
22	3	220	END	94.	95.	-412.	14430.	-13767.	0.	.0145	.0149	-.0068	-.0000	.0000	-.0001
23	1	220	BEG	10.	11.	364.	-14430.	13767.	0.	.0145	.0149	-.0068	-.0000	.0000	-.0001
23	1	225	END	-10.	-11.	-364.	14255.	-13611.	-0.	.0147	.0151	-.0068	-.0000	.0000	-.0001
23	2	230	END	-10.	-11.	-364.	13857.	-13255.	-0.	.0144	.0148	-.0068	.0000	-.0000	-.0001

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-10.	-11.	-364.	13459.	-12899.	-0.	.0131	.0136	-.0068	.0000	-.0000	-.0001
23	4	240	END	-10.	-11.	-364.	13061.	-12543.	-0.	.0109	.0113	-.0068	.0001	-.0001	-.0001
24	1	240	SEG	112.	117.	300.	-13061.	12543.	0.	.0109	.0113	-.0068	.0001	-.0001	-.0001
24	1	245	END	-112.	-117.	-300.	8707.	-8362.	0.	.0078	.0081	-.0068	.0001	-.0001	-.0001
24	2	250	END	-112.	-117.	-300.	4354.	-4181.	0.	.0040	.0042	-.0069	.0001	-.0001	-.0001
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	-.0000	-.0069	.0001	-.0001	-.0001
24	3	255	END	-112.	-117.	-300.	-0.	0.	0.	0.0000	-.0006	-.0069	.0001	-.0001	-.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 3 FREQUENCY 7.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-3297.	-132.	-2025.	151031.	-119039.	-189561.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	111.	69.	90.	0.	-0.	-0.	.0092	.0057	.0074	-.0002	.0001	.0002
3	20	213.	91.	199.	0.	0.	-0.	.0133	.0057	.0124	-.0002	.0001	.0002
4	30	495.	106.	526.	0.	-0.	-0.	.0266	.0057	.0282	-.0002	.0001	.0002
5	40	686.	105.	744.	0.	0.	-0.	.0366	.0057	.0400	-.0001	.0002	.0001
6	50	1159.	159.	1263.	0.	-0.	-0.	.0411	.0056	.0448	-.0000	.0002	.0000
7	57	2978.	531.	3296.	-0.	0.	0.	.0315	.0056	.0349	.0001	.0002	-.0001
8	70	222.	135.	307.	-0.	-0.	0.	.0092	.0056	.0127	.0002	.0002	-.0002
9	85	-3.	23.	46.	-0.	-0.	0.	-.0000	.0003	.0005	.0000	.0000	-.0000
10	87	-3226.	-1319.	-3935.	-27237.	-278813.	70309.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	367.	-25.	457.	-0.	-0.	-0.	.0133	-.0009	.0166	-.0002	-.0000	-.0000
20	175	90.	26.	63.	-0.	0.	0.	.0134	.0038	.0094	-.0002	-.0001	-.0001
21	190	61.	79.	-8.	0.	0.	0.	.0124	.0160	-.0016	-.0001	-.0000	-.0001
22	205	46.	56.	-11.	-0.	-0.	0.	.0133	.0170	-.0032	-.0001	.0001	-.0001
23	220	103.	106.	-48.	0.	-0.	0.	.0145	.0149	-.0068	-.0000	.0000	-.0001
24	240	102.	106.	-64.	-0.	0.	-0.	.0109	.0113	-.0068	.0001	-.0001	-.0001
25	255	-112.	-117.	-300.	-0.	0.	0.	0.0000	-.0000	-.0069	.0001	-.0001	-.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

25 255 -112. -117. -300. -0. 0. 0. 0.0000 -.0000 -.0069 .0001 -.0001 -.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 3 FREQUENCY 7.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 4 FREQUENCY 8.61

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-3639.	-6254.	2803.	32035.	-93106.	-280617.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	3639.	6254.	-2803.	-28363.	90620.	279836.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	3639.	6254.	-2803.	120773.	-95787.	57570.	.0081	.0002	-.0038	.0002	.0001	.0002
2	1	15	BEG	-3514.	-6250.	2745.	-120773.	95787.	-57570.	.0081	.0002	-.0038	.0002	.0001	.0002
2	1	20	END	3514.	6250.	-2745.	63130.	-95787.	-16228.	.0118	.0003	-.0074	.0002	.0001	.0002
3	1	20	BEG	-2469.	-6071.	2427.	-71863.	74654.	-41410.	.0118	.0003	-.0074	.0002	.0001	.0002
3	1	25	END	2469.	6071.	-2427.	-14487.	-74654.	-44302.	.0180	.0004	-.0137	.0002	.0001	.0002
3	2	30	END	2469.	6071.	-2427.	-100837.	-74654.	-130015.	.0239	.0004	-.0199	.0002	.0001	.0002
4	1	30	BEG	-1839.	-6060.	1951.	100837.	74654.	130015.	.0239	.0004	-.0199	.0002	.0001	.0002
4	1	35	END	1839.	6060.	-1951.	-170263.	-74654.	-195447.	.0291	.0005	-.0256	.0001	.0000	.0001
4	2	40	END	1839.	6060.	-1951.	-239639.	-74654.	-260879.	.0331	.0006	-.0303	.0001	.0000	.0001
5	1	40	BEG	-1049.	-6045.	1229.	239689.	74654.	260879.	.0331	.0006	-.0303	.0001	.0000	.0001
5	1	45	END	1049.	6045.	-1229.	-283413.	-74654.	-298192.	.0357	.0007	-.0336	.0001	.0000	.0000
5	2	50	END	1049.	6045.	-1229.	-327138.	-74654.	-335505.	.0365	.0008	-.0352	.0000	-.0000	-.0000
6	1	50	BEG	269.	-6016.	-44.	327138.	74654.	335505.	.0365	.0008	-.0352	.0000	-.0000	-.0000
6	1	55	END	-269.	6016.	44.	-324525.	-74654.	-319341.	.0335	.0009	-.0337	-.0001	-.0000	-.0001
6	2	57	END	-269.	6016.	44.	-321695.	-74654.	-301832.	.0260	.0010	-.0278	-.0001	-.0000	-.0001
7	1	57	BEG	3418.	-5892.	-3408.	321695.	74654.	301832.	.0260	.0010	-.0278	-.0001	-.0000	-.0001
7	1	60	END	-3418.	5892.	3408.	-186660.	-74654.	-166388.	.0195	.0011	-.0221	-.0002	-.0001	-.0002
7	2	65	END	-3418.	5892.	3408.	-51626.	-74654.	-30944.	.0117	.0012	-.0150	-.0002	-.0001	-.0002
7	3	70	END	-3418.	5892.	3408.	63043.	-74654.	84073.	.0050	.0013	-.0087	-.0002	-.0001	-.0002
8	1	70	BEG	3572.	-5852.	-3678.	-63043.	74654.	-84073.	.0050	.0013	-.0087	-.0002	-.0001	-.0002
8	1	75	END	-3572.	5852.	3678.	65250.	-74654.	86216.	.0048	.0013	-.0086	-.0002	-.0001	-.0002
8	2	80	END	-3572.	5852.	3678.	201933.	72268.	-14805.	.0004	-.0005	-.0004	-.0000	-.0000	.0000

8	2	80	END	-3572.	5652.	3678.	201550.	74220.	-18284.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-3572.	5652.	3678.	201550.	74220.	-18284.	.0004	-.0004	-.0003	-.0000	-.0000	.0000
9	1	85	BEG	3616.	-5901.	-3716.	-201550.	-74220.	18284.	.0004	-.0004	-.0003	-.0000	-.0000	.0000
9	1	86	END	-3616.	5901.	3716.	183422.	163925.	-178391.	.0004	-.0000	.0000	-.0000	-.0000	.0000
9	2	87	END	-3616.	5901.	3716.	-9778.	163925.	-366427.	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

SC	NE	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-863.	-174.	167.	8732.	21133.	57638.	.0118	.0003	-.0074	.0002	.0001	.0002
18	1	160	END	863.	174.	-167.	-8732.	-15978.	-52250.	.0118	-.0035	-.0051	.0002	.0001	.0001
18	2	165	END	863.	174.	-167.	-8732.	-10824.	-46861.	.0118	-.0046	-.0036	.0001	.0000	-.0000
18	3	167	END	863.	174.	-167.	-8732.	-4079.	-39809.	.0118	-.0038	-.0021	.0001	.0000	-.0000
19	1	167	BEG	-447.	-308.	92.	8732.	4079.	39809.	.0118	-.0038	-.0021	.0001	.0000	-.0000
19	1	170	END	447.	308.	-92.	-8732.	-378.	-27455.	.0119	-.0008	-.0009	.0001	.0000	-.0001
19	2	175	END	447.	308.	-92.	-8732.	3323.	-15100.	.0119	.0045	.0003	.0001	.0000	-.0002
20	1	175	BEG	-344.	-269.	95.	8732.	-3323.	15100.	.0119	.0045	.0003	.0001	.0000	-.0002
20	1	180	END	344.	269.	-95.	-8732.	7117.	-4298.	.0119	.0111	.0017	.0001	.0000	-.0002
20	2	185	END	344.	269.	-95.	-8732.	8923.	847.	.0119	.0144	.0026	.0000	.0001	-.0002
20	3	190	END	344.	269.	-95.	-2949.	3697.	7018.	.0141	.0175	.0043	.0000	.0001	-.0002
21	1	190	BEG	-255.	-159.	121.	2949.	-3697.	-7018.	.0141	.0175	.0043	.0000	.0001	-.0002
21	1	195	END	255.	159.	-121.	-2891.	3608.	7025.	.0142	.0175	.0043	.0000	.0001	-.0002
21	2	200	END	255.	159.	-121.	-2831.	3518.	7031.	.0142	.0175	.0043	.0000	.0001	-.0002
21	3	205	END	255.	159.	-121.	683.	-4380.	4073.	.0169	.0142	.0019	.0000	.0001	-.0001
22	1	205	BEG	-181.	-97.	130.	-683.	4380.	-4073.	.0169	.0142	.0019	.0000	.0001	-.0001
22	1	210	END	181.	97.	-130.	683.	-5744.	3055.	.0169	.0128	.0009	.0000	.0001	-.0001
22	2	215	END	181.	97.	-130.	683.	-7108.	2036.	.0169	.0114	-.0002	.0000	.0001	-.0001
22	3	220	END	181.	97.	-130.	2719.	-13646.	0.	.0179	.0085	-.0017	.0000	.0000	-.0001
23	1	220	BEG	-18.	-19.	115.	-2719.	13646.	0.	.0179	.0085	-.0017	.0000	.0000	-.0001
23	1	225	END	18.	19.	-115.	3038.	-13944.	-0.	.0180	.0083	-.0017	.0000	.0000	-.0001
23	2	230	END	18.	19.	-115.	3765.	-14626.	-0.	.0176	.0077	-.0017	.0000	-.0000	-.0001

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	18.	19.	-115.	4493.	-15307.	-0.	.0160	.0067	-.0017	.0000	-.0001	-.0001
23	4	240	END	18.	19.	-115.	5220.	-15989.	-0.	.0134	.0055	-.0017	.0000	-.0001	-.0001
24	1	240	BEG	143.	47.	95.	-5220.	15989.	0.	.0134	.0055	-.0017	.0000	-.0001	-.0001
24	1	245	END	-143.	-47.	-95.	3480.	-10659.	0.	.0096	.0039	-.0017	.0000	-.0001	-.0001
24	2	250	END	-143.	-47.	-95.	1740.	-5330.	0.	.0050	.0020	-.0017	.0001	-.0001	-.0001
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	-.0017	.0001	-.0001	-.0001
24	3	255	END	-143.	-47.	-95.	-0.	0.	0.	-.0000	-.0006	-.0017	.0001	-.0001	-.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 4 FREQUENCY 6.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-3639.	-6254.	2803.	32035.	-93106.	-280617.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	125.	3.	-56.	-0.	-0.	-0.	.0081	.0002	-.0038	.0002	.0001	.0002
3	20	242.	5.	-151.	-0.	0.	-0.	.0118	.0003	-.0074	.0002	.0001	.0002
4	30	570.	11.	-476.	-0.	0.	-0.	.0239	.0004	-.0199	.0002	.0001	.0002
5	40	790.	15.	-722.	-0.	-0.	-0.	.0331	.0006	-.0303	.0001	.0000	.0001
6	50	1318.	29.	-1272.	-0.	0.	0.	.0365	.0008	-.0352	.0000	-.0000	-.0000
7	57	3149.	128.	-3364.	0.	-0.	0.	.0260	.0010	-.0278	-.0001	-.0000	-.0001
8	70	154.	40.	-270.	0.	0.	0.	.0050	.0013	-.0087	-.0002	-.0001	-.0002
9	85	84.	-49.	-38.	0.	0.	-0.	.0004	-.0004	-.0003	-.0000	-.0000	.0000
10	87	-3616.	5901.	3716.	-9778.	163925.	-366427.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	417.	-134.	-75.	0.	-0.	-0.	.0118	-.0038	-.0021	.0001	.0000	-.0000
20	175	102.	39.	2.	0.	-0.	0.	.0119	.0045	.0003	.0001	.0000	-.0002
21	190	89.	110.	27.	0.	0.	0.	.0141	.0175	.0043	.0000	.0001	-.0002
22	205	74.	62.	8.	-0.	-0.	0.	.0169	.0142	.0019	.0000	.0001	-.0001
23	220	163.	77.	-15.	-0.	-0.	0.	.0179	.0085	-.0017	.0000	.0000	-.0001
24	240	161.	66.	-20.	-0.	0.	-0.	.0134	.0055	-.0017	.0000	-.0001	-.0001
25	255	-143.	-47.	-95.	-0.	0.	0.	-.0000	-.0000	-.0017	.0001	-.0001	-.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

25 255 -.03. -.47. -.95. -0. 0. 0. -.0000 -.0000 -.0017 .0001 -.0001 -.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 4 FREQUENCY 8.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 5 FREQUENCY 11.59

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-137.	135.	-43.	-2857.	-8627.	1138.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	137.	-135.	43.	2777.	8552.	-1121.	.0000	-.0000	-.0000	.0000	.0000	-.0000
1	2	15	END	137.	-135.	43.	-1249.	2941.	-6002.	.0002	-.0000	-.0001	.0000	.0000	-.0000
2	1	15	BEG	-131.	134.	-45.	1249.	-2941.	6002.	.0002	-.0000	-.0001	.0000	.0000	-.0000
2	1	20	END	131.	-134.	45.	-311.	2941.	-8751.	.0002	-.0000	-.0001	.0000	.0000	-.0000
3	1	20	BEG	94.	127.	1.	549.	1918.	9292.	.0002	-.0000	-.0001	.0000	.0000	-.0000
3	1	25	END	-94.	-127.	-1.	-589.	-1918.	-5961.	.0000	-.0000	-.0001	-.0000	.0000	-.0000
3	2	30	END	-94.	-127.	-1.	-630.	-1918.	-2630.	-.0001	-.0000	-.0001	-.0000	.0000	-.0000
4	1	30	BEG	89.	125.	-2.	630.	1918.	2630.	-.0001	-.0000	-.0001	-.0000	.0000	-.0000
4	1	35	END	-89.	-125.	2.	-557.	-1918.	546.	-.0003	-.0001	-.0001	-.0000	.0000	-.0000
4	2	40	END	-89.	-125.	2.	-485.	-1918.	3723.	-.0004	-.0001	-.0001	-.0000	.0000	-.0000
5	1	40	BEG	71.	123.	-4.	485.	1918.	-3723.	-.0004	-.0001	-.0001	-.0000	.0000	-.0000
5	1	45	END	-71.	-123.	4.	-325.	-1918.	6245.	-.0006	-.0001	-.0000	-.0000	.0000	-.0000
5	2	50	END	-71.	-123.	4.	-166.	-1918.	8768.	-.0007	-.0001	-.0000	-.0000	.0000	-.0000
6	1	50	BEG	27.	119.	-6.	166.	1918.	-8768.	-.0007	-.0001	-.0000	-.0000	.0000	-.0000
6	1	55	END	-27.	-119.	6.	215.	-1918.	10401.	-.0007	-.0001	-.0000	-.0000	.0000	.0000
6	2	57	END	-27.	-119.	6.	627.	-1918.	12171.	-.0006	-.0001	.0000	-.0000	.0000	.0000
7	1	57	BEG	-114.	105.	-1.	-627.	1918.	-12171.	-.0006	-.0001	.0000	-.0000	.0000	.0000
7	1	60	END	114.	-105.	1.	670.	-1918.	7658.	-.0005	-.0001	.0000	-.0000	.0000	.0000
7	2	65	END	114.	-105.	1.	713.	-1918.	3145.	-.0003	-.0001	.0000	-.0000	.0000	.0000
7	3	70	END	114.	-105.	1.	749.	-1918.	-688.	-.0002	-.0001	.0000	-.0000	.0000	.0000
8	1	70	BEG	-123.	102.	1.	-749.	1918.	688.	-.0002	-.0001	.0000	-.0000	.0000	.0000
8	1	75	END	123.	-102.	-1.	748.	-1918.	-762.	-.0002	-.0001	.0000	-.0000	.0000	.0000
8	2	80	END	123.	-102.	-1.	1182.	-1379.	-1754.	-.0000	.0000	.0000	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

8	2	80	END	123.	-102.	-1.	1164.	-1379.	-1754.	-.0000	.0000	.0000	-.0000	.0000	-.0000		

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	123.	-102.	-1.	1169.	-1371.	-1694.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	85	BEG	-125.	103.	2.	-1189.	1371.	1694.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	86	END	125.	-103.	-2.	1505.	-1051.	1103.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	2	87	END	125.	-103.	-2.	1626.	-1051.	7592.	.0000	.0000	-.0000	-.0000	-.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-218.	5.	-49.	-238.	-4659.	-541.	.0002	-.0000	-.0001	.0000	.0000	-.0000
18	1	160	END	218.	-5.	49.	238.	3355.	388.	.0002	.0000	.0002	.0000	.0000	-.0000
18	2	165	END	218.	-5.	49.	238.	1852.	235.	.0002	.0001	.0007	.0000	.0000	-.0000
18	3	167	END	218.	-5.	49.	238.	-116.	35.	.0002	.0001	.0014	.0000	.0000	-.0000
19	1	167	BEG	-207.	11.	43.	-238.	116.	-35.	.0002	.0001	.0014	.0000	.0000	-.0000
19	1	170	END	207.	-11.	-43.	238.	1593.	-410.	.0002	.0001	.0022	.0000	.0000	-.0000
19	2	175	END	207.	-11.	-43.	236.	3302.	-855.	.0002	.0002	.0030	.0000	.0000	-.0000
20	1	175	BEG	-204.	14.	90.	-238.	-3302.	855.	.0002	.0002	.0030	.0000	.0000	-.0000
20	1	180	END	204.	-14.	-90.	238.	6898.	-1435.	.0002	.0004	.0042	.0000	.0000	-.0000
20	2	185	END	204.	-14.	-90.	238.	8612.	-1711.	.0002	.0005	.0049	.0000	.0000	-.0000
20	3	190	END	204.	-14.	-90.	69.	6231.	-1711.	.0021	.0007	.0064	.0000	.0001	-.0000
21	1	190	BEG	-180.	22.	162.	-69.	-6231.	1711.	.0021	.0007	.0064	.0000	.0001	-.0000
21	1	195	END	180.	-22.	-162.	66.	6168.	-1706.	.0021	.0007	.0064	.0000	.0001	-.0000
21	2	200	END	180.	-22.	-162.	62.	6105.	-1702.	.0022	.0007	.0064	.0000	.0001	-.0000
21	3	205	END	180.	-22.	-162.	-156.	-1066.	-970.	.0048	.0001	.0036	.0000	.0001	-.0000
22	1	205	BEG	-142.	23.	191.	156.	1066.	970.	.0048	.0001	.0036	.0000	.0001	-.0000
22	1	210	END	142.	-23.	-191.	-156.	-3073.	-728.	.0048	-.0001	.0023	.0000	.0001	-.0000
22	2	215	END	142.	-23.	-191.	-156.	-5080.	-485.	.0048	-.0004	.0009	.0000	.0001	-.0000
22	3	220	END	142.	-23.	-191.	-641.	-12070.	0.	.0066	-.0010	-.0013	.0000	.0001	-.0000
23	1	220	BEG	-32.	6.	169.	641.	12070.	0.	.0066	-.0010	-.0013	.0000	.0001	-.0000
23	1	225	END	32.	-6.	-169.	-746.	-12592.	-0.	.0075	-.0010	-.0013	.0000	.0000	-.0000
23	2	230	END	32.	-6.	-169.	-985.	-13784.	-0.	.0087	-.0011	-.0013	-.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	32.	-6.	-169.	-1224.	-14976.	-0.	.0090	-.0010	-.0014	-.0000	-.0000	-.0000
23	4	240	END	32.	-6.	-169.	-1463.	-16168.	-0.	.0081	-.0009	-.0014	-.0000	-.0000	-.0000
24	1	240	BEG	144.	-13.	139.	1463.	16168.	0.	.0081	-.0009	-.0014	-.0000	-.0000	-.0000
24	1	245	END	-144.	13.	-139.	-976.	-10778.	0.	.0061	-.0007	-.0014	-.0000	-.0001	-.0000
24	2	250	END	-144.	13.	-139.	-488.	-5389.	0.	.0032	-.0003	-.0014	-.0000	-.0001	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	.0000	-.0014	-.0000	-.0001	-.0000
24	3	255	END	-144.	13.	-139.	0.	0.	0.	-.0000	.0006	-.0014	-.0000	-.0001	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 5 FREQUENCY 11.59

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-137.	135.	-43.	-2857.	-8627.	1138.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	6.	-1.	-2.	-0.	-0.	-0.	.0002	-.0000	-.0001	.0000	.0000	-.0000
3	20	6.	-2.	-3.	0.	-0.	0.	.0002	-.0000	-.0001	.0000	.0000	-.0000
4	30	-4.	-2.	-3.	0.	-0.	0.	-.0001	-.0000	-.0001	-.0000	.0000	-.0000
5	40	-18.	-2.	-2.	0.	0.	0.	-.0004	-.0001	-.0001	-.0000	.0000	-.0000
6	50	-44.	-4.	-2.	0.	-0.	0.	-.0007	-.0001	-.0000	-.0000	.0000	-.0000
7	57	-181.	-13.	5.	0.	-0.	-0.	-.0006	-.0001	.0000	-.0000	.0000	.0000
8	70	-9.	-4.	3.	-0.	-0.	-0.	-.0002	-.0001	.0000	-.0000	.0000	.0000
9	85	-2.	1.	1.	0.	0.	0.	-.0000	.0000	.0000	-.0000	.0000	-.0000
10	87	125.	-103.	-2.	1626.	-1051.	7592.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	12.	6.	91.	0.	-0.	0.	.0002	.0001	.0014	.0000	.0000	-.0000
20	175	3.	3.	47.	0.	-0.	0.	.0002	.0002	.0030	.0000	.0000	-.0000
21	190	24.	8.	72.	-0.	-0.	0.	.0021	.0007	.0064	.0000	.0001	-.0000
22	205	38.	1.	29.	-0.	-0.	0.	.0048	.0001	.0036	.0000	.0001	-.0000
23	220	110.	-17.	-22.	-0.	-0.	0.	.0066	-.0010	-.0013	.0000	.0001	-.0000
24	240	176.	-19.	-30.	0.	0.	-0.	.0081	-.0009	-.0014	-.0000	-.0000	-.0000
25	255	-144.	13.	-139.	0.	0.	0.	-.0000	.0000	-.0014	-.0000	-.0001	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

255 [illegible] 13. [illegible] 0. 0. 0. -.0000 .0000 -.0010 -.0000 -.0001 -.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 5 FREQUENCY 11.59

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 6 FREQUENCY 13.07

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-5.	-22.	-1.	598.	-51.	-179.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	5.	22.	1.	-585.	48.	177.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	5.	22.	1.	411.	-172.	-260.	-.0000	.0000	.0000	.0000	-.0000	-.0000
2	1	15	BEG	-5.	-22.	-0.	-411.	172.	260.	-.0000	.0000	.0000	.0000	-.0000	-.0000
2	1	20	END	5.	22.	0.	422.	-172.	-368.	-.0000	.0000	.0000	.0000	-.0000	-.0000
3	1	20	BEG	-9.	-5.	-3.	505.	-89.	-1328.	-.0000	.0000	.0000	.0000	-.0000	-.0000
3	1	25	END	9.	5.	3.	-391.	89.	1018.	-.0000	.0000	.0000	.0000	-.0000	.0000
3	2	30	END	9.	5.	3.	-278.	89.	708.	-.0000	.0000	.0000	-.0000	-.0000	.0000
4	1	30	BEG	-9.	-4.	-3.	278.	-89.	-708.	-.0000	.0000	.0000	-.0000	-.0000	.0000
4	1	35	END	9.	4.	3.	-170.	89.	396.	.0000	.0000	.0000	-.0000	-.0000	.0000
4	2	40	END	9.	4.	3.	-63.	89.	84.	.0000	.0000	.0000	-.0000	-.0000	.0000
5	1	40	BEG	-8.	-4.	-3.	63.	-89.	-84.	.0000	.0000	.0000	-.0000	-.0000	.0000
5	1	45	END	8.	4.	3.	30.	89.	-195.	.0000	.0000	.0000	-.0000	-.0000	.0000
5	2	50	END	8.	4.	3.	123.	89.	-473.	.0000	.0000	.0000	-.0000	.0000	.0000
6	1	50	BEG	-5.	-3.	-2.	-123.	-89.	473.	.0000	.0000	.0000	-.0000	.0000	.0000
6	1	55	END	5.	3.	2.	216.	89.	-755.	.0000	.0000	.0000	-.0000	.0000	.0000
6	2	57	END	5.	3.	2.	316.	89.	-1061.	.0000	.0000	.0000	.0000	.0000	-.0000
7	1	57	BEG	8.	-0.	3.	-316.	-89.	1061.	.0000	.0000	.0000	.0000	.0000	-.0000
7	1	60	END	-8.	0.	-3.	199.	89.	-727.	.0000	.0000	.0000	.0000	.0000	-.0000
7	2	65	END	-8.	0.	-3.	93.	89.	-393.	.0000	.0000	.0000	.0000	.0000	-.0000
7	3	70	END	-8.	0.	-3.	-16.	89.	-110.	.0000	.0000	.0000	.0000	.0000	-.0000
8	1	70	BEG	10.	1.	3.	16.	-89.	110.	.0000	.0000	.0000	.0000	.0000	-.0000
8	1	75	END	-10.	-1.	-3.	-18.	89.	-104.	.0000	.0000	.0000	.0000	.0000	-.0000
8	2	80	END	-10.	-1.	-3.	-172.	-114.	355.	.0000	.0000	.0000	.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

8	2	80	END	-10.	-1.	-3.	-172.	-114.	355.	.0000	.0000	.0000	.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-10.	-1.	-3.	-172.	-117.	355.	.0000	.0000	.0000	.0000	.0000	-.0000
9	1	85	BEG	10.	1.	4.	172.	117.	-355.	.0000	.0000	.0000	.0000	.0000	-.0000
9	1	86	END	-10.	-1.	-4.	-170.	-244.	375.	.0000	.0000	.0000	.0000	.0000	-.0000
9	2	87	END	-10.	-1.	-4.	18.	-244.	-126.	0.0000	.0000	.0000	.0000	.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	3.	-16.	3.	-926.	261.	1696.	-.0000	.0000	.0000	.0000	-.0000	-.0000
18	1	160	END	-3.	16.	-3.	926.	-169.	-1198.	-.0000	.0001	-.0000	.0000	-.0000	-.0000
18	2	165	END	-3.	16.	-3.	926.	-78.	-701.	-.0000	.0002	-.0000	.0000	-.0000	-.0000
18	3	167	END	-3.	16.	-3.	926.	41.	-49.	-.0000	.0003	-.0001	.0000	-.0000	-.0000
19	1	167	BEG	3.	11.	-1.	-926.	-41.	49.	-.0000	.0003	-.0001	.0000	-.0000	-.0000
19	1	170	END	-3.	-11.	1.	926.	-4.	-504.	-.0000	.0005	-.0001	.0000	-.0000	-.0000
19	2	175	END	-3.	-11.	1.	926.	-49.	-958.	-.0000	.0007	-.0001	.0000	-.0000	-.0000
20	1	175	BEG	3.	26.	-3.	-926.	49.	958.	-.0000	.0007	-.0001	.0000	-.0000	-.0000
20	1	180	END	-3.	-26.	3.	926.	-175.	-2003.	-.0000	.0011	-.0001	.0000	-.0000	-.0000
20	2	185	END	-3.	-26.	3.	926.	-235.	-2501.	-.0000	.0013	-.0002	.0000	-.0000	-.0000
20	3	190	END	-3.	-26.	3.	376.	-237.	-3053.	-.0000	.0014	-.0002	.0000	-.0000	-.0000
21	1	190	BEG	3.	46.	-6.	-376.	237.	3053.	-.0000	.0014	-.0002	.0000	-.0000	-.0000
21	1	195	END	-3.	-46.	6.	360.	-236.	-3054.	-.0000	.0014	-.0002	.0000	-.0000	-.0000
21	2	200	END	-3.	-46.	6.	343.	-235.	-3054.	-.0000	.0014	-.0002	.0000	-.0000	-.0000
21	3	205	END	-3.	-46.	6.	-627.	-58.	-2093.	-.0000	.0004	-.0001	.0000	-.0000	-.0000
22	1	205	BEG	3.	50.	-6.	627.	58.	2093.	-.0000	.0004	-.0001	.0000	-.0000	-.0000
22	1	210	END	-3.	-50.	6.	-627.	10.	-1570.	-.0000	-.0000	-.0001	.0000	-.0000	-.0000
22	2	215	END	-3.	-50.	6.	-627.	78.	-1047.	-.0000	-.0004	-.0000	.0000	-.0000	-.0000
22	3	220	END	-3.	-50.	6.	-1674.	267.	0.	-.0001	-.0016	.0000	.0000	-.0000	-.0000
23	1	220	BEG	1.	17.	-6.	1674.	-267.	0.	-.0001	-.0016	.0000	.0000	-.0000	-.0000
23	1	225	END	-1.	-17.	6.	-1948.	281.	-0.	-.0001	-.0017	.0000	.0000	-.0000	-.0000
23	2	230	END	-1.	-17.	6.	-2574.	313.	-0.	-.0001	-.0028	.0000	.0000	-.0000	-.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-1.	-17.	6.	-3200.	345.	-0.	-.0002	-.0020	.0000	-.0000	-.0000	-.0000
23	4	240	END	-1.	-17.	6.	-3826.	377.	-0.	-.0002	-.0018	.0000	-.0000	.0000	-.0000
24	1	240	BEG	-3.	-34.	-5.	3826.	-377.	0.	-.0002	-.0018	.0000	-.0000	.0000	-.0000
24	1	245	END	3.	34.	5.	-2550.	251.	0.	-.0001	-.0014	.0000	-.0000	.0000	-.0000
24	2	250	END	3.	34.	5.	-1275.	126.	0.	-.0001	-.0007	.0000	-.0000	.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	0.0000	.0000	-.0000	.0000	-.0000
24	3	255	END	3.	34.	5.	0.	-0.	0.	.0000	0.0000	.0000	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 6 FREQUENCY 13.07

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-5.	-22.	-1.	598.	-51.	-179.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-0.	0.	0.	0.	-0.	0.	-.0000	.0000	.0000	.0000	-.0000	-.0000
3	20	-0.	0.	0.	-0.	0.	0.	-.0000	.0000	.0000	.0000	-.0000	-.0000
4	30	-0.	1.	0.	0.	0.	-0.	-.0000	.0000	.0000	-.0000	-.0000	.0000
5	40	1.	1.	0.	0.	0.	-0.	.0000	.0000	.0000	-.0000	-.0000	.0000
6	50	3.	1.	1.	0.	-0.	-0.	.0000	.0000	.0000	-.0000	.0000	.0000
7	57	13.	3.	4.	-0.	-0.	0.	.0000	.0000	.0000	.0000	.0000	-.0000
8	70	1.	1.	1.	-0.	-0.	0.	.0000	.0000	.0000	.0000	.0000	-.0000
9	65	0.	0.	0.	-0.	-0.	0.	.0000	.0000	.0000	.0000	.0000	-.0000
10	87	-10.	-1.	-4.	18.	-244.	-126.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-0.	27.	-4.	0.	0.	0.	-.0000	.0003	-.0001	.0000	-.0000	-.0000
20	175	-0.	15.	-2.	-0.	0.	0.	-.0000	.0007	-.0001	.0000	-.0000	-.0000
21	190	-0.	20.	-2.	0.	-0.	0.	-.0000	.0014	-.0002	.0000	-.0000	-.0000
22	205	-0.	8.	-1.	-0.	0.	0.	-.0000	.0004	-.0001	.0000	-.0000	-.0000
23	220	-2.	-33.	1.	-0.	0.	0.	-.0001	-.0016	.0000	.0000	-.0000	-.0000
24	240	-4.	-51.	1.	-0.	0.	-0.	-.0002	-.0018	.0000	-.0000	.0000	-.0000
25	255	3.	34.	5.	0.	-0.	0.	.0000	0.0000	.0000	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

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ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 6 FREQUENCY 13.07

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 7 FREQUENCY 13.84

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2	15	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	15	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	20	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	25	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2	30	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	30	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	35	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2	40	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	40	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	45	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2	50	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	50	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	55	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	2	57	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	57	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	60	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	2	65	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	3	70	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	70	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	75	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	85	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	86	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	2	87	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	87	BEG	-1075.	-324.	-1546.	-68983.	131636.	28607.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	1075.	324.	1546.	70821.	-89065.	-38806.	-.0000	-.0000	.0001	.0000	-.0000	-.0000
10	2	90	END	1075.	324.	1546.	61454.	-49929.	-40493.	.0001	.0001	.0001	.0000	-.0000	-.0000
11	1	90	BEG	-1046.	-306.	-1524.	-61454.	49929.	40493.	.0001	.0001	.0001	.0000	-.0000	-.0000
11	1	95	END	1046.	306.	1524.	61276.	-49161.	-40525.	.0001	.0001	.0001	.0000	-.0000	-.0000
11	2	100	END	1046.	306.	1524.	-20857.	9345.	4119.	.0025	.0017	.0028	.0001	-.0000	-.0000
12	1	100	BEG	-766.	-117.	-1209.	20857.	-9345.	-4119.	.0025	.0017	.0028	.0001	-.0000	-.0000
12	1	105	END	766.	117.	1209.	-38995.	9345.	15612.	.0029	.0017	.0037	.0001	-.0000	-.0000
12	2	107	END	766.	117.	1209.	-105496.	9345.	57750.	.0042	.0017	.0065	.0000	-.0000	-.0000
13	1	107	BEG	-140.	136.	-236.	105496.	-9345.	-57750.	.0042	.0017	.0065	.0000	-.0000	-.0000
13	1	110	END	140.	-136.	236.	-113857.	9345.	62697.	.0048	.0017	.0078	.0000	-.0000	-.0000
13	2	115	END	140.	-136.	236.	-122218.	9345.	67645.	.0050	.0017	.0085	.0000	-.0000	-.0000
14	1	115	BEG	165.	240.	287.	122218.	-9345.	-67645.	.0050	.0017	.0085	.0000	-.0000	-.0000
14	1	120	END	-165.	-240.	-287.	-112038.	9345.	61808.	.0048	.0017	.0085	-.0000	-.0000	.0000
14	2	125	END	-165.	-240.	-287.	-101858.	9345.	55971.	.0042	.0017	.0078	-.0000	-.0000	.0000
15	1	125	BEG	469.	362.	851.	101858.	-9345.	-55971.	.0042	.0017	.0078	-.0000	-.0000	.0000
15	1	130	END	-469.	-362.	-851.	-61011.	9345.	33462.	.0030	.0017	.0060	-.0000	-.0000	.0000
15	2	135	END	-469.	-362.	-851.	-20165.	9345.	10952.	.0014	.0017	.0035	-.0001	-.0000	.0000
16	1	135	BEG	570.	484.	1108.	20165.	-9345.	-10952.	.0014	.0017	.0035	-.0001	-.0000	.0000
16	1	140	END	-570.	-484.	-1108.	-5940.	9345.	3636.	.0009	.0017	.0028	-.0001	-.0000	.0000
16	2	145	END	-570.	-484.	-1108.	52121.	28484.	-34587.	-.0000	.0003	.0002	-.0000	-.0000	.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	-570.	-484.	-1108.	52474.	28837.	-34923.	-.0000	.0003	.0002	-.0000	-.0000	.0000
17	1	150	BEG	568.	497.	1117.	-52474.	-28837.	34923.	-.0000	.0003	.0002	-.0000	-.0000	.0000
17	1	155	END	-568.	.497.	-1117.	72289.	48623.	-53796.	.0000	0.0000	-.0000	.0000	-.0000	-.0000
18	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	160	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	2	165	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	3	167	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	167	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	170	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	2	175	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	175	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	180	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	2	185	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	3	190	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	190	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	195	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	2	200	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	3	205	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	205	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	210	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	2	215	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	3	220	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	220	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	225	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	2	230	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
23	4	240	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	240	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	245	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	2	250	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 7 FREQUENCY 13.84

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	20	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	30	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	40	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	50	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	57	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	70	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	85	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	87	-1075.	-324.	-1546.	-68983.	131636.	28607.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	29.	18.	21.	0.	0.	-0.	.0001	.0001	.0001	.0000	-.0000	-.0000
12	100	280.	189.	315.	-0.	0.	0.	.0025	.0017	.0028	.0001	-.0000	-.0000
13	107	627.	253.	973.	-0.	-0.	0.	.0042	.0017	.0065	.0000	-.0000	-.0000
14	115	304.	104.	523.	-0.	0.	0.	.0050	.0017	.0085	.0000	-.0000	-.0000
15	125	304.	122.	564.	0.	-0.	-0.	.0042	.0017	.0078	-.0000	-.0000	.0000
16	135	101.	122.	257.	0.	-0.	0.	.0014	.0017	.0035	-.0001	-.0000	.0000
17	150	-2.	13.	9.	0.	0.	-0.	-.0000	.0003	.0002	-.0000	-.0000	.0000
18	155	-568.	-497.	-1117.	72289.	48623.	-53796.	.0000	0.0000	-.0000	.0000	-.0000	-.0000
19	167	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	175	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	190	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	205	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	220	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	240	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	255	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

25 255 0. 0. 0. 0. 0. 0. 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 7 FREQUENCY 13.84

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 8 FREQUENCY 15.60

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2	15	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	15	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	20	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	25	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2	30	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	30	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	35	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2	40	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	40	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	45	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2	50	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	50	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	55	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	2	57	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	57	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	60	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	2	65	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	3	70	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	70	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	75	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	85	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	86	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	2	87	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	87	BEG	-2612.	-1769.	1343.	-50084.	71484.	31632.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	2612.	1769.	-1343.	60126.	-128600.	-87341.	-.0000	-.0000	.0000	.0000	-.0000	-.0000
10	2	90	END	2612.	1769.	-1343.	8961.	-60067.	-96555.	.0001	.0001	.0000	.0000	-.0000	-.0000
11	1	90	BEG	-2569.	-1751.	1357.	-8961.	60067.	96555.	.0001	.0001	.0000	.0000	-.0000	-.0000
11	1	95	END	2569.	1751.	-1357.	7942.	-58715.	-96738.	.0002	.0001	.0001	.0000	-.0000	-.0000
11	2	100	END	2569.	1751.	-1357.	-8497.	44221.	4893.	.0043	-.0007	-.0011	-.0000	-.0000	-.0001
12	1	100	BEG	-1962.	-1851.	1208.	8497.	-44221.	-4893.	.0043	-.0007	-.0011	-.0000	-.0000	-.0001
12	1	105	END	1962.	1851.	-1208.	9621.	44221.	34316.	.0053	-.0007	-.0018	-.0000	-.0000	-.0001
12	2	107	END	1962.	1851.	-1208.	76050.	44221.	142192.	.0087	-.0007	-.0044	-.0000	-.0000	-.0001
13	1	107	BEG	-309.	-1978.	365.	-76050.	-44221.	-142192.	.0087	-.0007	-.0044	-.0000	-.0000	-.0001
13	1	110	END	309.	1978.	-365.	89005.	44221.	153156.	.0102	-.0006	-.0058	-.0000	-.0000	-.0000
13	2	115	END	309.	1978.	-365.	101959.	44221.	164120.	.0108	-.0006	-.0066	-.0000	-.0000	-.0000
14	1	115	BEG	537.	-2027.	-150.	-101959.	-44221.	-164120.	.0108	-.0006	-.0066	-.0000	-.0000	-.0000
14	1	120	END	-537.	2027.	150.	96646.	44221.	145060.	.0105	-.0006	-.0068	.0000	-.0000	.0000
14	2	125	END	-537.	2027.	150.	91332.	44221.	126000.	.0094	-.0006	-.0065	.0000	.0000	.0000
15	1	125	BEG	1398.	-2078.	-748.	-91332.	-44221.	-126000.	.0094	-.0006	-.0065	.0000	.0000	.0000
15	1	130	END	-1398.	2078.	748.	55437.	44221.	58895.	.0067	-.0005	-.0052	.0000	.0000	.0001
15	2	135	END	-1398.	2078.	748.	19542.	44221.	-8211.	.0034	-.0005	-.0034	.0000	.0000	.0001
16	1	135	BEG	1712.	-2122.	-1065.	-19542.	-44221.	8211.	.0034	-.0005	-.0034	.0000	.0000	.0001
16	1	140	END	-1712.	2122.	1065.	5865.	44221.	-30196.	.0025	-.0005	-.0029	.0000	.0000	.0001
16	2	145	END	-1712.	2122.	1065.	-83180.	-19487.	-46380.	.0002	-.0003	-.0004	.0000	.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	-1712.	2122.	1065.	-84134.	-20664.	-45567.	.0002	-.0003	-.0004	.0000	.0000	.0000
17	1	150	BEG	1723.	-2140.	-1086.	84134.	20664.	45567.	.0002	-.0003	-.0004	.0000	.0000	.0000
17	1	155	END	-1723.	2140.	1086.	-137259.	-86383.	-345.	.0000	-.0006	.0000	-.0000	.0000	-.0000
18	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
18	1	160	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
18	2	165	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	3	167	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	167	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
19	1	170	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	2	175	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
20	1	175	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
20	1	180	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	2	185	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	3	190	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	190	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	195	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	2	200	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
21	3	205	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	205	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	210	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	2	215	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
22	3	220	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
23	1	220	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
23	1	225	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
23	2	230	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	4	240	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	240	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	245	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	2	250	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 8 FREQUENCY 15.60

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	20	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	30	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	40	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	50	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	57	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	70	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	85	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	87	-2612.	-1769.	1343.	-50084.	71484.	31632.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	43.	19.	14.	-0.	0.	0.	.0001	.0001	.0000	.0000	-.0000	-.0000
12	100	607.	-100.	-150.	0.	0.	0.	.0043	-.0007	-.0011	-.0000	-.0000	-.0001
13	107	1652.	-128.	-843.	0.	0.	0.	.0087	-.0007	-.0044	-.0000	-.0000	-.0001
14	115	847.	-48.	-515.	0.	-0.	0.	.0108	-.0006	-.0066	-.0000	-.0000	-.0000
15	125	861.	-51.	-598.	-0.	0.	-0.	.0094	-.0006	-.0065	.0000	.0000	.0000
16	135	314.	-44.	-317.	0.	0.	0.	.0034	-.0005	-.0034	.0000	.0000	.0001
17	150	11.	-18.	-21.	-0.	-0.	0.	.0002	-.0003	-.0004	.0000	.0000	.0000
18	155	-1723.	2140.	1086.	-137259.	-86383.	-345.	.0000	-.0000	.0000	-.0000	.0000	-.0000
19	167	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	175	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	190	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	205	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	220	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	240	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	255	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

25 255 0. 0. 0. 0. 0. 0. 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 8 FREQUENCY 15.60

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 9 FREQUENCY 15.93

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-93.	-14.	264.	-6171.	5296.	-7690.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	93.	14.	-264.	6180.	-5384.	7669.	.0000	.0000	-.0000	.0000	-.0000	.0000
1	2	15	END	93.	14.	-264.	-5072.	-11964.	3352.	-.0001	-.0001	-.0001	.0000	-.0000	.0000
2	1	15	BEG	-100.	-20.	256.	5072.	11964.	-3352.	-.0001	-.0001	-.0001	.0000	-.0000	.0000
2	1	20	END	100.	20.	-256.	-10453.	-11964.	1259.	-.0001	-.0001	-.0002	.0000	-.0000	.0000
3	1	20	BEG	-12.	-69.	-51.	10298.	-3656.	888.	-.0001	-.0001	-.0002	.0000	-.0000	.0000
3	1	25	END	12.	69.	51.	-8466.	3656.	-900.	-.0000	-.0001	-.0002	.0000	-.0000	.0000
3	2	30	END	12.	69.	51.	-6638.	3656.	-1312.	.0000	-.0001	-.0002	-.0000	-.0000	.0000
4	1	30	BEG	-10.	-79.	-67.	6638.	-3656.	1312.	.0000	-.0001	-.0002	-.0000	-.0000	.0000
4	1	35	END	10.	79.	67.	-4256.	3656.	-1678.	.0001	-.0001	-.0001	-.0000	-.0000	.0000
4	2	40	END	10.	79.	67.	-1874.	3656.	-2044.	.0001	-.0001	-.0000	-.0000	-.0000	.0000
5	1	40	BEG	-3.	-88.	-70.	1874.	-3656.	2044.	.0001	-.0001	-.0000	-.0000	-.0000	.0000
5	1	45	END	3.	88.	70.	613.	3656.	-2160.	.0001	-.0001	.0001	-.0000	-.0000	.0000
5	2	50	END	3.	88.	70.	3100.	3656.	-2275.	.0001	-.0001	.0002	-.0000	-.0000	-.0000
6	1	50	BEG	10.	-102.	-50.	-3100.	-3656.	2275.	.0001	-.0001	.0002	-.0000	-.0000	-.0000
6	1	55	END	-10.	102.	50.	6107.	3656.	-1651.	.0001	-.0001	.0003	-.0000	-.0000	-.0000
6	2	57	END	-10.	102.	50.	9363.	3656.	-976.	.0000	-.0001	.0003	-.0000	-.0000	-.0000
7	1	57	BEG	31.	-147.	83.	-9363.	-3656.	976.	.0000	-.0001	.0003	-.0000	-.0000	-.0000
7	1	60	END	-31.	147.	-83.	6071.	3656.	233.	.0000	-.0001	.0003	.0000	-.0000	-.0000
7	2	65	END	-31.	147.	-83.	2729.	3656.	1443.	-.0000	-.0001	.0002	.0000	-.0000	-.0000
7	3	70	END	-31.	147.	-83.	-17.	3656.	2470.	-.0000	-.0001	.0001	.0000	.0000	-.0000
8	1	70	BEG	27.	-158.	97.	17.	-3656.	-2470.	-.0000	-.0001	.0001	.0000	.0000	-.0000
8	1	75	END	-27.	158.	-97.	-75.	3656.	2486.	-.0000	-.0001	.0001	.0000	.0000	-.0000
8	2	80	END	-27.	158.	-97.	-5226.	-824.	-3362.	.0000	-.0000	.0000	.0000	.0000	.0000

8	2	80	END	-27.	158.	-97.	-5226.	-824.	-3362.	.0000	-.0000	.0000	.0000	.0000	.0000		

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-27.	158.	-97.	-5237.	-883.	-3456.	.0000	-.0000	.0000	.0000	.0000	.0000
9	1	85	BEG	32.	-164.	100.	5237.	883.	3456.	.0000	-.0000	.0000	.0000	.0000	.0000
9	1	86	END	-32.	164.	-100.	-5740.	-3686.	-7297.	.0000	-.0000	-.0000	.0000	.0000	.0000
9	2	87	END	-32.	164.	-100.	-553.	-3686.	-9535.	-.0000	-.0000	.0000	.0000	.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-94.	40.	294.	155.	15621.	-1747.	-.0001	-.0001	-.0002	.0000	-.0000	.0000
18	1	160	END	94.	-40.	-294.	-155.	-6535.	500.	-.0001	-.0002	-.0008	.0000	-.0000	.0000
18	2	165	END	94.	-40.	-294.	-155.	2550.	-748.	-.0001	-.0003	-.0018	.0000	-.0000	.0000
18	3	167	END	94.	-40.	-294.	-155.	14440.	-2380.	-.0001	-.0004	-.0030	.0000	-.0000	.0000
19	1	167	BEG	-103.	-12.	-61.	155.	-14440.	2380.	-.0001	-.0004	-.0030	.0000	-.0000	.0000
19	1	170	END	103.	12.	61.	-155.	11980.	-1915.	-.0001	-.0004	-.0033	.0000	.0000	-.0000
19	2	175	END	103.	12.	61.	-155.	9520.	-1450.	-.0001	-.0002	-.0027	-.0000	.0000	-.0000
20	1	175	BEG	-105.	-18.	-140.	155.	-9520.	1450.	-.0001	-.0002	-.0027	-.0000	.0000	-.0000
20	1	180	END	105.	18.	140.	-155.	3921.	-709.	-.0001	.0001	-.0012	-.0000	.0000	-.0000
20	2	185	END	105.	18.	140.	-155.	1254.	-355.	-.0001	.0002	-.0004	-.0000	.0000	-.0000
20	3	190	END	105.	18.	140.	23.	-3879.	190.	.0008	.0005	.0006	-.0000	.0000	-.0000
21	1	190	BEG	-87.	-8.	-128.	-23.	3879.	-190.	.0008	.0005	.0006	-.0000	.0000	-.0000
21	1	195	END	87.	8.	128.	23.	-3909.	192.	.0008	.0005	.0006	-.0000	.0000	-.0000
21	2	200	END	87.	8.	128.	23.	-3940.	194.	.0008	.0005	.0006	-.0000	.0000	-.0000
21	3	205	END	87.	8.	128.	9.	-3091.	148.	.0013	.0003	.0003	-.0000	-.0000	-.0000
22	1	205	BEG	-68.	-4.	-122.	-9.	3091.	-148.	.0013	.0003	.0003	-.0000	-.0000	-.0000
22	1	210	END	68.	4.	122.	9.	-1805.	111.	.0013	.0003	.0004	-.0000	-.0000	-.0000
22	2	215	END	68.	4.	122.	9.	-519.	74.	.0013	.0002	.0004	-.0000	-.0000	-.0000
22	3	220	END	68.	4.	122.	82.	621.	0.	.0013	.0001	.0004	-.0000	.0000	-.0000
23	1	220	BEG	-28.	-2.	-109.	-82.	-621.	0.	.0013	.0001	.0004	-.0000	.0000	-.0000
23	1	225	END	28.	2.	109.	112.	160.	-0.	.0013	.0001	.0004	-.0000	.0000	-.0000
23	2	230	END	28.	2.	109.	180.	-894.	-0.	.0014	.0001	.0004	-.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	28.	2.	109.	248.	-1947.	-0.	.0015	.0001	.0005	-.0000	-.0000	-.0000
23	4	240	END	28.	2.	109.	316.	-3000.	-0.	.0013	.0001	.0005	.0000	-.0000	-.0000
24	1	240	BEG	27.	3.	-90.	-316.	3000.	0.	.0013	.0001	.0005	.0000	-.0000	-.0000
24	1	245	END	-27.	-3.	90.	211.	-2000.	0.	.0010	.0001	.0005	.0000	-.0000	-.0000
24	2	250	END	-27.	-3.	90.	105.	-1000.	0.	.0005	.0000	.0005	.0000	-.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	.0005	.0000	-.0000	-.0000
24	3	255	END	-27.	-3.	90.	0.	0.	0.	-.0000	-.0000	.0005	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 9 FREQUENCY 15.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-93.	-14.	264.	-6171.	5296.	-7690.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-6.	-6.	-8.	-0.	0.	-0.	-.0001	-.0001	-.0001	.0000	-.0000	.0000
3	20	-6.	-8.	-14.	-0.	0.	-0.	-.0001	-.0001	-.0002	.0000	-.0000	.0000
4	30	1.	-10.	-16.	0.	-0.	-0.	.0000	-.0001	-.0002	-.0000	-.0000	.0000
5	40	7.	-9.	-3.	0.	0.	-0.	.0001	-.0001	-.0000	-.0000	-.0000	.0000
6	50	14.	-14.	20.	0.	0.	0.	.0001	-.0001	.0002	-.0000	-.0000	-.0000
7	57	20.	-45.	133.	0.	-0.	0.	.0000	-.0001	.0003	-.0000	-.0000	-.0000
8	70	-4.	-11.	14.	-0.	-0.	0.	-.0000	-.0001	.0001	.0000	.0000	-.0000
9	85	5.	-6.	3.	-0.	-0.	-0.	.0000	-.0000	.0000	.0000	.0000	.0000
10	87	-32.	164.	-100.	-553.	-3686.	-9535.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-9.	-52.	-355.	0.	0.	-0.	-.0001	-.0004	-.0030	.0000	-.0000	.0000
20	175	-2.	-7.	-78.	0.	-0.	0.	-.0001	-.0002	-.0027	-.0000	.0000	-.0000
21	190	18.	16.	12.	0.	-0.	0.	.0008	.0005	.0006	-.0000	.0000	-.0000
22	205	19.	5.	5.	-0.	-0.	0.	.0013	.0003	.0003	-.0000	-.0000	-.0000
23	220	40.	2.	14.	-0.	-0.	0.	.0013	.0001	.0004	-.0000	.0000	-.0000
24	240	55.	5.	19.	0.	0.	-0.	.0013	.0001	.0005	.0000	-.0000	-.0000
25	255	-27.	-3.	90.	0.	0.	0.	-.0000	-.0000	.0005	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

[redacted] 25 256 -27 [redacted] -3 [redacted] 90. [redacted] 0 [redacted] 0 [redacted] 0 [redacted] -.0000 [redacted] -.0000 [redacted] .0005 [redacted] .0000 [redacted] -.0000 [redacted] -.0000 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 9 FREQUENCY 15.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

LOADS
SHOCK

MODE 10 FREQUENCY 18.09

SC	WE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	17.	-129.	3.	3906.	1156.	333.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-17.	129.	-3.	-3831.	-1147.	-349.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
1	2	15	END	-17.	129.	-3.	1723.	-437.	-804.	-.0001	.0001	.0001	-.0000	-.0000	-.0000
2	1	15	BEG	13.	-125.	7.	-1723.	437.	804.	-.0001	.0001	.0001	-.0000	-.0000	-.0000
2	1	20	END	-13.	125.	-7.	1573.	-437.	-539.	-.0001	.0001	.0001	-.0000	-.0000	-.0000
3	1	20	BEG	-9.	-23.	-3.	-1094.	-274.	-4326.	-.0001	.0001	.0001	-.0000	-.0000	-.0000
3	1	25	END	9.	23.	3.	1204.	274.	4011.	-.0001	.0001	.0001	-.0000	-.0000	-.0000
3	2	30	END	9.	23.	3.	1315.	274.	3697.	-.0001	.0001	.0001	.0000	-.0000	-.0000
4	1	30	BEG	-23.	-16.	6.	-1315.	-274.	-3697.	-.0001	.0001	.0001	.0000	-.0000	-.0000
4	1	35	END	23.	16.	-6.	1119.	274.	2894.	-.0001	.0001	.0001	.0000	-.0000	.0000
4	2	40	END	23.	16.	-6.	923.	274.	2091.	-.0001	.0001	.0001	.0000	-.0000	.0000
5	1	40	BEG	-32.	-10.	12.	-923.	-274.	-2091.	-.0001	.0001	.0001	.0000	-.0000	.0000
5	1	45	END	32.	10.	-12.	500.	274.	945.	-.0001	.0001	.0000	.0000	-.0000	.0000
5	2	50	END	32.	10.	-12.	78.	274.	-201.	-.0000	.0001	.0000	.0000	-.0000	.0000
6	1	50	BEG	-33.	1.	15.	-78.	-274.	201.	-.0000	.0001	.0000	.0000	-.0000	.0000
6	1	55	END	33.	-1.	-15.	-814.	274.	-2194.	.0001	.0001	-.0000	.0000	-.0000	.0000
6	2	57	END	33.	-1.	-15.	-1780.	274.	-4352.	.0001	.0001	-.0000	.0000	-.0000	.0000
7	1	57	BEG	27.	35.	-11.	1780.	-274.	4352.	.0001	.0001	-.0000	.0000	-.0000	.0000
7	1	60	END	-27.	-35.	11.	-1345.	274.	-3296.	.0001	.0001	-.0001	.0000	-.0000	-.0000
7	2	65	END	-27.	-35.	11.	-910.	274.	-2239.	.0001	.0001	-.0001	-.0000	-.0000	-.0000
7	3	70	END	-27.	-35.	11.	-541.	274.	-1342.	.0001	.0001	-.0000	-.0000	-.0000	-.0000
8	1	70	BEG	35.	44.	-17.	541.	-274.	1342.	.0001	.0001	-.0000	-.0000	-.0000	-.0000
8	1	75	END	-35.	-44.	17.	-530.	274.	-1321.	.0001	.0001	-.0000	-.0000	-.0000	-.0000
8	2	80	END	-35.	-44.	17.	460.	870.	2225.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000

8	2	80	END	-35.	-44.	17.	460.	870.	2225.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000		

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-35.	-44.	17.	463.	878.	2251.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	85	BEG	34.	47.	-19.	-463.	-878.	-2251.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	86	END	-34.	-47.	19.	606.	1281.	3513.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	2	87	END	-34.	-47.	19.	-364.	1281.	1759.	.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	14.	-95.	17.	-480.	711.	4865.	-.0001	.0001	.0001	-.0000	-.0000	-.0000
18	1	160	END	-14.	95.	-17.	480.	-186.	-1915.	-.0001	.0002	.0000	.0000	-.0000	-.0000
18	2	165	END	-14.	95.	-17.	480.	339.	1036.	-.0001	.0005	-.0001	.0000	-.0000	-.0000
18	3	167	END	-14.	95.	-17.	480.	1025.	4897.	-.0001	.0008	-.0001	.0000	-.0000	-.0000
19	1	167	BEG	0.	21.	-5.	-480.	-1025.	-4897.	-.0001	.0008	-.0001	.0000	-.0000	-.0000
19	1	170	END	-0.	-21.	5.	480.	845.	4036.	-.0001	.0008	-.0002	.0000	.0000	.0000
19	2	175	END	-0.	-21.	5.	480.	664.	3174.	-.0001	.0004	-.0001	.0000	.0000	.0000
20	1	175	BEG	-3.	38.	-9.	-480.	-664.	-3174.	-.0001	.0004	-.0001	.0000	.0000	.0000
20	1	180	END	3.	-38.	9.	480.	314.	1642.	-.0001	-.0002	-.0000	.0000	.0000	.0000
20	2	185	END	3.	-38.	9.	480.	148.	912.	-.0001	-.0005	.0001	.0000	.0000	.0000
20	3	190	END	3.	-38.	9.	-334.	-104.	114.	-.0000	-.0011	.0001	.0000	.0000	.0000
21	1	190	BEG	-5.	8.	-5.	334.	104.	-114.	-.0000	-.0011	.0001	.0000	.0000	.0000
21	1	195	END	5.	-8.	5.	-336.	-106.	115.	-.0000	-.0011	.0001	.0000	.0000	.0000
21	2	200	END	5.	-8.	5.	-339.	-107.	115.	-.0000	-.0011	.0001	.0000	.0000	.0000
21	3	205	END	5.	-8.	5.	-515.	-103.	290.	-.0000	-.0008	.0001	.0000	.0000	.0000
22	1	205	BEG	-5.	-7.	-3.	515.	103.	-290.	-.0000	-.0008	.0001	.0000	.0000	.0000
22	1	210	END	5.	7.	3.	-515.	-72.	218.	-.0000	-.0005	.0001	.0000	.0000	.0000
22	2	215	END	5.	7.	3.	-515.	-42.	145.	-.0000	-.0003	.0001	.0000	.0000	.0000
22	3	220	END	5.	7.	3.	-370.	-84.	-0.	.0000	.0001	.0000	.0000	.0000	.0000
23	1	220	BEG	-4.	-1.	-3.	370.	84.	-0.	.0000	.0001	.0000	.0000	.0000	.0000
23	1	225	END	4.	1.	3.	-350.	-144.	0.	.0001	.0001	.0000	.0000	.0000	.0000
23	2	230	END	4.	1.	3.	-306.	-283.	0.	.0001	.0000	.0000	.0000	.0000	.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	4.	1.	3.	-262.	-421.	0.	.0002	.0000	.0000	.0000	.0000	.0000
23	4	240	END	4.	1.	3.	-218.	-560.	0.	.0002	-.0000	.0000	.0000	-.0000	.0000
24	1	240	BEG	5.	-2.	-2.	218.	560.	0.	.0002	-.0000	.0000	.0000	-.0000	.0000
24	1	245	END	-5.	2.	2.	-145.	-373.	0.	.0001	-.0000	.0000	-.0000	-.0000	.0000
24	2	250	END	-5.	2.	2.	-73.	-187.	0.	.0001	-.0000	.0000	-.0000	-.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	.0000	.0000	-.0000	-.0000	.0000
24	3	255	END	-5.	2.	2.	0.	0.	0.	-.0000	.0000	.0000	-.0000	-.0000	.0000

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 10 FREQUENCY 18.09

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	17.	-129.	3.	3906.	1156.	333.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-4.	4.	5.	0.	0.	0.	-.0001	.0001	.0001	-.0000	-.0000	-.0000
3	20	-8.	6.	7.	0.	0.	0.	-.0001	.0001	.0001	-.0000	-.0000	-.0000
4	30	-14.	7.	9.	-0.	0.	0.	-.0001	.0001	.0001	.0000	-.0000	-.0000
5	40	-10.	7.	6.	-0.	-0.	-0.	-.0001	.0001	.0001	.0000	-.0000	.0000
6	50	-1.	10.	3.	-0.	0.	-0.	-.0000	.0001	.0000	.0000	-.0000	.0000
7	57	60.	35.	-26.	-0.	-0.	-0.	.0001	.0001	-.0000	.0000	-.0000	.0000
8	70	8.	9.	-6.	0.	0.	0.	.0001	.0001	-.0000	-.0000	-.0000	-.0000
9	65	-1.	2.	-1.	0.	0.	0.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	87	-34.	-47.	19.	-364.	1281.	1759.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	6.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-14.	117.	-21.	0.	0.	0.	-.0001	.0008	-.0001	.0000	-.0000	-.0000
20	175	-3.	17.	-4.	0.	-0.	-0.	-.0001	.0004	-.0001	.0000	.0000	.0000
21	190	-1.	-30.	4.	-0.	-0.	-0.	-.0000	-.0011	.0001	.0000	.0000	.0000
22	205	-0.	-15.	2.	0.	-0.	-0.	-.0000	-.0008	.0001	.0000	.0000	.0000
23	220	1.	6.	0.	0.	-0.	-0.	.0000	.0001	.0000	.0000	.0000	.0000
24	240	9.	-1.	0.	-0.	-0.	0.	.0002	-.0000	.0006	.0000	-.0000	.0000
25	255	-5.	2.	2.	0.	0.	0.	-.0000	.0000	.0000	-.0000	-.0000	.0000

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

25 255 -5. 2. 2. 0. 0. 0. -.0000 .0000 .0000 -.0000 -.0000 .0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 10 FREQUENCY 18.09

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

DYNAMIC PIPE STRESS ANALYSIS, MODE 11, FREQUENCY 21.27

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 12, FREQUENCY 23.56

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 13, FREQUENCY 27.61

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 14, FREQUENCY 28.68

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, NODE 15, FREQUENCY 31.57

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 16, FREQUENCY 32.32

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 17, FREQUENCY 38.57

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 18, FREQUENCY 41.84

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 19, FREQUENCY 47.39

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 20 FREQUENCY 48.93

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-64.	-62.	72.	235.	-1825.	-2176.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	64.	62.	-72.	-198.	1779.	2168.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	64.	62.	-72.	-714.	-1701.	-1279.	.0001	.0000	-.0000	.0000	.0000	.0000
2	1	15	BEG	-34.	-62.	59.	714.	1701.	1279.	.0001	.0000	-.0000	.0000	.0000	.0000
2	1	20	END	34.	62.	-59.	-1945.	-1701.	-1997.	.0001	.0000	-.0000	.0000	.0000	-.0000
3	1	20	BEG	14.	-63.	-2.	1921.	424.	2139.	.0001	.0000	-.0000	.0000	.0000	-.0000
3	1	25	END	-14.	63.	2.	-1853.	-424.	-1644.	.0000	.0000	-.0000	-.0000	.0000	-.0000
3	2	30	END	-14.	63.	2.	-1785.	-424.	-1150.	.0000	.0000	-.0000	-.0000	.0000	-.0000
4	1	30	BEG	37.	-61.	-29.	1785.	424.	1150.	.0000	.0000	-.0000	-.0000	.0000	-.0000
4	1	35	END	-37.	61.	29.	-740.	-424.	155.	.0000	.0000	-.0000	-.0000	.0000	-.0000
4	2	40	END	-37.	61.	29.	305.	-424.	1459.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
5	1	40	BEG	18.	-57.	-27.	-305.	424.	-1459.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
5	1	45	END	-18.	57.	27.	1259.	-424.	2092.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
5	2	50	END	-18.	57.	27.	2213.	-424.	2725.	-.0000	.0000	.0000	-.0000	-.0000	.0000
6	1	50	BEG	-38.	-50.	15.	-2213.	424.	-2725.	-.0000	.0000	.0000	-.0000	-.0000	.0000
6	1	55	END	38.	50.	-15.	1328.	-424.	465.	-.0000	.0000	.0000	.0000	-.0000	.0000
6	2	57	END	38.	50.	-15.	369.	-424.	-1983.	.0000	.0000	-.0000	.0000	-.0000	.0000
7	1	57	BEG	13.	-17.	13.	-369.	424.	1983.	.0000	.0000	-.0000	.0000	-.0000	.0000
7	1	60	END	-13.	17.	-13.	-146.	-424.	-1473.	.0000	.0000	-.0000	.0000	-.0000	.0000
7	2	65	END	-13.	17.	-13.	-662.	-424.	-964.	.0000	.0000	-.0000	.0000	-.0000	-.0000
7	3	70	END	-13.	17.	-13.	-1100.	-424.	-531.	.0000	.0000	-.0001	.0000	-.0000	-.0000
8	1	70	BEG	26.	-7.	-38.	1100.	424.	531.	.0000	.0000	-.0001	.0000	-.0000	-.0000
8	1	75	END	-26.	7.	38.	-1078.	-424.	-515.	.0000	.0000	-.0001	.0000	-.0000	-.0000
8	2	80	END	-26.	7.	38.	589.	1139.	336.	.0000	-.0000	-.0000	.0000	-.0000	.0000

8	2	80	END	-26.	7.	38.	589.	1139.	336.	.0000	-.0000	-.0000	.0000	-.0000	.0000

SC	NE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-26.	7.	38.	588.	1160.	332.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	1	85	BEG	30.	-12.	-75.	-588.	-1160.	-332.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	1	86	END	-30.	12.	75.	551.	3098.	4.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	2	87	END	-30.	12.	75.	-3340.	3098.	-1566.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-8.	3.	36.	24.	1277.	-141.	.0001	.0000	-.0000	.0000	.0000	-.0000
18	1	160	END	8.	-3.	-36.	-24.	-168.	58.	.0001	.0000	-.0001	.0000	-.0000	.0000
18	2	165	END	8.	-3.	-36.	-24.	942.	-24.	.0001	-.0000	-.0001	.0000	-.0000	.0000
18	3	167	END	8.	-3.	-36.	-24.	2394.	-133.	.0001	-.0000	-.0001	.0000	.0000	.0000
19	1	167	BEG	61.	-2.	-50.	24.	-2394.	133.	.0001	-.0000	-.0001	.0000	.0000	.0000
19	1	170	END	-61.	2.	50.	-24.	374.	-40.	.0001	-.0000	.0000	.0000	.0000	-.0000
19	2	175	END	-61.	2.	50.	-24.	-1647.	53.	.0001	.0000	.0002	.0000	.0000	-.0000
20	1	175	BEG	76.	-0.	7.	24.	1647.	-53.	.0001	.0000	.0002	.0000	.0000	-.0000
20	1	180	END	-76.	0.	-7.	-24.	-1359.	70.	.0001	.0000	.0002	-.0000	-.0000	-.0000
20	2	185	END	-76.	0.	-7.	-24.	-1222.	76.	.0000	.0000	.0002	-.0000	-.0000	.0000
20	3	190	END	-76.	0.	-7.	-4.	529.	-28.	-.0001	.0000	.0001	-.0000	-.0000	.0000
21	1	190	BEG	59.	1.	30.	4.	-529.	26.	-.0001	.0000	.0001	-.0000	-.0000	.0000
21	1	195	END	-59.	-1.	-30.	-4.	509.	-29.	-.0001	.0000	.0001	-.0000	-.0000	.0000
21	2	200	END	-59.	-1.	-30.	-4.	570.	-31.	-.0001	.0000	.0001	-.0000	-.0000	.0000
21	3	205	END	-59.	-1.	-30.	20.	1170.	-98.	-.0002	.0000	.0001	-.0000	.0000	-.0000
22	1	205	BEG	35.	2.	49.	-20.	-1170.	98.	-.0002	.0000	.0001	-.0000	.0000	-.0000
22	1	210	END	-35.	-2.	-49.	20.	657.	-73.	-.0002	.0000	.0001	-.0000	.0000	-.0000
22	2	215	END	-35.	-2.	-49.	20.	143.	-49.	-.0002	.0000	.0001	-.0000	.0000	-.0000
22	3	220	END	-35.	-2.	-49.	-29.	-146.	0.	-.0001	-.0000	-.0000	-.0000	.0000	-.0000
23	1	220	BEG	-0.	-0.	46.	29.	146.	0.	-.0001	-.0000	-.0000	-.0000	.0000	-.0000
23	1	225	END	0.	0.	-46.	-21.	-153.	-0.	-.0001	-.0000	-.0000	-.0000	.0000	-.0000
23	2	230	END	0.	0.	-46.	-3.	-170.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

SC	NE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	-46.	14.	-186.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
23	4	240	END	0.	0.	-46.	32.	-202.	-0.	.0000	.0000	-.0000	-.0000	.0000	-.0000
24	1	240	BEG	2.	0.	39.	-32.	202.	0.	.0000	.0000	-.0000	-.0000	.0000	-.0000
24	1	245	END	-2.	-0.	-39.	21.	-135.	0.	.0000	.0000	-.0000	.0000	.0000	-.0000
24	2	250	END	-2.	-0.	-39.	11.	-67.	0.	.0000	.0000	-.0000	.0000	-.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000
24	3	255	END	-2.	-0.	-39.	0.	0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
LINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 20 FREQUENCY 48.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-64.	-62.	72.	235.	-1825.	-2176.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	30.	0.	-13.	-0.	-0.	-0.	.0001	.0000	-.0000	.0000	.0000	.0000
3	20	40.	1.	-25.	-0.	0.	0.	.0001	.0000	-.0000	.0000	.0000	-.0000
4	30	23.	2.	-27.	0.	-0.	0.	.0000	.0000	-.0000	-.0000	.0000	-.0000
5	40	-19.	4.	3.	0.	0.	0.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
6	50	-55.	8.	42.	0.	0.	-0.	-.0000	.0000	.0000	-.0000	-.0000	.0000
7	57	51.	33.	-2.	-0.	-0.	-0.	.0000	.0000	-.0000	.0000	-.0000	.0000
8	70	13.	9.	-51.	-0.	0.	0.	.0000	.0000	-.0001	.0000	-.0000	-.0000
9	85	4.	-5.	-37.	0.	0.	-0.	.0000	-.0000	-.0000	.0000	-.0000	.0000
10	87	-30.	12.	75.	-3340.	3098.	-1566.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	69.	-5.	-86.	0.	-0.	0.	.0001	-.0000	-.0001	.0000	.0000	.0000
20	175	15.	2.	58.	-0.	-0.	0.	.0001	.0000	.0002	.0000	.0000	-.0000
21	190	-17.	1.	23.	0.	0.	-0.	-.0001	.0000	.0001	-.0000	-.0000	.0000
22	205	-24.	1.	19.	-0.	0.	0.	-.0002	.0000	.0001	-.0000	.0000	-.0000
23	220	-36.	-3.	-3.	-0.	-0.	0.	-.0001	-.0000	-.0000	-.0000	.0000	-.0000
24	240	2.	1.	-6.	0.	-0.	-0.	.0000	.0000	-.0000	-.0000	.0000	-.0000
25	255	-2.	-0.	-39.	0.	0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

255 -2. 0. 0. 0. 0. 0000 0000 0000 0000 0000 0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
MODE 20 FREQUENCY 48.93 .

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1 1 5 BEG SQ,RT,SUM OF SQ	4915.	6260.	3863.	155010.	157574.	340962.	0.000	0.000	0.000	0.0000	0.0000	0.0000
1 1 10 END SQ,RT,SUM OF SQ	4915.	6260.	3863.	154215.	154904.	340312.	.000	.000	.000	.0000	.0000	.0000
1 2 10 BEG SQ,RT,SUM OF SQ	4915.	6260.	3863.	154215.	154904.	340312.	.000	.000	.000	.0000	.0000	.0000
1 2 15 END SQ,RT,SUM OF SQ	4915.	6260.	3863.	123883.	107291.	82555.	.012	.006	.008	.0003	.0002	.0003
2 1 15 BEG SQ,RT,SUM OF SQ	4747.	6256.	3760.	123883.	107291.	82555.	.012	.006	.008	.0003	.0002	.0003
2 1 20 END SQ,RT,SUM OF SQ	4747.	6256.	3760.	69591.	107291.	55457.	.018	.006	.014	.0003	.0002	.0003
3 1 20 BEG SQ,RT,SUM OF SQ	3345.	6100.	3308.	76626.	81877.	90694.	.018	.006	.014	.0003	.0002	.0003
3 1 25 END SQ,RT,SUM OF SQ	3345.	6100.	3308.	104875.	81877.	98756.	.027	.006	.025	.0003	.0002	.0003
3 2 25 BEG SQ,RT,SUM OF SQ	3345.	6100.	3308.	104875.	81877.	98756.	.027	.006	.025	.0003	.0002	.0003
3 2 30 END SQ,RT,SUM OF SQ	3345.	6100.	3308.	209358.	81877.	199018.	.036	.006	.035	.0003	.0002	.0002
4 1 30 BEG SQ,RT,SUM OF SQ	2593.	6094.	2603.	209358.	81877.	199018.	.036	.006	.035	.0003	.0002	.0002
4 1 35 END SQ,RT,SUM OF SQ	2593.	6094.	2603.	298010.	81877.	286358.	.044	.006	.043	.0002	.0002	.0002
4 2 35 BEG SQ,RT,SUM OF SQ	2593.	6094.	2603.	298010.	81877.	286358.	.044	.006	.043	.0002	.0002	.0002
4 2 40 END SQ,RT,SUM OF SQ	2593.	6094.	2603.	388515.	81877.	376064.	.050	.006	.050	.0002	.0002	.0001
5 1 40 BEG SQ,RT,SUM OF SQ	1556.	6087.	1572.	388515.	81877.	376064.	.050	.006	.050	.0002	.0002	.0001
5 1 45 END SQ,RT,SUM OF SQ	1556.	6087.	1572.	443021.	81877.	429786.	.054	.006	.055	.0001	.0002	.0001
5 2 45 BEG SQ,RT,SUM OF SQ	1556.	6087.	1572.	443021.	81877.	429786.	.054	.006	.055	.0001	.0002	.0001

5 2 45 BEG
SQ,R[redacted] OF [redacted]1556[redacted]6087[redacted]572.[redacted]3021[redacted]1877[redacted]2976[redacted].05[redacted].006[redacted]55 [redacted] .0002 .0001 [redacted]

NINE MILE POWER STAT MODEL 1 X SHOCK

NODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF NODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
5 2 50 END SQ,RT,SUM OF SQ	1556.	6087.	1572.	497041.	81877.	483877.	.055	.006	.057	.0000	.0002	.0000
6 1 50 BEG SQ,RT,SUM OF SQ	342.	6073.	295.	497041.	81877.	483877.	.055	.006	.057	.0000	.0002	.0000
6 1 55 END SQ,RT,SUM OF SQ	342.	6073.	295.	483285.	81877.	470798.	.051	.006	.054	.0001	.0002	.0001
6 2 55 BEG SQ,RT,SUM OF SQ	342.	6073.	295.	483285.	81877.	470798.	.051	.006	.054	.0001	.0002	.0001
6 2 57 END SQ,RT,SUM OF SQ	342.	6073.	295.	467761.	81877.	457250.	.041	.006	.045	.0002	.0002	.0002
7 1 57 BEG SQ,RT,SUM OF SQ	4559.	6030.	4945.	467761.	81877.	457250.	.041	.006	.045	.0002	.0002	.0002
7 1 60 END SQ,RT,SUM OF SQ	4559.	6030.	4945.	271830.	81877.	279074.	.032	.006	.036	.0002	.0002	.0003
7 2 60 BEG SQ,RT,SUM OF SQ	4559.	6030.	4945.	271830.	81877.	279074.	.032	.006	.036	.0002	.0002	.0003
7 2 65 END SQ,RT,SUM OF SQ	4559.	6030.	4945.	75960.	81877.	109382.	.021	.006	.025	.0003	.0002	.0003
7 3 65 BEG SQ,RT,SUM OF SQ	4559.	6030.	4945.	75960.	81877.	109382.	.021	.006	.025	.0003	.0002	.0003
7 3 70 END SQ,RT,SUM OF SQ	4559.	6030.	4945.	90619.	81877.	85091.	.010	.006	.015	.0003	.0002	.0003
8 1 70 BEG SQ,RT,SUM OF SQ	4822.	6018.	5354.	90619.	81877.	85091.	.010	.006	.015	.0003	.0002	.0003
8 1 75 END SQ,RT,SUM OF SQ	4822.	6018.	5354.	93028.	81877.	87172.	.010	.006	.015	.0003	.0002	.0003
8 2 75 BEG SQ,RT,SUM OF SQ	4822.	6018.	5354.	93828.	81877.	87172.	.010	.006	.015	.0003	.0002	.0003
8 2 80 END SQ,RT,SUM OF SQ	4822.	6018.	5354.	310640.	175931.	201886.	.000	.001	.001	.0000	.0000	.0000
8 3 80 BEG SQ,RT,SUM OF SQ	4822.	6018.	5354.	310640.	175931.	201886.	.000	.001	.001	.0000	.0000	.0000
8 3 85 END SQ,RT,SUM OF SQ	4822.	6018.	5354.	310327.	179026.	202937.	.000	.001	.001	.0000	.0000	.0000

NINE MILE POWER STAT MODEL 1 X SHOCK

8 3 85 END
SQ, [redacted] M O[redacted] AE[redacted] 601[redacted] 535[redacted] 3103[redacted] 1790[redacted] 202[redacted] [redacted] .00[redacted] .001 [redacted] [redacted] [redacted]

NINE MILE POWER STAT MODEL 1 X SHOCK

NODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
9 1 85 BEG SQ,RT,SUM OF SQ	4853.	6071.	5413.	310327.	179026.	202937.	.000	.001	.001	.0000	.0000	.0000
9 1 86 END SQ,RT,SUM OF SQ	4853.	6071.	5413.	295715.	323882.	297673.	.000	.000	.000	.0000	.0000	.0000
9 2 86 BEG SQ,RT,SUM OF SQ	4853.	6071.	5413.	295715.	323882.	297673.	.000	.000	.000	.0000	.0000	.0000
9 2 87 END SQ,RT,SUM OF SQ	4853.	6071.	5413.	29642.	323882.	374242.	.000	.000	.000	.0000	.0000	.0000
10 1 87 BEG SQ,RT,SUM OF SQ	2824.	1799.	2048.	85247.	149793.	42649.	0.000	0.000	0.000	0.0000	0.0000	0.0000
10 1 88 END SQ,RT,SUM OF SQ	2824.	1799.	2048.	92902.	156431.	95573.	.000	.000	.000	.0000	.0000	.0000
10 2 88 BEG SQ,RT,SUM OF SQ	2824.	1799.	2048.	92902.	156431.	95573.	.000	.000	.000	.0000	.0000	.0000
10 2 90 END SQ,RT,SUM OF SQ	2824.	1799.	2048.	62104.	78109.	104702.	.000	.000	.000	.0000	.0000	.0000
11 1 90 BEG SQ,RT,SUM OF SQ	2774.	1777.	2041.	62104.	78109.	104702.	.000	.000	.000	.0000	.0000	.0000
11 1 95 END SQ,RT,SUM OF SQ	2774.	1777.	2041.	61789.	76578.	104883.	.000	.000	.000	.0000	.0000	.0000
11 2 95 BEG SQ,RT,SUM OF SQ	2774.	1777.	2041.	61789.	76578.	104883.	.000	.000	.000	.0000	.0000	.0000
11 2 100 END SQ,RT,SUM OF SQ	2774.	1777.	2041.	22522.	45198.	6396.	.005	.002	.003	.0001	.0001	.0001
12 1 100 BEG SQ,RT,SUM OF SQ	2106.	1854.	1709.	22522.	45198.	6396.	.005	.002	.003	.0001	.0001	.0001
12 1 105 END SQ,RT,SUM OF SQ	2106.	1854.	1709.	40165.	45198.	37700.	.006	.002	.004	.0001	.0001	.0001
12 2 105 BEG SQ,RT,SUM OF SQ	2106.	1854.	1709.	40165.	45198.	37700.	.006	.002	.004	.0001	.0001	.0001
12 2 107 END SQ,RT,SUM OF SQ	2106.	1854.	1709.	130050.	45198.	153472.	.010	.002	.008	.0001	.0001	.0001
13 1 107 BEG SQ,RT,SUM OF SQ	339.	1983.	435.	130050.	45198.	153472.	.010	.002	.008	.0001	.0001	.0001

NINE MILE POWER STAT MODEL 1 X SHOCK

13 1 107 BEG
SQ,RT,SUM OF SQ 339. 1983. 435. 150050. 45198. 153472. .010 .002 .008 .0001 .0001

NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
13 1 110 END SQ,RT,SUM OF SQ	339.	1983.	435.	144517.	45198.	165492.	.011	.002	.010	.0006	.0000	.0000
13 2 110 BEG SQ,RT,SUM OF SQ	339.	1983.	435.	144517.	45198.	165492.	.011	.002	.010	.0006	.0000	.0000
13 2 115 END SQ,RT,SUM OF SQ	339.	1983.	435.	159163.	45198.	177513.	.012	.002	.011	.0000	.0000	.0000
14 1 115 BEG SQ,RT,SUM OF SQ	562.	2041.	324.	159163.	45198.	177513.	.012	.002	.011	.0000	.0000	.0000
14 1 120 END SQ,RT,SUM OF SQ	562.	2041.	324.	147962.	45198.	157679.	.012	.002	.011	.0000	.0000	.0000
14 2 120 BEG SQ,RT,SUM OF SQ	562.	2041.	324.	147962.	45198.	157679.	.012	.002	.011	.0000	.0000	.0000
14 2 125 END SQ,RT,SUM OF SQ	562.	2041.	324.	136808.	45198.	137873.	.010	.002	.010	.0000	.0000	.0000
15 1 125 BEG SQ,RT,SUM OF SQ	1475.	2109.	1133.	136808.	45198.	137873.	.010	.002	.010	.0000	.0000	.0000
15 1 130 END SQ,RT,SUM OF SQ	1475.	2109.	1133.	82436.	45198.	67737.	.007	.002	.008	.0001	.0000	.0001
15 2 130 BEG SQ,RT,SUM OF SQ	1475.	2109.	1133.	82436.	45198.	67737.	.007	.002	.008	.0001	.0000	.0001
15 2 135 END SQ,RT,SUM OF SQ	1475.	2109.	1133.	28080.	45198.	13689.	.004	.002	.005	.0001	.0000	.0001
16 1 135 BEG SQ,RT,SUM OF SQ	1804.	2176.	1536.	28080.	45198.	13689.	.004	.002	.005	.0001	.0000	.0001
16 1 140 END SQ,RT,SUM OF SQ	1804.	2176.	1536.	8347.	45198.	30414.	.003	.002	.004	.0001	.0000	.0001
16 2 140 BEG SQ,RT,SUM OF SQ	1804.	2176.	1536.	8347.	45198.	30414.	.003	.002	.004	.0001	.0000	.0001
16 2 145 END SQ,RT,SUM OF SQ	1804.	2176.	1536.	98161.	34512.	57857.	.000	.000	.000	.0000	.0000	.0000
16 3 145 BEG SQ,RT,SUM OF SQ	1804.	2176.	1536.	98161.	34512.	57857.	.000	.000	.000	.0000	.0000	.0000
16 3 150 END SQ,RT,SUM OF SQ	1804.	2176.	1536.	99157.	35477.	57411.	.000	.000	.000	.0000	.0000	.0000

NINE MILE POWER STAT MODEL 1 X SHOCK

16 3 150 END
SQ,[redacted]H OF[redacted] 18[redacted] 217[redacted] 153[redacted] 991[redacted] 35[redacted] 57[redacted] [redacted] .00[redacted] .000 [redacted]06 [redacted] .0000 [redacted]

NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
17 1 150 BEG SQ,RT,SUM OF SQ	1814.	2197.	1558.	99157.	35477.	57411.	.000	.000	.000	.0000	.0000	.0000
17 1 155 END SQ,RT,SUM OF SQ	1814.	2197.	1558.	155131.	99127.	53797.	.000	.000	.000	.0000	.0000	.0000
18 1 20 BEG SQ,RT,SUM OF SQ	1111.	699.	482.	9708.	74056.	141678.	.018	.006	.014	.0003	.0002	.0003
18 1 160 END SQ,RT,SUM OF SQ	1111.	699.	482.	9708.	64433.	120678.	.018	.006	.017	.0003	.0002	.0003
18 2 160 BEG SQ,RT,SUM OF SQ	1111.	699.	482.	9708.	64433.	120678.	.018	.006	.017	.0003	.0002	.0003
18 2 165 END SQ,RT,SUM OF SQ	1111.	699.	482.	9708.	57122.	99936.	.018	.014	.019	.0003	.0002	.0004
18 3 165 BEG SQ,RT,SUM OF SQ	1111.	699.	482.	9708.	57122.	99936.	.018	.014	.019	.0003	.0002	.0004
18 3 167 END SQ,RT,SUM OF SQ	1111.	699.	482.	9708.	52640.	73541.	.018	.030	.025	.0002	.0002	.0004
19 1 167 BEG SQ,RT,SUM OF SQ	584.	591.	488.	9708.	52640.	73541.	.018	.030	.025	.0002	.0002	.0004
19 1 170 END SQ,RT,SUM OF SQ	584.	591.	488.	9708.	33916.	49869.	.018	.048	.033	.0002	.0003	.0005
19 2 170 BEG SQ,RT,SUM OF SQ	584.	591.	488.	9708.	33916.	49669.	.018	.048	.033	.0002	.0003	.0005
19 2 175 END SQ,RT,SUM OF SQ	584.	591.	488.	9708.	17216.	26283.	.018	.070	.042	.0002	.0003	.0006
20 1 175 BEG SQ,RT,SUM OF SQ	466.	482.	546.	9708.	17216.	26283.	.018	.070	.042	.0002	.0003	.0006
20 1 180 END SQ,RT,SUM OF SQ	466.	482.	546.	9708.	13825.	7496.	.018	.094	.054	.0002	.0003	.0006
20 2 180 BEG SQ,RT,SUM OF SQ	466.	482.	546.	9708.	13825.	7496.	.018	.094	.054	.0002	.0003	.0006
20 2 185 END SQ,RT,SUM OF SQ	466.	482.	546.	9708.	21879.	4052.	.018	.106	.059	.0002	.0003	.0006
20 3 185 BEG SQ,RT,SUM OF SQ	466.	482.	546.	9708.	21879.	4052.	.018	.106	.059	.0002	.0003	.0006

NINE MILE POWER STAT MODEL 1 X SHOCK

20 3 185 BEG
SQ. [redacted] OF [redacted] 46 [redacted] 48 [redacted] 546 [redacted] 97 [redacted] 218 [redacted] 40 [redacted] .10 [redacted] 059 [redacted] 2 [redacted] .0006 [redacted]

NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
20 3 190 END SQ.RT.SUM OF SQ	466.	482.	546.	13078.	26741.	13348.	.020	.117	.065	.0002	.0002	.0006
21 1 190 BEG SQ.RT.SUM OF SQ	358.	293.	550.	13078.	26741.	13346.	.020	.117	.065	.0002	.0002	.0006
21 1 195 END SQ.RT.SUM OF SQ	358.	293.	550.	13152.	26686.	13353.	.020	.117	.065	.0002	.0002	.0006
21 2 195 BEG SQ.RT.SUM OF SQ	358.	293.	550.	13152.	26686.	13353.	.020	.117	.065	.0002	.0002	.0006
21 2 200 END SQ.RT.SUM OF SQ	358.	293.	550.	13229.	26631.	13357.	.020	.117	.065	.0002	.0002	.0006
21 3 200 BEG SQ.RT.SUM OF SQ	358.	293.	550.	13229.	26631.	13357.	.020	.117	.065	.0002	.0002	.0006
21 3 205 END SQ.RT.SUM OF SQ	358.	293.	550.	18398.	15248.	7528.	.024	.104	.063	.0002	.0002	.0006
22 1 205 BEG SQ.RT.SUM OF SQ	260.	179.	547.	18398.	15248.	7528.	.024	.104	.063	.0002	.0002	.0006
22 1 210 END SQ.RT.SUM OF SQ	260.	179.	547.	18398.	12587.	5646.	.024	.098	.063	.0002	.0002	.0006
22 2 210 BEG SQ.RT.SUM OF SQ	260.	179.	547.	18398.	12587.	5646.	.024	.098	.063	.0002	.0002	.0006
22 2 215 END SQ.RT.SUM OF SQ	260.	179.	547.	18398.	12264.	3764.	.024	.092	.063	.0002	.0002	.0006
22 3 215 BEG SQ.RT.SUM OF SQ	260.	179.	547.	18398.	12264.	3764.	.024	.092	.063	.0002	.0002	.0006
22 3 220 END SQ.RT.SUM OF SQ	260.	179.	547.	21559.	23017.	0.	.025	.077	.063	.0002	.0001	.0006
23 1 220 BEG SQ.RT.SUM OF SQ	49.	38.	483.	21559.	23017.	0.	.025	.077	.063	.0002	.0001	.0006
23 1 225 END SQ.RT.SUM OF SQ	49.	38.	483.	21223.	23353.	0.	.026	.073	.063	.0002	.0001	.0006
23 2 225 BEG SQ.RT.SUM OF SQ	49.	38.	483.	21223.	23353.	0.	.026	.073	.063	.0002	.0001	.0006
23 2 230 END SQ.RT.SUM OF SQ	49.	38.	483.	20504.	24200.	0.	.025	.063	.063	.0003	.0000	.0006

NINE MILE POWER STAT MODEL 1 X SHOCK

23 2 230 END
SQ.RT.SUM OF SQ 49. 38. 483. 20504. 24200. 0. .025 .063 .063 .0003 .0000 .0006

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23 3 230 BEG SQ.RT.SUM OF SQ	49.	38.	483.	20504.	24200.	0.	.025	.063	.063	.0003	.0000	.0006
23 3 235 END SQ.RT.SUM OF SQ	49.	38.	483.	19859.	25150.	0.	.023	.053	.063	.0003	.0001	.0006
23 4 235 BEG SQ.RT.SUM OF SQ	49.	38.	483.	19859.	25150.	0.	.023	.053	.063	.0003	.0001	.0006
23 4 240 END SQ.RT.SUM OF SQ	49.	38.	483.	19294.	26192.	0.	.020	.041	.063	.0003	.0001	.0006
24 1 240 BEG SQ.RT.SUM OF SQ	234.	172.	399.	19294.	26192.	0.	.020	.041	.063	.0003	.0001	.0006
24 1 245 END SQ.RT.SUM OF SQ	234.	172.	399.	12863.	17461.	0.	.014	.028	.063	.0004	.0002	.0006
24 2 245 BEG SQ.RT.SUM OF SQ	234.	172.	399.	12863.	17461.	0.	.014	.028	.063	.0004	.0002	.0006
24 2 250 END SQ.RT.SUM OF SQ	234.	172.	399.	6431.	8731.	0.	.007	.014	.063	.0004	.0002	.0006
24 3 250 BEG SQ.RT.SUM OF SQ	234.	172.	399.	6431.	8731.	0.	.007	.014	.063	.0004	.0002	.0006
24 3 255 DIS SQ.RT.SUM OF SQ	0.	0.	0.	0.	0.	0.	.000	.000	.063	.0004	.0002	.0006
24 3 255 END SQ.RT.SUM OF SQ	234.	172.	399.	0.	0.	0.	.000	.000	.063	.0004	.0002	.0006

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
RMS MODAL SUMMARY
NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	4915.	6260.	3863.	155010.	157574.	340962.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	170.	69.	108.	0.	0.	0.	.0124	.0057	.0083	.0003	.0002	.0003
3	20	325.	92.	251.	0.	0.	0.	.0179	.0057	.0144	.0003	.0002	.0003
4	30	756.	107.	710.	0.	0.	0.	.0361	.0057	.0346	.0003	.0002	.0002
5	40	1047.	107.	1037.	0.	0.	0.	.0499	.0057	.0562	.0002	.0002	.0001
6	50	1757.	163.	1794.	0.	0.	0.	.0553	.0057	.0570	.0000	.0002	.0000
7	57	4338.	549.	4712.	0.	0.	0.	.0411	.0057	.0446	.0002	.0002	.0002
8	70	276.	142.	412.	0.	0.	0.	.0105	.0057	.0154	.0003	.0002	.0003
9	85	45.	55.	70.	0.	0.	0.	.0004	.0005	.0006	.0000	.0000	.0000
10	87	5615.	6332.	5788.	90253.	356844.	376664.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	51.	26.	26.	0.	0.	0.	.0002	.0001	.0001	.0000	.0000	.0000
12	100	669.	214.	349.	0.	0.	0.	.0050	.0018	.0030	.0001	.0001	.0001
13	107	1767.	284.	1287.	0.	0.	0.	.0097	.0018	.0079	.0001	.0001	.0001
14	115	900.	114.	734.	0.	0.	0.	.0119	.0018	.0108	.0000	.0000	.0000
15	125	913.	132.	822.	0.	0.	0.	.0103	.0018	.0102	.0000	.0000	.0000
16	135	329.	130.	408.	0.	0.	0.	.0036	.0017	.0049	.0001	.0000	.0001
17	150	11.	22.	23.	0.	0.	0.	.0002	.0004	.0004	.0000	.0000	.0000
18	155	1814.	2197.	1558.	155131.	99127.	53797.	.0000	.0000	.0000	.0000	.0000	.0000
19	167	560.	271.	598.	0.	0.	0.	.0180	.0298	.0251	.0002	.0002	.0004
20	175	137.	124.	126.	0.	0.	0.	.0181	.0701	.0424	.0002	.0003	.0006
44 21	190	113.	195.	85.	0.	0.	0.	.0199	.1175	.0649	.0002	.0002	.0006
22	205	100.	120.	40.	0.	0.	0.	.0236	.1036	.0632	.0002	.0002	.0006
23	220	229.	187.	64.	0.	0.	0.	.0253	.0765	.0630	.0002	.0001	.0006
24	240	266.	162.	85.	0.	0.	0.	.0196	.0410	.0630	.0003	.0001	.0006
25	255	234.	172.	399.	0.	0.	0.	.0000	.0000	.0631	.0004	.0002	.0006

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK
RMS MODAL SUMMARY
NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	PCS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	INTENSIFICATION FACTORS TRANSVERSE
1	1	5	BEG	RU	316.7	306.7	703.8	0.0	1.000	1.000
		10	END	RU	316.0	302.0	700.5	0.0	1.000	1.000
1	2	10	BEG	EL	316.0	666.9	918.8	0.0	2.208	2.208
		15	END	EL	-92.9	569.3	598.9	0.0	2.208	2.208
2	1	15	BEG	RU	-92.9	257.8	317.8	0.0	1.000	1.000
		20	END	RU	-92.9	154.1	241.4	0.0	1.000	1.000
3	1	20	BEG	RU	-70.9	205.6	249.8	0.0	1.000	1.000
		25	END	RU	-70.9	249.5	287.0	0.0	1.000	1.000
3	2	25	BEG	RU	-70.9	249.5	287.0	0.0	1.000	1.000
		30	END	RU	-70.9	500.3	520.0	0.0	1.000	1.000
4	1	30	BEG	RU	-70.9	500.3	520.0	0.0	1.000	1.000
		35	END	RU	-70.9	715.8	729.7	0.0	1.000	1.000
4	2	35	BEG	RU	-70.9	715.8	729.7	0.0	1.000	1.000
		40	END	RU	-70.9	936.5	947.2	0.0	1.000	1.000
5	1	40	BEG	RU	-70.9	936.5	947.2	0.0	1.000	1.000
		45	END	RU	-70.9	1069.0	1078.4	0.0	1.000	1.000
5	2	45	BEG	RU	-70.9	1069.0	1078.4	0.0	1.000	1.000
		50	END	RU	-70.9	1202.4	1210.8	0.0	1.000	1.000
6	1	50	BEG	RU	-70.9	1202.4	1210.8	0.0	1.000	1.000
		55	END	RU	-70.9	1168.6	1177.1	0.0	1.000	1.000
6	2	55	BEG	RU	-34.7	572.7	576.9	0.0	1.000	1.000
		57	END	RU	-34.7	555.2	559.5	0.0	1.000	1.000
7	1	57	BEG	RU	-70.9	1132.9	1141.8	0.0	1.000	1.000
		60	END	RU	-70.9	674.7	689.5	0.0	1.000	1.000
7	2	60	BEG	RU	-70.9	674.7	689.5	0.0	1.000	1.000
		65	END	RU	-70.9	230.6	270.8	0.0	1.000	1.000
7	3	65	BEG	RU	-70.9	230.6	270.8	0.0	1.000	1.000
		70	END	RU	-70.9	215.3	257.8	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEG	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
8	1	70	BEG	RU	-70.9	215.3	257.8	0.0	1.000	1.000
		75	END	RU	-70.9	221.8	263.3	0.0	1.000	1.000
8	2	75	BEG	EL	-70.9	489.8	509.9	0.0	2.208	2.208
		80	END	EL	248.3	1121.7	1226.9	0.0	2.208	2.208
8	3	80	BEG	RU	248.3	508.0	710.3	0.0	1.000	1.000
		85	END	RU	247.9	512.6	713.1	0.0	1.000	1.000
9	1	85	BEG	RU	54.5	113.3	157.3	0.0	1.000	1.000
		86	END	RU	49.7	176.4	202.5	0.0	1.000	1.000
9	2	86	BEG	RU	49.7	176.4	202.5	0.0	1.000	1.000
		87	END	RU	61.9	143.4	189.4	0.0	1.000	1.000
10	1	87	BEG	RU	17.5	58.1	67.8	0.0	1.000	1.000
		88	END	RU	20.7	66.7	78.5	0.0	1.000	1.000
10	2	88	BEG	RU	20.7	66.7	76.5	0.0	1.000	1.000
		90	END	RU	-17.6	42.6	55.2	0.0	1.000	1.000
11	1	90	BEG	RU	-79.7	193.3	250.5	0.0	1.000	1.000
		95	END	RU	-79.9	191.1	249.1	0.0	1.000	1.000
11	2	95	BEG	EL	-79.9	421.9	451.2	0.0	2.208	2.208
		100	END	EL	39.1	89.5	118.9	0.0	2.208	2.208
12	1	100	BEG	RU	39.1	40.5	88.2	0.0	1.000	1.000
		105	END	RU	39.1	95.4	123.4	0.0	1.000	1.000
12	2	105	BEG	RU	19.2	46.8	60.5	0.0	1.000	1.000
		107	END	RU	19.2	170.7	175.0	0.0	1.000	1.000
13	1	107	BEG	RU	39.1	348.4	357.1	0.0	1.000	1.000
		110	END	RU	39.1	380.5	388.5	0.0	1.000	1.000
13	2	110	BEG	RU	39.1	380.5	388.5	0.0	1.000	1.000
		115	END	RU	39.1	412.9	420.3	0.0	1.000	1.000
14	1	115	BEG	RU	39.1	412.9	420.3	0.0	1.000	1.000
		120	END	RU	39.1	374.5	382.6	0.0	1.000	1.000
14	2	120	BEG	RU	39.1	374.5	382.6	0.0	1.000	1.000
		125	END	RU	39.1	336.4	345.4	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	PCS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
15	1	125	BEG	RU	39.1	336.4	345.4	0.0	1.000	1.000
		130	END	RU	39.1	184.8	200.7	0.0	1.000	1.000
15	2	130	BEG	RU	39.1	184.8	200.7	0.0	1.000	1.000
		135	END	RU	39.1	54.1	95.2	0.0	1.000	1.000
16	1	135	BEG	RU	39.1	54.1	95.2	0.0	1.000	1.000
		140	END	RU	39.1	54.6	95.5	0.0	1.000	1.000
16	2	140	BEG	EL	39.1	120.6	143.8	0.0	2.208	2.208
		145	END	EL	-88.1	236.7	295.1	0.0	2.208	2.208
16	3	145	BEG	RU	-88.1	107.2	206.2	0.0	1.000	1.000
		150	END	RU	-88.3	109.3	207.7	0.0	1.000	1.000
17	1	150	BEG	RU	-88.3	109.3	207.7	0.0	1.000	1.000
		155	END	RU	-111.2	246.7	332.2	0.0	1.000	1.000
18	1	20	BEG	RU	-49.3	1622.7	1625.7	0.0	1.000	1.000
		160	END	RU	-49.3	1388.6	1392.1	0.0	1.000	1.000
18	2	160	BEG	RU	-49.3	1388.6	1392.1	0.0	1.000	1.000
		165	END	RU	-49.3	1168.4	1172.6	0.0	1.000	1.000
18	3	165	BEG	RU	-19.2	455.7	457.3	0.0	1.000	1.000
		167	END	RU	-19.2	358.0	360.1	0.0	1.000	1.000
19	1	167	BEG	RU	-49.3	918.0	923.3	0.0	1.000	1.000
		170	END	RU	-49.3	612.2	620.0	0.0	1.000	1.000
19	2	170	BEG	RU	-49.3	612.2	620.0	0.0	1.000	1.000
		175	END	RU	-49.3	318.9	333.8	0.0	1.000	1.000
20	1	175	BEG	RU	-49.3	318.9	333.8	0.0	1.000	1.000
		180	END	RU	-49.3	159.6	187.6	0.0	1.000	1.000
20	2	180	BEG	RU	-49.3	159.6	187.6	0.0	1.000	1.000
		185	END	RU	-49.3	225.9	246.4	0.0	1.000	1.000
20	3	185	BEG	EL	-49.3	401.3	413.3	0.0	1.777	1.777
		190	END	EL	77.2	520.5	542.9	0.0	1.777	1.777
21	1	190	BEG	RU	76.9	293.2	331.1	0.0	1.000	1.000
		195	END	RU	76.9	293.1	331.0	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 X SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	PCS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
21	2	195	BEG	RU	76.9	293.1	331.0	0.0	1.000	1.000
		200	END	RU	77.3	292.6	330.9	0.0	1.000	1.000
21	3	200	BEG	EL	77.3	519.9	542.4	0.0	1.777	1.777
		205	END	EL	93.4	306.7	359.1	0.0	1.777	1.777
22	1	205	BEG	RU	93.4	172.6	254.3	0.0	1.000	1.000
		210	END	RU	93.4	140.0	233.4	0.0	1.000	1.000
22	2	210	BEG	RU	93.4	140.0	233.4	0.0	1.000	1.000
		215	END	RU	93.4	130.2	227.7	0.0	1.000	1.000
22	3	215	BEG	EL	93.4	231.4	297.4	0.0	1.777	1.777
		220	END	EL	.0	568.8	568.8	0.0	1.777	1.777
23	1	220	BEG	RU	.0	320.1	320.1	0.0	1.000	1.000
		225	END	RU	.0	320.3	320.3	0.0	1.000	1.000
23	2	225	BEG	RU	.0	320.3	320.3	0.0	1.000	1.000
		230	END	RU	.0	322.0	322.0	0.0	1.000	1.000
23	3	230	BEG	RU	.0	322.0	322.0	0.0	1.000	1.000
		235	END	RU	.0	325.3	325.3	0.0	1.000	1.000
23	4	235	BEG	RU	.0	325.3	325.3	0.0	1.000	1.000
		240	END	RU	.0	330.2	330.2	0.0	1.000	1.000
24	1	240	BEG	RU	0.0	330.2	330.2	0.0	1.000	1.000
		245	END	RU	0.0	220.1	220.1	0.0	1.000	1.000
24	2	245	BEG	RU	0.0	220.1	220.1	0.0	1.000	1.000
		250	END	RU	0.0	110.1	110.1	0.0	1.000	1.000
24	3	250	BEG	RU	0.0	110.1	110.1	0.0	1.000	1.000
		255	END	RU	0.0	.0	.0	0.0	1.000	1.000

VERSION - ADLPIPE- JULY, 1975
REFERENCE- ADLPIPE MANUAL, DATED JANUARY 1975

FEATURES OF ADLPIPE-

1. ASME SECTION III , CLASS 1 STRESS ANALYSIS AND STRESS REPORT PER NB 3600
2. ASME SECTION III , CLASS 1 USAGE FACTOR CALCULATION
3. ASME SECTION III , CLASS 2 AND 3 STRESS ANALYSIS AND STRESS REPORT PER WINTER 1972 ADDENDA
4. ANSI B31.1 , 1967 AND 1973 STRESS ANALYSIS AND REPORT
5. ISOMETRIC PLOT WITH SEQUENCE NUMBERS
6. ISOMETRIC PLOTTING WITH OR WITHOUT DIMENSIONS
7. PLAN AND ELEVATION DRAWINGS WITH OR WITHOUT DIMENSIONS
8. STEREOSCOPIC VIEWS OF DEFORMED PIPING
9. SKEW RESTRAINT ADDED (SEE REFERENCED INPUT MANUAL P. 39)
10. REVISED TAPE 14 FILE STRUCTURE (SEE REFERENCED INPUT MANUAL P. 43)
11. OPTIONAL ABSOLUTE SUM ON CLOSELY SPACED MODES
    (ACTIVATE BY SPECIFYING PERCENT RANGE OF MODES TO BE ABSOLUTELY SUMMED IN Z(2) FIELD ON SHOCK CARD)
12. HANGER SUMMARY IS AUTOMATICALLY PROVIDED

FOR FURTHER INFORMATION OR COMMENT CONTACT-
I. W. DINGWELL
A. D. LITTLE, INC
ACORN PARK
CAMBRIDGE, MASS 02140
TEL (617) 864-5770

COMPILED INPUT DATA

SA	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B3	1	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SH	1	20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI	0	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FR	1	6	.1000	.3000	.5000	.7000	.8000	.9000
FR	7	12	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000
FR	13	17	8.0000	10.0000	20.0000	50.0000	100.0000	0.0000
G	1	6	.0360	.0390	.0470	.0620	.0730	.0800
G	7	12	.0860	.1600	.2130	.2530	.2800	.2800
G	13	17	.2600	.2300	.1600	.0930	.0730	0.0000
EN	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

PIPE SYSTEM GEOMETRY

NUMBER OF NETWORK POINTS = 25
NUMBER OF SECTIONS = 24
ORDER OF DYNAMICAL STIFFNESS MATRIX = 64

NUMBER OF MEMBERS = 56
ORDER OF STIFFNESS MATRIX = 66

NETWORK POINT RESTRAINTS

		TRANSLATION			ROTATION		
NETWORK PT.	SEQ	X	Y	Z	X	Y	Z
1	5	RST	RST	RST	RST	RST	RST
2	15	FREE	FREE	FREE	FREE	FREE	FREE
3	20	FREE	FREE	FREE	FREE	FREE	FREE
4	30	FREE	FREE	FREE	FREE	FREE	FREE
5	40	FREE	FREE	FREE	FREE	FREE	FREE
6	50	FREE	FREE	FREE	FREE	FREE	FREE
7	57	FREE	FREE	FREE	FREE	FREE	FREE
8	70	FREE	FREE	FREE	FREE	FREE	FREE
9	85	FREE	FREE	FREE	FREE	FREE	FREE
10	87	RST	RST	RST	RST	RST	RST
11	90	FREE	FREE	FREE	FREE	FREE	FREE
12	100	FREE	FREE	FREE	FREE	FREE	FREE
13	107	FREE	FREE	FREE	FREE	FREE	FREE
14	115	FREE	FREE	FREE	FREE	FREE	FREE
15	125	FREE	FREE	FREE	FREE	FREE	FREE
16	135	FREE	FREE	FREE	FREE	FREE	FREE
17	150	FREE	FREE	FREE	FREE	FREE	FREE
18	155	RST	RST	RST	RST	RST	RST
19	167	FREE	FREE	FREE	FREE	FREE	FREE
20	175	FREE	FREE	FREE	FREE	FREE	FREE
21	190	FREE	FREE	FREE	FREE	FREE	FREE
22	205	FREE	FREE	FREE	FREE	FREE	FREE
23	220	FREE	FREE	FREE	FREE	FREE	FREE
24	240	FREE	FREE	FREE	FREE	FREE	FREE
25	255	RST	RST	FREE	FREE	FREE	FREE

NETWORK POINT MOVEMENTS (INCHES)

		TRANSLATION			ROTATION		
NETWORK PT.	SEQ	X	Y	Z	X	Y	Z

NO MOVEMENTS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

RESPONSE SPECTRA

FREQUENCY	Y AMPLITUDE
.10	35.1990
.30	4.2369
.50	1.8382
.70	1.2372
.80	1.1152
.90	.9657
1.00	.8409
2.00	.3911
3.00	.2314
4.00	.1546
5.00	.1095
6.00	.0760
8.00	.0397
10.00	.0225
20.00	.0039
50.00	.0004
100.00	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

* NOTE *

FOR CURVED MEMBERS, QUANTITIES LISTED UNDER INITIAL CO-ORDS ARE CO-ORDS OF ARC CENTER THE BRACKETED NUMBERS WHICH FOLLOW ARE THE ARC RADIUS (IN), INCLUDED ANGLE (DEG).

* NOTE *

FOR THIS VERSION, CO-ORD DIMENSIONS IN FEET ALL OTHER QUATITIES, RADIUS, THICKNESS, STRESS MOMENTS, ETC. ARE DIMENSIONED IN INCHES.

PIPE SYSTEM GEOMETRY

SECTION 1 CONNECTS SEQUENCE POINTS 5 AND 15 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	5	10	14.00	1.050	2.59	274.75	12.19	2.60	274.75	12.24	.27E+08	0.00	0.	44.18
2	EL/EL	10	15	14.00	1.050	2.60	271.00	12.24	(45.000	90.000)		.27E+08	0.00	0.	44.18

SECTION 2 CONNECTS SEQUENCE POINTS 15 AND 20 AND HAS 1 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	15	20	14.00	1.050	3.38	271.00	15.91	3.38	269.25	15.91	.27E+08	0.00	0.	44.18

SECTION 3 CONNECTS SEQUENCE POINTS 20 AND 30 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	20	25	14.00	1.050	3.38	269.25	15.91	3.38	266.29	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	25	30	14.00	1.050	3.38	266.29	15.91	3.38	263.32	15.91	.27E+08	0.00	0.	44.18

SECTION 4 CONNECTS SEQUENCE POINTS 30 AND 40 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	30	35	14.00	1.050	3.38	203.32	15.91	3.38	260.36	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	35	40	14.00	1.050	3.38	260.36	15.91	3.38	257.39	15.91	.27E+08	0.00	0.	44.18

SECTION 5 CONNECTS SEQUENCE POINTS 40 AND 50 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	40	45	14.00	1.050	3.38	257.39	15.91	3.38	254.43	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	45	50	14.00	1.050	3.38	254.43	15.91	3.38	251.46	15.91	.27E+08	0.00	0.	44.18

SECTION 6 CONNECTS SEQUENCE POINTS 50 AND 57 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	50	55	14.00	1.050	3.38	251.46	15.91	3.38	246.46	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	55	57	15.00	2.050	3.38	246.46	15.91	3.38	241.04	15.91	.27E+08	0.00	0.	215.20

SECTION 7 CONNECTS SEQUENCE POINTS 57 AND 70 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	57	60	14.00	1.050	3.38	241.04	15.91	3.38	237.74	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	60	65	14.00	1.050	3.38	237.74	15.91	3.38	234.44	15.91	.27E+08	0.00	0.	44.18
3	RU/RU	65	70	14.00	1.050	3.38	234.44	15.91	3.38	231.64	15.91	.27E+08	0.00	0.	44.18

SECTION 8 CONNECTS SEQUENCE POINTS 70 AND 85 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	70	75	14.00	1.050	3.38	231.64	15.91	3.38	231.59	15.91	.27E+08	0.00	0.	44.18
2	EL/EL	75	80	14.00	1.050	7.11	231.59	15.49	(45.000	90.000)		.27E+08	0.00	0.	44.18
3	RU/RU	80	85	14.00	1.050	7.11	227.84	15.49	7.16	227.84	15.49	.27E+08	0.00	0.	44.18

SECTION 9 CONNECTS SEQUENCE POINTS 85 AND 87 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	85	86	15.00	10.000	7.16	227.84	15.49	9.42	227.84	15.23	.27E+08	0.00	0.	324.36
2	RU/RU	86	87	15.00	10.000	9.42	227.84	15.23	9.42	232.17	15.23	.27E+08	0.00	0.	324.36

SECTION10 CONNECTS SEQUENCE POINTS 87 AND 90 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	87	88	15.00	10.000	9.42	232.17	15.23	12.04	232.17	15.71	.27E+08	0.00	0.	324.36
2	RU/RU	88	90	15.00	10.000	12.04	232.17	15.71	12.48	232.17	13.30	.27E+08	0.00	0.	324.36

SECTION11 CONNECTS SEQUENCE POINTS 90 AND 100 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	90	95	14.00	1.050	12.48	232.17	13.30	12.48	232.17	13.25	.27E+08	0.00	0.	44.18
2	EL/EL	95	100	14.00	1.050	12.48	235.92	13.25	(45.000	90.000)		.27E+08	0.00	0.	44.18

SECTION12 CONNECTS SEQUENCE POINTS 100 AND 107 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	100	105	14.00	1.050	13.15	235.92	9.56	13.15	237.17	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	105	107	15.00	2.050	13.15	237.17	9.56	13.15	241.75	9.56	.27E+08	0.00	0.	173.10

SECTION13 CONNECTS SEQUENCE POINTS 107 AND 115 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	107	110	14.00	1.050	13.15	241.75	9.56	13.15	244.71	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	110	115	14.00	1.050	13.15	244.71	9.56	13.15	247.66	9.56	.27E+08	0.00	0.	44.18

SECTION14 CONNECTS SEQUENCE POINTS 115 AND 125 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	115	120	14.00	1.050	13.15	247.66	9.56	13.15	250.62	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	120	125	14.00	1.050	13.15	250.62	9.56	13.15	253.57	9.56	.27E+08	0.00	0.	44.18

SECTION15 CONNECTS SEQUENCE POINTS 125 AND 135 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	125	130	14.00	1.050	13.15	253.57	9.56	13.15	257.57	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	130	135	14.00	1.050	13.15	257.57	9.56	13.15	261.57	9.56	.27E+08	0.00	0.	44.18

SECTION16 CONNECTS SEQUENCE POINTS 135 AND 150 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	135	140	14.00	1.050	13.15	261.57	9.56	13.15	262.64	9.56	.27E+08	0.00	0.	44.18
2	EL/EL	140	145	14.00	1.050	10.12	262.64	7.35	(45.000	75.997	)	.27E+08	0.00	0.	44.18
3	RU/RU	145	150	14.00	1.050	10.85	266.28	7.89	10.81	266.29	7.85	.27E+08	0.00	0.	44.18

SECTION17 CONNECTS SEQUENCE POINTS 150 AND 155 AND HAS 1 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	150	155	14.00	1.050	10.81	266.29	7.85	8.47	267.02	6.15	.27E+08	0.00	0.	44.18

SECTION18 CONNECTS SEQUENCE POINTS 20 AND 167 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	20	160	7.00	.753	3.38	269.25	15.91	.80	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	160	165	7.00	.753	.80	269.25	15.91	-1.77	269.25	15.91	.27E+08	0.00	0.	13.18
3	RU/RU	165	167	8.00	1.753	-1.77	269.25	15.91	-5.14	269.25	15.91	.27E+08	0.00	0.	98.17

SECTION19 CONNECTS SEQUENCE POINTS 167 AND 175 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	167	170	7.00	.753	-5.14	269.25	15.91	-8.48	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	170	175	7.00	.753	-8.48	269.25	15.91	-11.82	269.25	15.91	.27E+08	0.00	0.	13.18

SECTION20 CONNECTS SEQUENCE POINTS 175 AND 190 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	175	180	7.00	.753	-11.82	269.25	15.91	-15.17	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	180	185	7.00	.753	-15.17	269.25	15.91	-16.76	269.25	15.91	.27E+08	0.00	0.	13.18
3	EL/EL	185	190	7.00	.753	-16.76	269.37	17.65	(21.000	90.000)		.27E+08	0.00	0.	13.18

SECTION21 CONNECTS SEQUENCE POINTS 190 AND 205 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	190	195	7.00	.753	-18.51	269.37	17.65	-18.51	269.38	17.68	.27E+08	0.00	0.	13.16
2	RU/RU	195	200	7.00	.753	-18.51	269.38	17.68	-18.51	269.38	17.71	.27E+08	0.00	0.	13.18
3	EL/EL	200	205	7.00	.753	-16.76	269.38	17.71	(21.000	90.000)		.27E+08	0.00	0.	13.18

SECTION22 CONNECTS SEQUENCE POINTS 205 AND 220 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	205	210	7.00	.753	-16.76	269.50	19.45	-15.88	269.50	19.45	.27E+08	0.00	0.	13.18
2	RU/RU	210	215	7.00	.753	-15.88	269.50	19.45	-15.01	269.50	19.45	.27E+08	0.00	0.	13.18
3	EL/EL	215	220	7.00	.753	-15.01	269.50	21.20	(21.000	90.000)		.27E+08	0.00	0.	13.18

SECTION23 CONNECTS SEQUENCE POINTS 220 AND 240 AND HAS 4 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	220	225	7.00	.753	-13.26	269.50	21.20	-13.26	269.50	22.57	.27E+08	0.00	0.	13.18
2	RU/RU	225	230	7.00	.753	-13.26	269.50	22.57	-13.26	269.50	25.68	.27E+08	0.00	0.	13.18

3	RU/RU	230	235	7.00	.753	-13.26	269.50	25.68	-13.26	269.50	28.79	.27E+08	0.00	0.	13.18
4	RU/RU	235	240	7.00	.753	-13.26	269.50	28.79	-13.26	269.50	31.91	.27E+08	0.00	0.	13.18

SECTION24 CONNECTS SEQUENCE POINTS 240 AND 255 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	240	245	7.00	.753	-13.26	269.50	31.91	-13.26	269.50	35.02	.27E+08	0.00	0.	13.18
2	RU/RU	245	250	7.00	.753	-13.26	269.50	35.02	-13.26	269.50	38.13	.27E+08	0.00	0.	13.18
3	RU/RU	250	255	7.00	.753	-13.26	269.50	38.13	-13.26	269.50	41.25	.27E+08	0.00	0.	13.18
	WEIGHT					.66E+04									

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

MODAL DEFLECTIONS FOR 20 FREQUENCIES
DEFLECTIONS INCLUDE SHOCK SPECTRA DISPLACEMENTS AND MODAL PARTICIPATION FACTORS

		MODE AND FREQUENCY									
		1	2	3	4	5	6	7	8	9	10
LUMP	DIR	1.927	3.721	7.612	8.611	11.594	13.072	13.839	15.604	15.926	18.087
15	1	.000	-.002	.001	.000	-.000	.000	0.000	0.000	.000	-.000
15	2	.000	-.000	.001	.000	.000	-.000	0.000	0.000	.000	.000
15	3	.000	-.000	.001	-.000	.000	-.000	0.000	0.000	.000	.000
20	1	.000	-.005	.002	.000	-.000	.000	0.000	0.000	.000	-.000
20	2	.000	-.000	.001	.000	.000	-.000	0.000	0.000	.000	.000
20	3	.000	-.000	.002	-.000	.000	-.000	0.000	0.000	.000	.000
30	1	.000	-.011	.004	.001	.000	.000	0.000	0.000	-.000	-.001
30	2	.000	-.000	.001	.000	.000	-.000	0.000	0.000	.000	.000
30	3	.000	-.001	.004	-.001	.000	-.000	0.000	0.000	.000	.000
40	1	.000	-.014	.006	.001	.000	-.000	0.000	0.000	-.000	-.000
40	2	.000	-.000	.001	.000	.000	-.000	0.000	0.000	.000	.000
40	3	.000	-.001	.006	-.001	.000	-.000	0.000	0.000	.000	.000
50	1	.000	-.014	.006	.001	.000	-.000	0.000	0.000	-.000	-.000
50	2	.000	-.000	.001	.000	.000	-.000	0.000	0.000	.000	.000
50	3	.000	-.001	.007	-.001	.000	-.000	0.000	0.000	-.000	.000
57	1	.000	-.009	.005	.001	.000	-.000	0.000	0.000	-.000	.001
57	2	.000	-.000	.001	.000	.000	-.000	0.000	0.000	.000	.000
57	3	.000	-.001	.006	-.001	-.000	-.000	0.000	0.000	-.000	-.000
70	1	.000	-.002	.001	.000	.000	-.000	0.000	0.000	.000	.000
70	2	.000	-.000	.001	.000	.000	-.000	0.000	0.000	.000	.000
70	3	.000	-.000	.002	-.000	-.000	-.000	0.000	0.000	-.000	-.000
85	1	-.000	-.000	-.000	.000	.000	-.000	0.000	0.000	-.000	-.000
85	2	.000	.000	.000	-.000	-.000	-.000	0.000	0.000	.000	.000
85	3	.000	-.000	.000	-.000	-.000	-.000	0.000	0.000	-.000	-.000
90	1	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
90	2	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
90	3	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
100	1	0.000	0.000	0.000	0.000	0.000	0.000	.001	-.000	0.000	0.000
100	2	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	0.000
100	3	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	0.000
107	1	0.000	0.000	0.000	0.000	0.000	0.000	.001	-.000	0.000	0.000
107	2	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	0.000
107	3	0.000	0.000	0.000	0.000	0.000	0.000	.002	.000	0.000	0.000
115	1	0.000	0.000	0.000	0.000	0.000	0.000	.002	-.001	0.000	0.000
115	2	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	0.000
115	3	0.000	0.000	0.000	0.000	0.000	0.000	.003	.000	0.000	0.000
125	1	0.000	0.000	0.000	0.000	0.000	0.000	.001	-.001	0.000	0.000
125	2	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	0.000
125	3	0.000	0.000	0.000	0.000	0.000	0.000	.003	.000	0.000	0.000
135	1	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
135	2	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	0.000
135	3	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	0.000
150	1	0.000	0.000	0.000	0.000	0.000	0.000	-.000	-.000	0.000	0.000
150	2	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
150	3	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
167	1	.000	-.005	.002	.000	-.000	.000	0.000	0.000	.000	-.000
167	2	-.000	.072	-.000	-.000	-.000	-.000	0.000	0.000	.000	.004
167	3	.000	-.001	.003	-.000	-.000	.000	0.000	0.000	.002	-.001

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

167	2	-.000	.072	-.000	-.000	-.000	-.000	0.000	0.000	.000	.004
167	[illegible]	[illegible]	.001	.003	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.002	-.001

175	1	.000	-.005	.002	.000	-.000	.000	0.000	0.000	.000	-.000
175	2	-.006	.170	.001	.000	-.000	-.000	0.000	0.000	.000	.002
175	3	.006	-.000	.001	.000	-.001	.000	0.000	0.000	.002	-.001
190	1	.000	-.003	.002	.001	-.000	.000	0.000	0.000	-.001	-.000
190	2	-.000	.281	.003	.001	-.000	-.001	0.000	0.000	-.000	-.006
190	3	.001	.002	-.000	.000	-.001	.000	0.000	0.000	-.000	.001
205	1	.000	-.000	.002	.001	-.001	.000	0.000	0.000	-.001	-.000
205	2	-.000	.247	.003	.001	-.000	-.000	0.000	0.000	-.000	-.004
205	3	.001	.002	-.001	.000	-.001	.000	0.000	0.000	-.000	.001
220	1	.000	-.000	.002	.001	-.001	.000	0.000	0.000	-.001	.000
220	2	-.006	.182	.002	.000	.000	.001	0.000	0.000	-.000	.001
220	3	.001	.002	-.001	-.000	.000	-.000	0.000	0.000	-.000	.000
240	1	.000	-.000	.002	.000	-.002	.000	0.000	0.000	-.001	.001
240	2	-.000	.095	.002	.000	.000	.001	0.000	0.000	-.000	-.000
240	3	.001	.002	-.001	-.000	.000	-.000	0.000	0.000	-.000	.000
255	3	.001	.002	-.001	-.000	.000	-.000	0.000	0.000	-.000	.000

MODE AND FREQUENCY

		11	12	13	14	15	16	17	18	19	20
LUMR	DIR	21.273	23.561	27.611	28.677	31.573	32.317	38.573	41.836	47.390	48.929

MODAL DEFLECTIONS ARE LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 1, FREQUENCY 1.93

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 2 FREQUENCY 3.72

SC	NE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-210.	-306.	-29.	14651.	-22006.	88154.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	210.	306.	29.	-14472.	21887.	-88192.	.0000	.0000	-.0000	-.0000	.0000	-.0000
1	2	15	END	210.	306.	29.	320.	12904.	-100519.	-.0025	-.0003	-.0001	.0000	-.0000	-.0001
2	1	15	BEG	-218.	-307.	-30.	-320.	-12904.	100519.	-.0025	-.0003	-.0001	.0000	-.0000	-.0001
2	1	20	END	218.	307.	30.	947.	12904.	-105086.	-.0049	-.0003	-.0003	.0000	-.0000	-.0001
3	1	20	BEG	-277.	1223.	1.	5976.	-4750.	-178993.	-.0049	-.0003	-.0003	.0000	-.0000	-.0001
3	1	25	END	277.	-1223.	-1.	-6021.	4750.	169123.	-.0086	-.0003	-.0005	.0000	-.0000	-.0001
3	2	30	END	277.	-1223.	-1.	-6065.	4750.	159252.	-.0114	-.0003	-.0006	.0000	-.0000	-.0001
4	1	30	BEG	-328.	1221.	-2.	6065.	-4750.	-159252.	-.0114	-.0003	-.0006	.0000	-.0000	-.0001
4	1	35	END	328.	-1221.	2.	-6011.	4750.	147573.	-.0133	-.0003	-.0007	.0000	-.0000	-.0000
4	2	40	END	328.	-1221.	2.	-5957.	4750.	135895.	-.0143	-.0004	-.0008	.0000	-.0000	-.0000
5	1	40	BEG	-392.	1220.	-5.	5957.	-4750.	-135895.	-.0143	-.0004	-.0008	.0000	-.0000	-.0000
5	1	45	END	392.	-1220.	5.	-5772.	4750.	121949.	-.0145	-.0004	-.0009	.0000	-.0000	.0000
5	2	50	END	392.	-1220.	5.	-5587.	4750.	108003.	-.0141	-.0004	-.0009	.0000	-.0000	.0000
6	1	50	BEG	-487.	1217.	-11.	5587.	-4750.	-108003.	-.0141	-.0004	-.0009	.0000	-.0000	.0000
6	1	55	END	487.	-1217.	11.	-4906.	4750.	78786.	-.0120	-.0004	-.0009	-.0000	-.0000	.0000
6	2	57	END	487.	-1217.	11.	-4168.	4750.	47137.	-.0086	-.0004	-.0008	-.0000	-.0000	.0001
7	1	57	BEG	-682.	1207.	-29.	4168.	-4750.	-47137.	-.0086	-.0004	-.0008	-.0000	-.0000	.0001
7	1	60	END	682.	-1207.	29.	-3027.	4750.	20123.	-.0063	-.0005	-.0007	-.0000	-.0000	.0001
7	2	65	END	682.	-1207.	29.	-1885.	4750.	-6891.	-.0038	-.0005	-.0006	-.0000	-.0000	.0001
7	3	70	END	682.	-1207.	29.	-915.	4750.	-29830.	-.0017	-.0005	-.0005	-.0000	-.0000	.0001
8	1	70	BEG	-691.	1204.	-32.	915.	-4750.	29830.	-.0017	-.0005	-.0005	-.0000	-.0000	.0001
8	1	75	END	691.	-1204.	32.	-896.	4750.	-30245.	-.0016	-.0005	-.0005	-.0000	-.0000	.0001
8	2	80	END	691.	-1204.	32.	6457.	9567.	-7485.	-.0001	.0001	-.0000	-.0000	-.0000	-.0000

8	2	80	END	691.	-1204.	32.	6457.	9567.	-7485.	-.0001	.0001	-.0000	-.0000	-.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	691.	-1204.	32.	6536.	9631.	-6769.	-.0001	.0001	-.0000	-.0000	-.0000	-.0000
9	1	85	BEG	-693.	1206.	-32.	-6536.	-9631.	6769.	-.0001	.0001	-.0000	-.0000	-.0000	-.0000
9	1	86	END	693.	-1206.	32.	10241.	12625.	25950.	-.0001	.0000	.0000	-.0000	-.0000	-.0000
9	2	87	END	693.	-1206.	32.	8583.	12625.	61982.	.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	41.	-1531.	-32.	-6923.	-8154.	284079.	-.0049	-.0003	-.0003	.0000	-.0000	-.0001
18	1	160	END	-41.	1531.	32.	6923.	7161.	-236761.	-.0049	.0105	-.0008	.0000	-.0000	-.0005
18	2	165	END	-41.	1531.	32.	6923.	6168.	-189483.	-.0049	.0332	-.0010	.0000	-.0000	-.0009
18	3	167	END	-41.	1531.	32.	6923.	4869.	-127582.	-.0049	.0720	-.0010	.0000	.0000	-.0010
19	1	167	BEG	9.	-1057.	-38.	-6923.	-4869.	127582.	-.0049	.0720	-.0010	.0000	.0000	-.0010
19	1	170	END	-9.	1057.	38.	6923.	3328.	-85177.	-.0049	.1176	-.0006	.0001	.0000	-.0012
19	2	175	END	-9.	1057.	38.	6923.	1788.	-42771.	-.0049	.1705	-.0000	.0001	.0000	-.0014
20	1	175	BEG	1.	-783.	-38.	-6923.	-1788.	42771.	-.0049	.1705	-.0000	.0001	.0000	-.0014
20	1	180	END	-1.	783.	38.	6923.	245.	-11369.	-.0049	.2270	.0007	.0001	.0000	-.0014
20	2	185	END	-1.	783.	38.	6923.	-490.	3590.	-.0049	.2545	.0011	.0001	.0000	-.0014
20	3	190	END	-1.	783.	38.	23267.	-1277.	20032.	-.0025	.2809	.0017	.0002	.0000	-.0013
21	1	190	BEG	-2.	-453.	-37.	-23267.	1277.	-20032.	-.0025	.2809	.0017	.0002	.0000	-.0013
21	1	195	END	2.	453.	37.	23424.	-1278.	20032.	-.0025	.2808	.0017	.0002	.0000	-.0013
21	2	200	END	2.	453.	37.	23583.	-1278.	20032.	-.0025	.2807	.0017	.0002	.0000	-.0013
21	3	205	END	2.	453.	37.	33016.	-553.	10524.	-.0004	.2472	.0021	.0003	-.0000	-.0013
22	1	205	BEG	-2.	-251.	-35.	-33016.	553.	-10524.	-.0004	.2472	.0021	.0003	-.0000	-.0013
22	1	210	END	2.	251.	35.	33016.	-188.	7893.	-.0004	.2334	.0022	.0004	-.0000	-.0013
22	2	215	END	2.	251.	35.	33016.	176.	5262.	-.0004	.2196	.0023	.0004	-.0000	-.0013
22	3	220	END	2.	251.	35.	38278.	858.	0.	-.0005	.1821	.0024	.0006	-.0000	-.0014
23	1	220	BEG	-3.	59.	-31.	-38278.	-858.	0.	-.0005	.1821	.0024	.0006	-.0000	-.0014
23	1	225	END	3.	-59.	31.	37305.	806.	-0.	-.0005	.1727	.0024	.0006	-.0000	-.0014
23	2	230	END	3.	-59.	31.	35084.	689.	-0.	-.0005	.1495	.0024	.0007	.0000	-.0014

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	3.	-59.	31.	32863.	572.	-0.	-.0005	.1236	.0024	.0007	.0000	-.0014
23	4	240	END	3.	-59.	31.	30642.	454.	-0.	-.0004	.0953	.0024	.0008	.0000	-.0014
24	1	240	BEG	-4.	273.	-25.	-30642.	-454.	0.	-.0004	.0953	.0024	.0008	.0000	-.0014
24	1	245	END	4.	-273.	25.	20428.	303.	0.	-.0003	.0648	.0024	.0008	.0000	-.0014
24	2	250	END	4.	-273.	25.	10214.	151.	0.	-.0002	.0326	.0024	.0009	.0000	-.0014
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	-.0006	.0024	.0009	.0000	-.0014
24	3	255	END	4.	-273.	25.	-0.	-0.	0.	.0000	-.0006	.0024	.0009	.0000	-.0014

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 2 FREQUENCY 3.72

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-210.	-306.	-29.	14651.	-22006.	88154.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-7.	-1.	-0.	-0.	0.	0.	-.0025	-.0003	-.0001	.0000	-.0000	-.0001
3	20	-19.	-1.	-1.	-0.	-0.	0.	-.0049	-.0003	-.0003	.0000	-.0000	-.0001
4	30	-51.	-1.	-3.	-0.	0.	0.	-.0114	-.0003	-.0006	.0000	-.0000	-.0001
5	40	-66.	-2.	-4.	-0.	-0.	0.	-.0143	-.0004	-.0008	.0000	-.0000	-.0000
6	50	-95.	-3.	-6.	0.	0.	-0.	-.0141	-.0004	-.0009	.0000	-.0000	.0000
7	57	-195.	-10.	-17.	0.	-0.	-0.	-.0086	-.0004	-.0008	-.0000	-.0000	.0001
8	70	-10.	-3.	-3.	0.	0.	-0.	-.0017	-.0005	-.0005	-.0000	-.0000	.0001
9	85	-2.	2.	-0.	0.	0.	0.	-.0001	.0001	-.0000	-.0000	-.0000	-.0000
10	87	693.	-1206.	32.	8583.	12625.	61982.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-32.	473.	-6.	-0.	0.	0.	-.0049	.0720	-.0010	.0000	.0000	-.0010
20	175	-8.	274.	-0.	-0.	0.	0.	-.0049	.1705	-.0000	.0001	.0000	-.0014
21	190	-3.	330.	2.	0.	-0.	-0.	-.0025	.2809	.0017	.0002	.0000	-.0013
22	205	-0.	202.	2.	-0.	0.	0.	-.0004	.2472	.0021	.0003	-.0000	-.0013
23	220	-1.	310.	4.	-0.	0.	0.	-.0005	.1821	.0024	.0006	-.0000	-.0014
24	240	-1.	214.	5.	-0.	-0.	-0.	-.0004	.0953	.0024	.0008	.0000	-.0014
25	255	4.	-273.	25.	-0.	-0.	0.	.0000	-.0000	.0024	.0009	.0000	-.0014

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

25 255 [redacted] 4. [redacted] 0. [redacted] 0. [redacted] 0. [redacted] 000 [redacted] 0000 [redacted] 0020 [redacted] 000 [redacted] ,000 [redacted] ,00

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 2 FREQUENCY 3.72

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

LOADS
SHOCK

MODE 3 FREQUENCY 7.61

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-520.	-21.	-414.	23817.	-18772.	-29893.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	520.	21.	414.	-23805.	18518.	29890.	.0000	.0000	.0000	-.0000	.0000	.0000
1	2	15	END	520.	21.	414.	-4260.	-494.	6299.	.0015	.0009	.0012	-.0000	.0000	.0000
2	1	15	BEG	-502.	-10.	-400.	4260.	494.	-6299.	.0015	.0009	.0012	-.0000	.0000	.0000
2	1	20	END	502.	10.	400.	4136.	-494.	-4250.	.0021	.0009	.0020	-.0000	.0000	.0000
3	1	20	BEG	-365.	41.	-354.	-3674.	-4760.	-4650.	.0021	.0009	.0020	-.0000	.0000	.0000
3	1	25	END	365.	-41.	354.	16283.	4760.	-8343.	.0032	.0009	.0032	-.0000	.0000	.0000
3	2	30	END	365.	-41.	354.	28891.	4760.	-21336.	.0042	.0009	.0045	-.0000	.0000	.0000
4	1	30	BEG	-287.	58.	-271.	-28891.	-4760.	21336.	.0042	.0009	.0045	-.0000	.0000	.0000
4	1	35	END	287.	-58.	271.	38548.	4760.	-31553.	.0051	.0009	.0055	-.0000	.0000	.0000
4	2	40	END	287.	-58.	271.	48206.	4760.	-41769.	.0058	.0009	.0063	-.0000	.0000	.0000
5	1	40	BEG	-179.	74.	-154.	-48206.	-4760.	41769.	.0058	.0009	.0063	-.0000	.0000	.0000
5	1	45	END	179.	-74.	154.	53687.	4760.	-48138.	.0063	.0009	.0068	-.0000	.0000	.0000
5	2	50	END	179.	-74.	154.	59167.	4760.	-54507.	.0065	.0009	.0071	-.0000	.0000	.0000
6	1	50	BEG	0.	99.	45.	-59167.	-4760.	54507.	.0065	.0009	.0071	-.0000	.0000	.0000
6	1	55	END	-0.	-99.	-45.	56458.	4760.	-54280.	.0061	.0009	.0067	.0000	.0000	-.0000
6	2	57	END	-0.	-99.	-45.	53523.	4760.	-54035.	.0050	.0008	.0055	.0000	.0000	-.0000
7	1	57	BEG	473.	183.	565.	-53523.	-4760.	54035.	.0050	.0009	.0055	.0000	.0000	-.0000
7	1	60	END	-473.	-183.	-565.	31139.	4760.	-35280.	.0039	.0009	.0044	.0000	.0000	-.0000
7	2	65	END	-473.	-183.	-565.	8756.	4760.	-16528.	.0026	.0009	.0031	.0000	.0000	-.0000
7	3	70	END	-473.	-183.	-565.	-10252.	4760.	-597.	.0014	.0009	.0020	.0000	.0000	-.0000
8	1	70	BEG	508.	204.	613.	10252.	-4760.	597.	.0014	.0009	.0020	.0000	.0000	-.0000
8	1	75	END	-508.	-204.	-613.	-10620.	4760.	-292.	.0014	.0009	.0020	.0000	.0000	-.0000
8	2	80	END	-508.	-204.	-613.	-37210.	-25175.	31725.	-.0000	.0000	.0001	.0000	.0000	-.0000

6	2	80 END	-508.	-204.	-613.	-37210.	-25175.	31725.	-.0000	.0000	.0001	.0000	.0000	-.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	BX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-508.	-204.	-613.	-37196.	-25573.	31847.	-.0000	.0000	.0001	.0000	.0000	-.0000
9	1	85	BEG	508.	208.	620.	37196.	25573.	-31847.	-.0000	.0000	.0001	.0000	.0000	-.0000
9	1	86	END	-508.	-208.	-620.	-36557.	-43967.	37491.	-.0000	.0000	-.0000	.0000	.0000	-.0000
9	2	87	END	-508.	-208.	-620.	-4295.	-43967.	11087.	.0000	.0000	.0000	.0000	.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-104.	-37.	-14.	-462.	5254.	6900.	.0021	.0009	.0020	-.0000	.0000	.0000
18	1	160	END	104.	37.	14.	462.	-5689.	-7764.	.0021	.0002	.0024	-.0000	.0000	.0000
18	2	165	END	104.	37.	14.	462.	-6125.	-6829.	.0021	-.0001	.0026	-.0000	.0000	.0000
18	3	167	END	104.	37.	14.	462.	-6695.	-5143.	.0021	-.0001	.0026	-.0000	-.0000	-.0000
19	1	167	BEG	-46.	-41.	58.	-462.	6695.	5143.	.0021	-.0001	.0026	-.0000	-.0000	-.0000
19	1	170	END	46.	41.	-58.	462.	-4368.	-3512.	.0021	.0001	.0022	-.0000	-.0000	-.0000
19	2	175	END	46.	41.	-58.	462.	-2042.	-1880.	.0021	.0006	.0015	-.0000	-.0000	-.0000
20	1	175	BEG	-32.	-37.	68.	-462.	2042.	1880.	.0021	.0006	.0015	-.0000	-.0000	-.0000
20	1	180	END	32.	37.	-68.	462.	682.	-410.	.0021	.0013	.0005	-.0000	-.0000	-.0000
20	2	185	END	32.	37.	-68.	462.	1980.	290.	.0021	.0016	.0001	-.0000	-.0000	-.0000
20	3	190	END	32.	37.	-68.	1331.	2746.	1107.	.0019	.0025	-.0002	-.0000	-.0000	-.0000
21	1	190	BEG	-22.	-24.	67.	-1331.	-2746.	-1107.	.0019	.0025	-.0002	-.0000	-.0000	-.0000
21	1	195	END	22.	24.	-67.	1341.	2736.	1108.	.0019	.0025	-.0002	-.0000	-.0000	-.0000
21	2	200	END	22.	24.	-67.	1352.	2731.	1108.	.0019	.0025	-.0002	-.0000	-.0000	-.0000
21	3	205	END	22.	24.	-67.	1959.	869.	632.	.0021	.0027	-.0005	-.0000	.0000	-.0000
22	1	205	BEG	-15.	-15.	65.	-1959.	-869.	-632.	.0021	.0027	-.0005	-.0000	.0000	-.0000
22	1	210	END	15.	15.	-65.	1959.	187.	474.	.0021	.0026	-.0007	-.0000	.0000	-.0000
22	2	215	END	15.	15.	-65.	1959.	-496.	316.	.0021	.0024	-.0008	-.0000	.0000	-.0000
22	3	220	END	15.	15.	-65.	2275.	-2171.	-0.	.0023	.0023	-.0011	-.0000	.0000	-.0000
23	1	220	BEG	2.	2.	57.	-2275.	2171.	0.	.0023	.0023	-.0011	-.0000	.0000	-.0000
23	1	225	END	-2.	-2.	-57.	2248.	-2146.	-0.	.0023	.0024	-.0011	-.0000	.0000	-.0000
23	2	230	END	-2.	-2.	-57.	2185.	-2090.	-0.	.0023	.0023	-.0011	.0000	-.0000	-.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-2.	-2.	-57.	2122.	-2034.	-0.	.0021	.0021	-.0011	.0000	-.0000	-.0000
23	4	240	END	-2.	-2.	-57.	2060.	-1978.	-0.	.0017	.0018	-.0011	.0000	-.0000	-.0000
24	1	240	BEG	18.	18.	47.	-2060.	1978.	0.	.0017	.0018	-.0011	.0000	-.0000	-.0000
24	1	245	END	-18.	-18.	-47.	1373.	-1319.	0.	.0012	.0013	-.0011	.0000	-.0000	-.0000
24	2	250	END	-18.	-18.	-47.	687.	-659.	0.	.0006	.0007	-.0011	.0000	-.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	-.0011	.0000	-.0000	-.0000
24	3	255	END	-18.	-18.	-47.	-0.	0.	0.	-.0000	-.0000	-.0011	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 3 FREQUENCY 7.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-520.	-21.	-414.	23817.	-18772.	-29893.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	18.	11.	14.	0.	-0.	-0.	.0015	.0009	.0012	-.0000	.0000	.0000
3	20	34.	14.	31.	0.	-0.	-0.	.0021	.0009	.0020	-.0000	.0000	.0000
4	30	78.	17.	83.	0.	0.	-0.	.0042	.0009	.0045	-.0000	.0000	.0000
5	40	106.	17.	117.	0.	0.	-0.	.0058	.0009	.0063	-.0000	.0000	.0000
6	50	183.	25.	199.	-0.	-0.	-0.	.0065	.0009	.0071	-.0000	.0000	.0000
7	57	470.	84.	520.	-0.	0.	0.	.0050	.0009	.0055	.0000	.0000	-.0000
8	70	35.	21.	48.	-0.	-0.	0.	.0014	.0009	.0020	.0000	.0000	-.0000
9	85	-0.	4.	7.	-0.	-0.	0.	-.0000	.0000	.0001	.0000	.0000	-.0000
10	87	-508.	-208.	-620.	-4295.	-43967.	11087.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	58.	-4.	72.	-0.	-0.	-0.	.0021	-.0001	.0026	-.0000	-.0000	-.0000
20	175	14.	4.	10.	0.	0.	0.	.0021	.0006	.0015	-.0000	-.0000	-.0000
21	190	10.	12.	-1.	0.	0.	0.	.0019	.0025	-.0002	-.0000	-.0000	-.0000
22	205	7.	9.	-2.	-0.	-0.	0.	.0021	.0027	-.0005	-.0000	.0000	-.0000
23	220	16.	17.	-6.	0.	-0.	0.	.0023	.0023	-.0011	-.0000	.0000	-.0000
24	240	16.	17.	-10.	-0.	0.	-0.	.0017	.0018	-.0011	.0000	-.0000	-.0000
25	255	-18.	-18.	-47.	-0.	0.	0.	-.0000	-.0000	-.0011	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

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ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 3 FREQUENCY 7.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

LOADS
SHOCK

MODE 4 FREQUENCY 8.61

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-130.	-224.	100.	1147.	-3334.	-10047.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	130.	224.	-100.	-1015.	3245.	10019.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	130.	224.	-100.	4324.	-3430.	2061.	.0003	.0000	-.0001	.0000	.0000	.0000
2	1	15	BEG	-126.	-224.	98.	-4324.	3430.	-2061.	.0003	.0000	-.0001	.0000	.0000	.0000
2	1	20	END	126.	224.	-98.	2260.	-3430.	-581.	.0004	.0000	-.0003	.0000	.0000	.0000
3	1	20	BEG	-86.	-217.	87.	-2573.	2673.	-1483.	.0004	.0000	-.0003	.0000	.0000	.0000
3	1	25	END	86.	217.	-87.	-519.	-2673.	-1586.	.0006	.0000	-.0005	.0000	.0000	.0000
3	2	30	END	86.	217.	-87.	-3610.	-2673.	-4655.	.0009	.0000	-.0007	.0000	.0000	.0000
4	1	30	BEG	-66.	-217.	70.	3610.	2673.	4655.	.0009	.0000	-.0007	.0000	.0000	.0000
4	1	35	END	66.	217.	-70.	-6096.	-2673.	-6998.	.0010	.0000	-.0009	.0000	.0000	.0000
4	2	40	END	66.	217.	-70.	-8582.	-2673.	-9340.	.0012	.0000	-.0011	.0000	.0000	.0000
5	1	40	BEG	-38.	-216.	44.	8582.	2673.	9340.	.0012	.0000	-.0011	.0000	.0000	.0000
5	1	45	END	38.	216.	-44.	-10147.	-2673.	-10676.	.0013	.0000	-.0012	.0000	.0000	.0000
5	2	50	END	38.	216.	-44.	-11713.	-2673.	-12012.	.0013	.0000	-.0013	.0000	-.0000	-.0000
6	1	50	BEG	10.	-215.	-2.	11713.	2673.	12012.	.0013	.0000	-.0013	.0000	-.0000	-.0000
6	1	55	END	-10.	215.	2.	-11619.	-2673.	-11434.	.0012	.0000	-.0012	-.0000	-.0000	-.0000
6	2	57	END	-10.	215.	2.	-11518.	-2673.	-10807.	.0009	.0000	-.0010	-.0000	-.0000	-.0000
7	1	57	BEG	122.	-211.	-122.	11518.	2673.	10807.	.0009	.0000	-.0010	-.0000	-.0000	-.0000
7	1	60	END	-122.	211.	122.	-6683.	-2673.	-5957.	.0007	.0000	-.0008	-.0000	-.0000	-.0000
7	2	65	END	-122.	211.	122.	-1848.	-2673.	-1108.	.0004	.0000	-.0005	-.0000	-.0000	-.0000
7	3	70	END	-122.	211.	122.	2257.	-2673.	3010.	.0002	.0000	-.0003	-.0000	-.0000	-.0000
8	1	70	BEG	128.	-210.	-132.	-2257.	2673.	-3010.	.0002	.0000	-.0003	-.0000	-.0000	-.0000
8	1	75	END	-128.	210.	132.	2336.	-2673.	3087.	.0002	.0000	-.0003	-.0000	-.0000	-.0000
8	2	80	END	-128.	210.	132.	7230.	2587.	-530.	.0000	-.0000	-.0006	-.0000	-.0000	.0000

8	2	80	END	-128.	210.	132.	7230.	2587.	-530.	.0000	-.0000	-.0000	-.0000	-.0000	.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-128.	210.	132.	7216.	2657.	-655.	.0000	-.0000	-.0000	-.0000	-.0000	.0000
9	1	85	BEG	129.	-211.	-133.	-7216.	-2657.	655.	.0000	-.0000	-.0000	-.0000	-.0000	.0000
9	1	86	END	-129.	211.	133.	6567.	5869.	-6387.	.0000	-.0006	.0000	-.0000	-.0000	.0000
9	2	87	END	-129.	211.	133.	-350.	5869.	-13119.	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-31.	-6.	6.	313.	757.	2064.	.0004	.0006	-.0003	.0000	.0000	.0000
18	1	160	END	31.	6.	-6.	-313.	-572.	-1871.	.0004	-.0001	-.0002	.0000	.0000	.0000
18	2	165	END	31.	6.	-6.	-313.	-388.	-1678.	.0004	-.0002	-.0001	.0000	.0000	-.0000
18	3	167	END	31.	6.	-6.	-313.	-146.	-1425.	.0004	-.0001	-.0001	.0000	.0000	-.0000
19	1	167	BEG	-16.	-11.	3.	313.	146.	1425.	.0004	-.0001	-.0001	.0000	.0000	-.0000
19	1	170	END	16.	11.	-3.	-313.	-14.	-983.	.0004	-.0000	-.0000	.0000	.0000	-.0000
19	2	175	END	16.	11.	-3.	-313.	119.	-541.	.0004	.0002	.0000	.0000	.0000	-.0000
20	1	175	BEG	-12.	-10.	3.	313.	-119.	541.	.0004	.0002	.0000	.0000	.0000	-.0000
20	1	180	END	12.	10.	-3.	-313.	255.	-154.	.0004	.0004	.0001	.0000	.0000	-.0000
20	2	185	END	12.	10.	-3.	-313.	319.	30.	.0004	.0005	.0001	.0000	.0000	-.0000
20	3	190	END	12.	10.	-3.	-106.	132.	251.	.0005	.0006	.0002	.0000	.0000	-.0000
21	1	190	BEG	-9.	-6.	4.	106.	-132.	-251.	.0005	.0006	.0002	.0000	.0000	-.0000
21	1	195	END	9.	6.	-4.	-103.	129.	252.	.0005	.0006	.0002	.0000	.0000	-.0000
21	2	200	END	9.	6.	-4.	-101.	126.	252.	.0005	.0006	.0002	.0000	.0000	-.0000
21	3	205	END	9.	6.	-4.	24.	-157.	146.	.0006	.0005	.0001	.0000	.0000	-.0000
22	1	205	BEG	-6.	-3.	5.	-24.	157.	-146.	.0006	.0005	.0001	.0000	.0000	-.0000
22	1	210	END	6.	3.	-5.	24.	-206.	109.	.0006	.0005	.0000	.0000	.0000	-.0000
22	2	215	END	6.	3.	-5.	24.	-254.	73.	.0006	.0004	-.0000	.0000	.0000	-.0000
22	3	220	END	6.	3.	-5.	97.	-489.	0.	.0006	.0003	-.0001	.0000	.0000	-.0000
23	1	220	BEG	-1.	-1.	4.	-97.	489.	0.	.0006	.0003	-.0001	.0000	.0000	-.0000
23	1	225	END	1.	1.	-4.	109.	-499.	-0.	.0006	.0003	-.0001	.0000	.0000	-.0000
23	2	230	END	1.	1.	-4.	135.	-524.	-0.	.0006	.0003	-.0001	.0000	-.0000	-.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	1.	1.	-4.	161.	-548.	-0.	.0006	.0002	-.0001	.0000	-.0000	-.0000
23	4	240	END	1.	1.	-4.	187.	-572.	-0.	.0005	.0002	-.0001	.0000	-.0000	-.0000
24	1	240	BEG	5.	2.	3.	-187.	572.	0.	.0005	.0002	-.0001	.0000	-.0000	-.0000
24	1	245	END	-5.	-2.	-3.	125.	-382.	0.	.0003	.0001	-.0001	.0000	-.0000	-.0000
24	2	250	END	-5.	-2.	-3.	62.	-191.	0.	.0002	.0001	-.0001	.0000	-.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	-.0000	-.0001	.0000	-.0000	-.0000
24	3	255	END	-5.	-2.	-3.	-0.	0.	0.	0.0000	-.0000	-.0001	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 4 FREQUENCY 8.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-130.	-224.	100.	1147.	-3334.	-10047.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	4.	0.	-2.	-0.	-0.	-0.	.0003	.0000	-.0001	.0000	.0000	.0000
3	20	9.	0.	-5.	-0.	0.	-0.	.0004	.0000	-.0003	.0000	.0000	.0000
4	30	20.	0.	-17.	-0.	-0.	-0.	.0009	.0000	-.0007	.0000	.0000	.0000
5	40	28.	1.	-26.	-0.	-0.	-0.	.0012	.0000	-.0011	.0000	.0000	.0000
6	50	47.	1.	-46.	-0.	0.	0.	.0013	.0000	-.0013	.0000	-.0000	-.0000
7	57	113.	4.	-120.	0.	-0.	0.	.0009	.0000	-.0010	-.0000	-.0000	-.0000
8	70	6.	1.	-10.	0.	0.	0.	.0002	.0000	-.0003	-.0000	-.0000	-.0000
9	85	2.	-2.	-1.	0.	0.	-0.	.0000	-.0000	-.0000	-.0000	-.0000	.0000
10	87	-129.	211.	133.	-350.	5869.	-13119.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	15.	-5.	-3.	0.	-0.	-0.	.0004	-.0001	-.0001	.0000	.0000	-.0000
20	175	4.	1.	0.	0.	-0.	0.	.0004	.0002	.0000	.0000	.0000	-.0000
21	190	3.	2.	1.	0.	-0.	0.	.0005	.0006	.0002	.0000	.0000	-.0000
22	205	3.	2.	0.	-0.	-0.	0.	.0006	.0005	.0001	.0000	.0000	-.0000
23	220	6.	3.	-1.	-0.	-0.	0.	.0006	.0003	-.0001	.0000	.0000	-.0000
24	240	6.	2.	-1.	-0.	0.	-0.	.0005	.0002	-.0001	.0000	-.0000	-.0000
25	255	-5.	-2.	-3.	-0.	0.	0.	0.0000	-.0000	-.0001	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

[redacted] 255 [redacted] -5. [redacted] 2. [redacted] 3. [redacted] -0. [redacted] 0. [redacted] 0. [redacted] .0000 [redacted] .0000 [redacted] .000 [redacted] .000 [redacted] .0000 [redacted] .0000 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 4 FREQUENCY 8.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

LOADS
SHOCK

MODE 5 FREQUENCY 11.59

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	26.	-26.	8.	543.	1639.	-216.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-26.	26.	-8.	-528.	-1625.	213.	-.0000	.0000	.0000	-.0000	-.0000	.0000
1	2	15	END	-26.	26.	-8.	237.	-559.	1140.	-.0000	.0000	.0000	-.0000	-.0000	.0000
2	1	15	BEG	25.	-25.	8.	-237.	559.	-1140.	-.0000	.0000	.0000	-.0000	-.0000	.0000
2	1	20	END	-25.	25.	-8.	59.	-559.	1863.	-.0000	.0000	.0000	-.0000	-.0000	.0000
3	1	20	BEG	-18.	-24.	-0.	-104.	-364.	-1766.	-.0000	.0000	.0000	-.0000	-.0000	.0000
3	1	25	END	18.	24.	0.	112.	364.	1133.	-.0000	.0000	.0000	.0000	-.0000	.0000
3	2	30	END	18.	24.	0.	120.	364.	500.	.0000	.0000	.0000	.0000	-.0000	.0000
4	1	30	BEG	-17.	-24.	0.	-120.	-364.	-500.	.0000	.0000	.0000	.0000	-.0000	.0000
4	1	35	END	17.	24.	-0.	106.	364.	-104.	.0001	.0000	.0000	.0000	-.0000	.0000
4	2	40	END	17.	24.	-0.	92.	364.	-707.	.0001	.0000	.0000	.0000	-.0000	.0000
5	1	40	BEG	-13.	-23.	1.	-92.	-364.	707.	.0001	.0000	.0000	.0000	-.0000	.0000
5	1	45	END	13.	23.	-1.	62.	364.	-1187.	.0001	.0000	.0000	.0000	-.0000	.0000
5	2	50	END	13.	23.	-1.	32.	364.	-1666.	.0001	.0000	.0000	.0000	-.0000	.0000
6	1	50	BEG	-5.	-23.	1.	-32.	-364.	1666.	.0001	.0000	.0000	.0000	-.0000	.0000
6	1	55	END	5.	23.	-1.	-41.	364.	-1976.	.0001	.0000	.0000	.0000	-.0000	-.0000
6	2	57	END	5.	23.	-1.	-119.	364.	-2313.	.0001	.0000	-.0000	.0000	-.0000	-.0000
7	1	57	BEG	22.	-20.	0.	119.	-364.	2313.	.0001	.0000	-.0000	.0000	-.0000	-.0000
7	1	60	END	-22.	20.	-0.	-127.	364.	-1455.	.0001	.0000	-.0000	.0000	-.0000	-.0000
7	2	65	END	-22.	20.	-0.	-135.	364.	-598.	.0001	.0000	-.0000	.0000	-.0000	-.0000
7	3	70	END	-22.	20.	-0.	-142.	364.	131.	.0000	.0000	-.0000	.0000	-.0000	-.0000
8	1	70	BEG	23.	-19.	-0.	142.	-364.	-131.	.0000	.0000	-.0000	.0000	-.0000	-.0000
8	1	75	END	-23.	19.	0.	-142.	364.	145.	.0000	.0000	-.0000	.0000	-.0000	-.0000
8	2	80	END	-23.	19.	0.	-225.	262.	333.	.0000	-.0000	-.0000	.0000	-.0000	.0000

8	2	80	END	-23.	19.	0.	-225.	262.	333.	.0000	-.0000	-.0000	.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-23.	19.	0.	-226.	261.	322.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	1	85	BEG	24.	-20.	-0.	226.	-261.	-322.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	1	86	END	-24.	20.	0.	-286.	200.	-210.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	2	87	END	-24.	20.	0.	-309.	200.	-1443.	-.0000	-.0000	.0000	.0000	.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	42.	-1.	9.	45.	923.	103.	-.0000	.0000	.0000	-.0000	-.0000	.0000
18	1	160	END	-42.	1.	-9.	-45.	-638.	-74.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
18	2	165	END	-42.	1.	-9.	-45.	-352.	-45.	-.0000	-.0000	-.0001	-.0000	-.0000	.0000
18	3	167	END	-42.	1.	-9.	-45.	22.	-7.	-.0000	-.0000	-.0003	-.0000	-.0000	.0000
19	1	167	BEG	39.	-2.	-8.	45.	-22.	7.	-.0000	-.0000	-.0003	-.0000	-.0000	.0000
19	1	170	END	-39.	2.	8.	-45.	-303.	78.	-.0000	-.0000	-.0004	-.0000	-.0000	.0000
19	2	175	END	-39.	2.	8.	-45.	-627.	162.	-.0000	-.0000	-.0006	-.0000	-.0000	.0000
20	1	175	BEG	39.	-3.	-17.	45.	627.	-162.	-.0000	-.0000	-.0006	-.0000	-.0000	.0000
20	1	180	END	-39.	3.	17.	-45.	-1311.	273.	-.0000	-.0001	-.0008	-.0000	-.0000	.0000
20	2	185	END	-39.	3.	17.	-45.	-1636.	325.	-.0000	-.0001	-.0009	-.0000	-.0000	.0000
20	3	190	END	-39.	3.	17.	-13.	-1184.	325.	-.0004	-.0001	-.0012	-.0000	-.0000	.0000
21	1	190	BEG	34.	-4.	-31.	13.	1164.	-325.	-.0004	-.0001	-.0012	-.0000	-.0000	.0000
21	1	195	END	-34.	4.	31.	-12.	-1172.	324.	-.0004	-.0001	-.0012	-.0000	-.0000	.0000
21	2	200	END	-34.	4.	31.	-12.	-1160.	323.	-.0004	-.0001	-.0012	-.0000	-.0000	.0000
21	3	205	END	-34.	4.	31.	30.	203.	184.	-.0009	-.0000	-.0007	-.0000	-.0000	.0000
22	1	205	BEG	27.	-4.	-36.	-30.	-203.	-184.	-.0009	-.0000	-.0007	-.0000	-.0000	.0000
22	1	210	END	-27.	4.	36.	30.	584.	138.	-.0009	.0000	-.0004	-.0000	-.0000	.0000
22	2	215	END	-27.	4.	36.	30.	965.	92.	-.0009	.0001	-.0002	-.0000	-.0000	.0000
22	3	220	END	-27.	4.	36.	122.	2294.	-0.	-.0013	.0002	.0003	-.0000	-.0000	.0000
23	1	220	BEG	6.	-1.	-32.	-122.	-2294.	-0.	-.0013	.0002	.0003	-.0000	-.0000	.0000
23	1	225	END	-6.	1.	32.	142.	2393.	0.	-.0014	.0002	.0003	-.0000	-.0000	.0000
23	2	230	END	-6.	1.	32.	187.	2619.	0.	-.0017	.0002	.0003	.0000	-.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-6.	1.	32.	233.	2846.	0.	-.0017	.0002	.0003	.0000	.0000	.0000
23	4	240	END	-6.	1.	32.	278.	3072.	0.	-.0015	.0002	.0003	.0000	.0000	.0000
24	1	240	BEG	-27.	2.	-27.	-278.	-3072.	0.	-.0015	.0002	.0003	.0000	.0000	.0000
24	1	245	END	27.	-2.	27.	165.	2046.	0.	-.0011	.0001	.0003	.0000	.0000	.0000
24	2	250	END	27.	-2.	27.	93.	1024.	0.	-.0006	.0001	.0003	.0000	.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	-.0000	.0003	.0000	.0000	.0000
24	3	255	END	27.	-2.	27.	-0.	-0.	0.	.0000	-.0000	.0003	.0000	.0000	.0000

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 5 FREQUENCY 11.59

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	26.	-26.	8.	543.	1639.	-216.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-1.	0.	0.	0.	0.	-0.	-.0000	.0000	.0000	-.0000	-.0000	.0000
3	20	-1.	0.	1.	-0.	0.	-0.	-.0000	.0000	.0000	-.0000	-.0000	.0000
4	30	1.	0.	1.	-0.	0.	-0.	.0000	.0000	.0000	.0000	-.0000	.0000
5	40	3.	0.	0.	-0.	-0.	-0.	.0001	.0000	.0000	.0000	-.0000	.0000
6	50	8.	1.	0.	-0.	0.	-0.	.0001	.0000	.0000	.0000	-.0000	.0000
7	57	27.	3.	-1.	-0.	-0.	0.	.0001	.0000	-.0000	.0000	-.0000	-.0000
8	70	2.	1.	-0.	0.	0.	0.	.0000	.0000	-.0000	.0000	-.0000	-.0000
9	85	0.	-0.	-0.	-0.	0.	-0.	.0000	-.0000	-.0000	.0000	-.0000	.0000
10	87	-24.	20.	0.	-309.	200.	-1443.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-2.	-1.	-17.	-0.	0.	-0.	-.0000	-.0000	-.0003	-.0000	-.0000	.0000
20	175	-1.	-1.	-9.	-0.	0.	-0.	-.0000	-.0000	-.0006	-.0000	-.0000	.0000
21	190	-5.	-1.	-14.	-0.	-0.	-0.	-.0004	-.0001	-.0012	-.0000	-.0000	.0000
22	205	-7.	-0.	-6.	0.	0.	-0.	-.0009	-.0000	-.0007	-.0000	-.0000	.0000
23	220	-21.	3.	4.	0.	0.	-0.	-.0013	.0002	.0003	-.0000	-.0000	.0000
24	240	-33.	4.	6.	-0.	-0.	0.	-.0015	.0002	.0003	.0000	.0000	.0000
25	255	27.	-2.	27.	-0.	-0.	0.	.0000	-.0000	.0003	.0000	.0000	.0000

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

25 255 27. 2. 27. 0. 0. 0. .0000 -.0000 .0003 .0000 .0000 .0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 5 FREQUENCY 11.59

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

LOADS
SHOCK

MODE 6 FREQUENCY 13.07

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	3.	15.	0.	-400.	34.	120.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-3.	-15.	-0.	391.	-32.	-118.	-.0000	-.0000	.0000	.0000	-.0000	-.0000
1	2	15	END	-3.	-15.	-0.	-275.	115.	174.	.0000	-.0000	-.0000	-.0000	.0000	.0000
2	1	15	BEG	3.	14.	0.	275.	-115.	-174.	.0000	-.0000	-.0000	-.0000	.0000	.0000
2	1	20	END	-3.	-14.	-0.	-282.	115.	246.	.0000	-.0000	-.0000	-.0000	.0000	.0000
3	1	20	BEG	6.	3.	2.	-336.	59.	889.	.0000	-.0000	-.0000	-.0000	.0000	.0000
3	1	25	END	-6.	-3.	-2.	262.	-59.	-681.	.0000	-.0000	-.0000	-.0000	.0000	-.0000
3	2	30	END	-6.	-3.	-2.	186.	-59.	-474.	.0000	-.0000	-.0000	.0000	.0000	-.0000
4	1	30	BEG	6.	3.	2.	-186.	59.	474.	.0000	-.0000	-.0000	.0000	.0000	-.0000
4	1	35	END	-6.	-3.	-2.	114.	-59.	-265.	-.0000	-.0000	-.0000	.0000	.0000	-.0000
4	2	40	END	-6.	-3.	-2.	42.	-59.	-56.	-.0000	-.0000	-.0000	.0000	.0000	-.0000
5	1	40	BEG	5.	3.	2.	-42.	59.	56.	-.0000	-.0000	-.0000	.0000	.0000	-.0000
5	1	45	END	-5.	-3.	-2.	-20.	-59.	130.	-.0000	-.0000	-.0000	.0000	.0000	-.0000
5	2	50	END	-5.	-3.	-2.	-83.	-59.	317.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000
6	1	50	BEG	3.	2.	1.	83.	59.	-317.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000
6	1	55	END	-3.	-2.	-1.	-144.	-59.	505.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000
6	2	57	END	-3.	-2.	-1.	-211.	-59.	710.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
7	1	57	BEG	-6.	0.	-2.	211.	59.	-710.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
7	1	60	END	6.	-0.	2.	-133.	-59.	487.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
7	2	65	END	6.	-0.	2.	-55.	-59.	263.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
7	3	70	END	6.	-0.	2.	11.	-59.	74.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
8	1	70	BEG	-6.	-0.	-2.	-11.	59.	-74.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
8	1	75	END	6.	0.	2.	12.	-59.	70.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
8	2	80	END	6.	0.	2.	115.	76.	-238.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS

8	2	80	END	6.	0.	2.	115.	76.	-238.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000

ADLPIPE PAGE 41 ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	6.	0.	2.	115.	76.	-238.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
9	1	85	BEG	-6.	-0.	-2.	-115.	-78.	238.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
9	1	86	END	6.	0.	2.	114.	164.	-251.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
9	2	87	END	6.	0.	2.	-12.	154.	84.	0.0000	-.0000	-.0000	-.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ADLPIPE PAGE 42 ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-2.	11.	-2.	620.	-174.	-1135.	.0000	-.0000	-.0000	-.0000	.0000	.0000
18	1	160	END	2.	-11.	2.	-620.	113.	802.	.0000	-.0000	.0000	-.0000	.0000	.0000
18	2	165	END	2.	-11.	2.	-620.	52.	469.	.0000	-.0001	.0000	-.0000	.0000	.0000
18	3	167	END	2.	-11.	2.	-620.	-28.	33.	.0000	-.0002	.0000	-.0000	.0000	.0000
19	1	167	BEG	-2.	-8.	1.	620.	28.	-33.	.0000	-.0002	.0000	-.0000	.0000	.0000
19	1	170	END	2.	8.	-1.	-620.	3.	337.	.0000	-.0003	.0001	-.0000	.0000	.0000
19	2	175	END	2.	8.	-1.	-620.	33.	641.	.0000	-.0005	.0001	-.0000	.0000	.0000
20	1	175	BEG	-2.	-17.	2.	620.	-33.	-641.	.0000	-.0005	.0001	-.0000	.0000	.0000
20	1	180	END	2.	17.	-2.	-620.	117.	1341.	.0000	-.0007	.0001	-.0000	.0000	.0000
20	2	185	END	2.	17.	-2.	-620.	158.	1674.	.0000	-.0008	.0001	-.0000	.0000	.0000
20	3	190	END	2.	17.	-2.	-251.	159.	2044.	.0000	-.0009	.0001	-.0000	.0000	.0000
21	1	190	BEG	-2.	-31.	4.	251.	-159.	-2044.	.0000	-.0009	.0001	-.0000	.0000	.0000
21	1	195	END	2.	31.	-4.	-241.	158.	2044.	.0000	-.0009	.0001	-.0000	.0000	.0000
21	2	200	END	2.	31.	-4.	-230.	158.	2044.	.0000	-.0009	.0001	-.0000	.0000	.0000
21	3	205	END	2.	31.	-4.	420.	39.	1401.	.0000	-.0003	.0001	-.0000	.0000	.0000
22	1	205	BEG	-2.	-33.	4.	-420.	-39.	-1401.	.0000	-.0003	.0001	-.0000	.0000	.0000
22	1	210	END	2.	33.	-4.	420.	-7.	1051.	.0000	.0000	.0000	-.0000	.0000	.0000
22	2	215	END	2.	33.	-4.	420.	-52.	701.	.0000	.0003	.0000	-.0000	.0000	.0000
22	3	220	END	2.	33.	-4.	1120.	-179.	-0.	.0001	.0011	-.0000	-.0000	.0000	.0000
23	1	220	BEG	-1.	-11.	4.	-1120.	179.	-0.	.0001	.0011	-.0000	-.0000	.0000	.0000
23	1	225	END	1.	11.	-4.	1304.	-188.	0.	.0001	.0012	-.0000	-.0000	.0000	.0000
23	2	230	END	1.	11.	-4.	1723.	-210.	0.	.0001	.0013	-.0000	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	1.	11.	-4.	2142.	-231.	0.	.0001	.0014	-.0000	.0000	.0000	.0000
23	4	240	END	1.	11.	-4.	2561.	-252.	0.	.0001	.0012	-.0000	.0000	-.0000	.0000
24	1	240	BEG	2.	23.	3.	-2561.	252.	-0.	.0001	.0012	-.0000	.0000	-.0000	.0000
24	1	245	END	-2.	-23.	-3.	1707.	-168.	0.	.0001	.0009	-.0000	.0000	-.0000	.0000
24	2	250	END	-2.	-23.	-3.	854.	-84.	0.	.0000	.0005	-.0000	.0000	-.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	.0000
24	3	255	END	-2.	-23.	-3.	-0.	0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 6 FREQUENCY 13.07

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	3.	15.	0.	-400.	34.	120.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	0.	-0.	-0.	-0.	-0.	-0.	.0000	-.0000	-.0000	-.0000	.0000	.0000
3	20	0.	-0.	-0.	0.	-0.	-0.	.0000	-.0000	-.0000	-.0000	.0000	.0000
4	30	0.	-0.	-0.	-0.	-0.	0.	.0000	-.0000	-.0000	.0000	.0000	-.0000
5	40	-1.	-0.	-0.	-0.	-0.	0.	-.0000	-.0000	-.0000	.0000	.0000	-.0000
6	50	-2.	-1.	-1.	-0.	0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000
7	57	-9.	-2.	-3.	0.	-0.	-0.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
8	70	-1.	-0.	-0.	0.	0.	-0.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
9	85	-0.	-0.	-0.	0.	0.	-0.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
10	87	6.	0.	2.	-12.	164.	84.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	0.	-18.	3.	-0.	-0.	-0.	.0000	-.0002	.0000	-.0000	.0000	.0000
20	175	0.	-10.	1.	-0.	-0.	-0.	.0000	-.0005	.0001	-.0000	.0000	.0000
21	190	0.	-13.	2.	-0.	0.	-0.	.0000	-.0009	.0001	-.0000	.0000	.0000
22	205	0.	-3.	1.	0.	-0.	-0.	.0000	-.0003	.0001	-.0000	.0000	.0000
23	220	1.	22.	-0.	0.	-0.	-0.	.0001	.0011	-.0000	-.0000	.0000	.0000
24	240	3.	34.	-1.	0.	-0.	0.	.0001	.0012	-.0000	.0000	-.0000	.0000
25	255	-2.	-23.	-3.	-0.	0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

[redacted] 255 [redacted] -2. [redacted] 3. [redacted] -0. [redacted] 0. [redacted] 0. [redacted] -.0000 [redacted] -.0000 [redacted] -.0000 [redacted] .0000 [redacted] -.0000 [redacted] .0000 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 6 FREQUENCY 13.07

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

LOADS
SHOCK

MODE 7 FREQUENCY 13.84

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2	15	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	15	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	20	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	25	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2	30	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	30	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	35	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2	40	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	40	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	45	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2	50	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	50	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	55	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	2	57	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	57	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	60	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	2	65	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	3	70	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	70	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	75	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

6	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	65	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	65	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	66	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	2	87	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	87	BEG	-355.	-107.	-511.	-22793.	43495.	9452.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	355.	107.	511.	23401.	-29429.	-12822.	-.0000	-.0000	.0000	.0000	-.0000	-.0000
10	2	90	END	355.	107.	511.	20306.	-16498.	-13380.	.0000	.0000	.0000	.0000	-.0000	-.0000
11	1	90	BEG	-346.	-101.	-504.	-20306.	16498.	13380.	.0000	.0000	.0000	.0000	-.0000	-.0000
11	1	95	END	346.	101.	504.	20247.	-16244.	-13390.	.0000	.0000	.0000	.0000	-.0000	-.0000
11	2	100	END	346.	101.	504.	-6892.	3088.	1361.	.0008	.0006	.0009	.0000	-.0000	-.0000
12	1	100	BEG	-253.	-39.	-400.	6892.	-3088.	-1361.	.0008	.0006	.0009	.0000	-.0000	-.0000
12	1	105	END	253.	39.	400.	-12885.	3088.	5158.	.0010	.0006	.0012	.0000	-.0000	-.0000
12	2	107	END	253.	39.	400.	-34858.	3088.	19082.	.0014	.0006	.0022	.0000	-.0000	-.0000
13	1	107	BEG	-46.	45.	-78.	34858.	-3088.	-19082.	.0014	.0006	.0022	.0000	-.0000	-.0000
13	1	110	END	46.	-45.	78.	-37621.	3088.	20716.	.0016	.0006	.0026	.0000	-.0000	-.0000
13	2	115	END	46.	-45.	78.	-40383.	3088.	22351.	.0016	.0006	.0028	.0000	-.0000	-.0000
14	1	115	BEG	54.	79.	95.	40383.	-3088.	-22351.	.0016	.0006	.0028	.0000	-.0000	-.0000
14	1	120	END	-54.	-79.	-95.	-37020.	3088.	20423.	.0016	.0006	.0028	-.0000	-.0000	.0000
14	2	125	END	-54.	-79.	-95.	-33656.	3088.	18494.	.0014	.0006	.0026	-.0000	-.0000	.0000
15	1	125	BEG	155.	119.	281.	33656.	-3088.	-18494.	.0014	.0006	.0026	-.0000	-.0000	.0000
15	1	130	END	-155.	-119.	-281.	-20159.	3088.	11056.	.0010	.0006	.0020	-.0000	-.0000	.0000
15	2	135	END	-155.	-119.	-281.	-6663.	3088.	3619.	.0005	.0006	.0012	-.0000	-.0000	.0000
16	1	135	BEG	188.	160.	366.	6663.	-3088.	-3619.	.0005	.0006	.0012	-.0000	-.0000	.0000
16	1	140	END	-188.	-160.	-366.	-1963.	3088.	1201.	.0003	.0006	.0009	-.0000	-.0000	.0000
16	2	145	END	-188.	-160.	-366.	17222.	9412.	-11028.	-.0000	.0001	.0001	-.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	-188.	-160.	-366.	17339.	9528.	-11539.	-.0000	.0001	.0001	-.0000	-.0000	.0000
17	1	150	BEG	188.	164.	369.	-17339.	-9528.	11539.	-.0000	.0001	.0001	-.0000	-.0000	.0000
17	1	155	END	-188.	-164.	-369.	23886.	16066.	-17775.	.0000	-.0000	-.0000	-.0000	-.0000	-.0000
18	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	160	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	2	165	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	3	167	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	167	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	170	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	2	175	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	175	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	180	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	2	185	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	3	190	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	190	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	195	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	2	200	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	3	205	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	205	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	210	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	2	215	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	3	220	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	220	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	225	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	2	230	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	4	240	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	240	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	245	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	2	250	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 7 FREQUENCY 13.84

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	20	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	30	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	40	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	50	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	57	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	70	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	85	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	87	-355.	-107.	-511.	-22793.	43495.	9452.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	9.	6.	7.	0.	0.	0.	.0000	.0000	.0000	.0000	-.0000	-.0000
12	100	93.	62.	104.	-0.	0.	0.	.0008	.0006	.0009	.0000	-.0000	-.0000
13	107	207.	84.	322.	-0.	-0.	0.	.0014	.0006	.0022	.0000	-.0000	-.0000
14	115	100.	34.	173.	-0.	0.	0.	.0016	.0006	.0028	.0000	-.0000	-.0000
15	125	101.	40.	186.	0.	0.	-0.	.0014	.0006	.0026	-.0000	-.0000	.0000
16	135	33.	46.	85.	-0.	-0.	0.	.0005	.0006	.0012	-.0000	-.0000	.0000
17	150	-1.	4.	3.	0.	0.	-0.	-.0000	.0001	.0001	-.0000	-.0000	.0000
18	155	-188.	-164.	-369.	23886.	16066.	-17775.	.0000	-.0000	-.0000	-.0000	-.0000	-.0000
19	167	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	175	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	190	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	205	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	220	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	240	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	255	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

[redacted] 255 [redacted] 0. [redacted] 0. [redacted] 0. [redacted] 0. [redacted] 0. [redacted] 0. [redacted] 0.0000 [redacted] 0.0000 [redacted] 0.0000 [redacted] 0.0000 [redacted] 0.0000 [redacted] 0.0000 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 7 FREQUENCY 13.84

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

DYNAMIC PIPE STRESS ANALYSIS, MODE 8, FREQUENCY 15.60

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

LOADS
SHOCK

MODE 9 FREQUENCY 15.93

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	60.	9.	-169.	3962.	-3400.	4937.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-60.	-9.	169.	-3967.	3450.	-4936.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
1	2	15	END	-60.	-9.	169.	3256.	7681.	-2152.	.0001	.0001	.0001	-.0000	.0000	-.0000
2	1	15	BEG	64.	13.	-165.	-3256.	-7681.	2152.	.0001	.0001	.0001	-.0000	.0000	-.0000
2	1	20	END	-64.	-13.	165.	6711.	7681.	-808.	.0001	.0001	.0001	-.0000	.0000	-.0000
3	1	20	BEG	7.	44.	33.	-6611.	2347.	-314.	.0001	.0001	.0001	-.0000	.0000	-.0000
3	1	25	END	-7.	-44.	-33.	5436.	-2347.	578.	.0000	.0001	.0001	-.0000	.0000	-.0000
3	2	30	END	-7.	-44.	-33.	4261.	-2347.	842.	-.0000	.0001	.0001	.0000	.0000	-.0000
4	1	30	BEG	7.	51.	43.	-4261.	2347.	-842.	-.0000	.0001	.0001	.0000	.0000	-.0000
4	1	35	END	-7.	-51.	-43.	2732.	-2347.	1077.	-.0000	.0001	.0001	.0000	.0000	-.0000
4	2	40	END	-7.	-51.	-43.	1203.	-2347.	1312.	-.0001	.0001	.0000	.0000	.0000	-.0000
5	1	40	BEG	2.	57.	45.	-1203.	2347.	-1312.	-.0001	.0001	.0000	.0000	.0000	-.0000
5	1	45	END	-2.	-57.	-45.	-394.	-2347.	1386.	-.0001	.0001	-.0000	.0000	.0000	-.0000
5	2	50	END	-2.	-57.	-45.	-1990.	-2347.	1461.	-.0001	.0001	-.0001	.0000	.0000	.0000
6	1	50	BEG	-7.	65.	32.	1990.	2347.	-1461.	-.0001	.0001	-.0001	.0000	.0000	.0000
6	1	55	END	7.	-65.	-32.	-3920.	-2347.	1060.	-.0001	.0001	-.0002	.0000	.0000	.0000
6	2	57	END	7.	-65.	-32.	-6011.	-2347.	626.	-.0000	.0001	-.0002	.0000	.0000	.0000
7	1	57	BEG	-20.	94.	-53.	6011.	2347.	-626.	-.0000	.0001	-.0002	.0000	.0000	.0000
7	1	60	END	20.	-94.	53.	-3867.	-2347.	-150.	-.0000	.0001	-.0002	-.0000	.0000	.0000
7	2	65	END	20.	-94.	53.	-1784.	-2347.	-926.	.0000	.0001	-.0001	-.0000	.0000	.0000
7	3	70	END	20.	-94.	53.	11.	-2347.	-1585.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	1	70	BEG	-17.	101.	-62.	-11.	2347.	1585.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	1	75	END	17.	-101.	62.	48.	-2347.	-1596.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	2	80	END	17.	-101.	62.	3355.	529.	2158.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS

8	2	80	END	17.	-101.	62.	3355.	529.	2158.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	17.	-101.	62.	3362.	567.	2218.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	85	BEG	-20.	105.	-64.	-3362.	-567.	-2218.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	86	END	20.	-105.	64.	3635.	2366.	5069.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
9	2	87	END	20.	-105.	64.	355.	2366.	6121.	.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	60.	-26.	-189.	-100.	-10028.	1122.	.0001	.0001	.0001	-.0000	.0000	-.0000
18	1	160	END	-60.	26.	189.	100.	4195.	-321.	.0001	.0001	.0005	-.0000	.0000	-.0000
18	2	165	END	-60.	26.	189.	100.	-1637.	480.	.0000	.0002	.0012	-.0000	.0000	-.0000
18	3	167	END	-60.	26.	189.	100.	-9270.	1528.	.0000	.0003	.0019	-.0000	.0000	-.0000
19	1	167	BEG	66.	7.	39.	-100.	9270.	-1528.	.0000	.0003	.0019	-.0000	.0000	-.0000
19	1	170	END	-66.	-7.	-39.	100.	-7691.	1229.	.0000	.0003	.0021	-.0000	-.0000	.0000
19	2	175	END	-66.	-7.	-39.	100.	-6111.	931.	.0000	.0002	.0017	.0000	-.0000	.0000
20	1	175	BEG	67.	12.	90.	-100.	6111.	-931.	.0000	.0002	.0017	.0000	-.0000	.0000
20	1	180	END	-67.	-12.	-90.	100.	-2517.	455.	.0000	-.0006	.0008	.0000	-.0000	.0000
20	2	185	END	-67.	-12.	-90.	100.	-805.	228.	.0000	-.0002	.0002	.0000	-.0000	.0000
20	3	190	END	-67.	-12.	-90.	-15.	2490.	-122.	-.0005	-.0003	-.0004	.0000	-.0000	.0000
21	1	190	BEG	56.	5.	82.	15.	-2490.	122.	-.0005	-.0003	-.0004	.0000	-.0000	.0000
21	1	195	END	-56.	-5.	-82.	-15.	2510.	-123.	-.0005	-.0003	-.0004	.0000	-.0000	.0000
21	2	200	END	-56.	-5.	-82.	-14.	2530.	-125.	-.0005	-.0003	-.0004	.0000	-.0000	.0000
21	3	205	END	-56.	-5.	-82.	-5.	1984.	-95.	-.0008	-.0002	-.0002	.0000	.0000	.0000
22	1	205	BEG	44.	2.	79.	5.	-1984.	95.	-.0008	-.0002	-.0002	.0000	.0000	.0000
22	1	210	END	-44.	-2.	-79.	-5.	1159.	-71.	-.0008	-.0002	-.0002	.0000	.0000	.0000
22	2	215	END	-44.	-2.	-79.	-5.	333.	-47.	-.0008	-.0001	-.0003	.0000	.0000	.0000
22	3	220	END	-44.	-2.	-79.	-53.	-399.	-0.	-.0008	-.0006	-.0003	.0000	-.0000	.0000
23	1	220	BEG	18.	1.	70.	53.	399.	-0.	-.0008	-.0000	-.0003	.0000	-.0000	.0000
23	1	225	END	-18.	-1.	-70.	-72.	-103.	0.	-.0009	-.0000	-.0003	.0000	-.0000	.0000
23	2	230	END	-18.	-1.	-70.	-116.	574.	0.	-.0009	-.0001	-.0003	.0000	-.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

SC	HE	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-18.	-1.	-70.	-159.	1250.	0.	-.0009	-.0001	-.0003	.0000	.0000	.0000
23	4	240	END	-18.	-1.	-70.	-203.	1926.	0.	-.0009	-.0001	-.0003	-.0000	.0000	.0000
24	1	240	BEG	-17.	-2.	58.	203.	-1926.	0.	-.0009	-.0001	-.0003	-.0000	.0000	.0000
24	1	245	END	17.	2.	-58.	-135.	1284.	0.	-.0007	-.0001	-.0003	-.0000	.0000	.0000
24	2	250	END	17.	2.	-58.	-68.	642.	0.	-.0003	-.0000	-.0003	-.0000	.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	.0000	-.0003	-.0000	.0000	.0000
24	3	255	END	17.	2.	-58.	0.	-0.	0.	.0000	.0000	-.0003	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 9 FREQUENCY 15.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	60.	9.	-169.	3962.	-3400.	4937.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	4.	4.	5.	0.	0.	-0.	.0001	.0001	.0001	-.0000	.0000	-.0000
3	20	4.	5.	9.	0.	-0.	0.	.0001	.0001	.0001	-.0000	.0000	-.0000
4	30	-1.	6.	10.	-0.	-0.	0.	-.0000	.0001	.0001	.0000	.0000	-.0000
5	40	-5.	6.	2.	-0.	0.	0.	-.0001	.0001	.0000	.0000	.0000	-.0000
6	50	-9.	9.	-13.	-0.	-0.	0.	-.0001	.0001	-.0001	.0000	.0000	.0000
7	57	-13.	29.	-86.	-0.	0.	-0.	-.0000	.0001	-.0002	.0000	.0000	.0000
8	70	2.	7.	-9.	0.	0.	-0.	.0000	.0001	-.0001	-.0000	-.0000	.0000
9	85	-3.	4.	-2.	0.	0.	0.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	87	20.	-105.	64.	355.	2368.	6121.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	6.	33.	228.	-0.	-0.	0.	.0000	.0003	.0019	-.0000	.0000	-.0000
20	175	1.	4.	50.	-0.	0.	-0.	.0000	.0002	.0017	.0000	-.0000	.0000
21	190	-11.	-6.	-8.	-0.	0.	-0.	-.0005	-.0003	-.0004	.0000	-.0000	.0000
22	205	-12.	-3.	-3.	0.	0.	-0.	-.0008	-.0002	-.0002	.0000	.0000	.0000
23	220	-26.	-1.	-9.	0.	0.	-0.	-.0008	-.0000	-.0003	.0000	-.0000	.0000
24	240	-35.	-3.	-12.	-0.	-0.	0.	-.0009	-.0001	-.0003	-.0000	.0000	.0000
25	255	17.	2.	-58.	0.	-0.	0.	.0000	.0000	-.0003	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 9 FREQUENCY 15.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS

LOADS
SHOCK

MODE 10 FREQUENCY 18.09

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	87.	-673.	13.	20416.	6043.	1742.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-87.	673.	-13.	-20021.	-5993.	-1826.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
1	2	15	END	-87.	673.	-13.	9005.	-2285.	-4204.	-.0003	.0003	.0004	-.0000	-.0000	-.0000
2	1	15	BEG	66.	-651.	37.	-9005.	2285.	4204.	-.0003	.0003	.0004	-.0000	-.0000	-.0000
2	1	20	END	-66.	651.	-37.	8222.	-2285.	-2819.	-.0005	.0003	.0004	-.0000	-.0000	-.0000
3	1	20	BEG	-46.	-122.	-16.	-5715.	-1431.	-22607.	-.0005	.0003	.0004	-.0000	-.0000	-.0000
3	1	25	END	46.	122.	16.	6294.	1431.	20964.	-.0006	.0003	.0004	-.0000	-.0000	-.0000
3	2	30	END	46.	122.	16.	6872.	1431.	19320.	-.0007	.0003	.0004	.0000	-.0000	-.0000
4	1	30	BEG	-118.	-86.	29.	-6872.	-1431.	-19320.	-.0007	.0003	.0004	.0000	-.0000	-.0000
4	1	35	END	118.	86.	-29.	5848.	1431.	15124.	-.0006	.0003	.0004	.0000	-.0000	.0000
4	2	40	END	118.	86.	-29.	4823.	1431.	10928.	-.0005	.0003	.0003	.0000	-.0000	.0000
5	1	40	BEG	-168.	-51.	62.	-4823.	-1431.	-10928.	-.0005	.0003	.0003	.0000	-.0000	.0000
5	1	45	END	168.	51.	-62.	2615.	1431.	4939.	-.0003	.0003	.0002	.0000	-.0000	.0000
5	2	50	END	168.	51.	-62.	406.	1431.	-1051.	-.0000	.0003	.0001	.0000	-.0000	.0000
6	1	50	BEG	-174.	4.	78.	-406.	-1431.	1051.	-.0000	.0003	.0001	.0000	-.0000	.0000
6	1	55	END	174.	-4.	-78.	-4253.	1431.	-11465.	.0003	.0003	-.0001	.0000	-.0000	.0000
6	2	57	END	174.	-4.	-78.	-9301.	1431.	-22745.	.0006	.0003	-.0003	.0000	-.0000	.0000
7	1	57	BEG	139.	185.	-57.	9301.	-1431.	22745.	.0006	.0003	-.0003	.0000	-.0000	.0000
7	1	60	END	-139.	-185.	57.	-7028.	1431.	-17224.	.0006	.0003	-.0003	.0000	-.0000	-.0000
7	2	65	END	-139.	-185.	57.	-4755.	1431.	-11703.	.0005	.0003	-.0003	-.0000	-.0000	-.0000
7	3	70	END	-139.	-185.	57.	-2826.	1431.	-7015.	.0003	.0003	-.0002	-.0000	-.0000	-.0000
8	1	70	BEG	183.	230.	-90.	2826.	-1431.	7015.	.0003	.0003	-.0002	-.0000	-.0000	-.0000
8	1	75	END	-183.	-230.	90.	-2772.	1431.	-6905.	.0003	.0003	-.0002	-.0000	-.0000	-.0000
8	2	80	END	-183.	-230.	90.	2405.	4547.	11629.	-.0000	.0006	-.0000	-.0000	-.0000	-.0000

8	2	80	END	-183.	-230.	90.	2405.	4547.	11629.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-183.	-230.	90.	2420.	4589.	11766.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	85	BEG	176.	243.	-98.	-2420.	-4589.	-11766.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	86	END	-176.	-243.	98.	3167.	6694.	18361.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	2	87	END	-176.	-243.	98.	-1905.	6694.	9194.	.0000	.0000	-.0000	-.0000	-.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	71.	-499.	89.	-2507.	3716.	25426.	-.0005	.0003	.0004	-.0000	-.0000	-.0000
18	1	160	END	-71.	499.	-89.	2507.	-973.	-10006.	-.0005	.0011	.0001	.0000	-.0000	-.0000
18	2	165	END	-71.	499.	-89.	2507.	1770.	5413.	-.0005	.0025	-.0003	.0000	-.0000	-.0000
18	3	167	END	-71.	499.	-89.	2507.	5359.	25593.	-.0005	.0039	-.0007	.0000	-.0000	-.0000
19	1	167	BEG	0.	112.	-24.	-2507.	-5359.	-25593.	-.0005	.0039	-.0007	.0000	-.0000	-.0000
19	1	170	END	-0.	-112.	24.	2507.	4414.	21091.	-.0005	.0040	-.0008	.0000	.0000	.0000
19	2	175	END	-0.	-112.	24.	2507.	3469.	16588.	-.0005	.0023	-.0006	.0000	.0000	.0001
20	1	175	BEG	-17.	200.	-46.	-2507.	-3469.	-16588.	-.0005	.0023	-.0006	.0000	.0000	.0001
20	1	180	END	17.	-200.	46.	2507.	1643.	8580.	-.0005	-.0008	-.0000	.0000	.0000	.0001
20	2	185	END	17.	-200.	46.	2507.	774.	4766.	-.0005	-.0026	.0003	.0000	.0000	.0001
20	3	190	END	19.	-200.	46.	-1743.	-544.	598.	-.0002	-.0057	.0007	.0000	.0000	.0001
21	1	190	BEG	-24.	42.	-25.	1743.	544.	-598.	-.0002	-.0057	.0007	.0000	.0000	.0001
21	1	195	END	24.	-42.	25.	-1759.	-552.	599.	-.0002	-.0057	.0007	.0000	.0000	.0001
21	2	200	END	24.	-42.	25.	-1774.	-560.	599.	-.0002	-.0057	.0007	.0000	.0000	.0001
21	3	205	END	24.	-42.	25.	-2692.	-536.	1518.	-.0001	-.0040	.0005	.0000	.0000	.0001
22	1	205	BEG	-25.	-36.	-15.	2692.	536.	-1518.	-.0001	-.0040	.0005	.0000	.0000	.0001
22	1	210	END	25.	36.	15.	-2692.	-379.	1138.	-.0001	-.0028	.0004	.0000	.0000	.0001
22	2	215	END	25.	36.	15.	-2692.	-221.	759.	-.0001	-.0015	.0003	.0000	.0000	.0001
22	3	220	END	25.	36.	15.	-1933.	-438.	-0.	.0001	.0007	.0000	.0000	.0000	.0001
23	1	220	BEG	-19.	-6.	-13.	1933.	438.	-0.	.0001	.0007	.0000	.0000	.0000	.0001
23	1	225	END	19.	6.	13.	-1832.	-754.	0.	.0003	.0006	.0000	.0000	.0000	.0001
23	2	230	END	19.	6.	13.	-1600.	-1478.	0.	.0006	.0002	.0000	.0000	.0000	.0001

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	19.	6.	13.	-1368.	-2202.	0.	.0008	.0006	.0000	.0000	.0000	.0001
23	4	240	END	19.	6.	13.	-1137.	-2926.	0.	.0009	-.0001	.0000	.0000	-.0000	.0001
24	1	240	BEG	26.	-10.	-11.	1137.	2926.	0.	.0009	-.0001	.0000	.0000	-.0000	.0001
24	1	245	END	-26.	10.	11.	-756.	-1950.	0.	.0007	-.0001	.0000	-.0000	-.0000	.0001
24	2	250	END	-26.	10.	11.	-379.	-975.	0.	.0004	-.0001	.0000	-.0000	-.0000	.0001
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0006	.0000	-.0000	-.0000	.0001
24	3	255	END	-26.	10.	11.	0.	0.	0.	-.0000	-.0006	.0000	-.0000	-.0000	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 10 FREQUENCY 18.09

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	87.	-673.	13.	20416.	6043.	1742.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-21.	22.	24.	0.	-0.	0.	-.0003	.0003	.0004	-.0000	-.0000	-.0000
3	20	-41.	30.	35.	0.	0.	0.	-.0005	.0003	.0004	-.0000	-.0000	-.0000
4	30	-72.	35.	45.	-0.	0.	0.	-.0007	.0003	.0004	.0000	-.0000	-.0000
5	40	-50.	36.	33.	-0.	-0.	-0.	-.0005	.0003	.0003	.0000	-.0000	.0000
6	50	-5.	54.	16.	-0.	0.	-0.	-.0000	.0003	.0001	.0000	-.0000	.0000
7	57	313.	181.	-135.	-0.	-0.	-0.	.0006	.0003	-.0003	.0000	-.0000	.0000
8	70	44.	45.	-32.	0.	0.	0.	.0003	.0003	-.0002	-.0000	-.0000	-.0000
9	85	-7.	13.	-8.	0.	0.	0.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	87	-176.	-243.	98.	-1905.	6694.	9194.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-71.	611.	-112.	0.	0.	0.	-.0005	.0039	-.0007	.0000	-.0000	-.0000
20	175	-17.	87.	-22.	0.	-0.	-0.	-.0005	.0023	-.0006	.0000	.0000	.0001
21	190	-7.	-158.	21.	-0.	-0.	-0.	-.0002	-.0057	.0007	.0000	.0000	.0001
22	205	-1.	-78.	10.	0.	-0.	-0.	-.0001	-.0040	.0005	.0000	.0000	.0001
23	220	6.	36.	2.	0.	-0.	-0.	.0001	.0007	.0000	.0000	.0000	.0001
24	240	45.	-4.	2.	-0.	-0.	0.	.0009	-.0001	.0000	.0000	-.0000	.0001
25	255	-26.	10.	11.	0.	0.	0.	-.0000	-.0000	.0000	-.0000	-.0000	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

25 255 26. 0. 0. 0. 0. 0. -.0000 -.0000 .0000 -.0000 -.0000 .0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 10 FREQUENCY 18.09

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

DYNAMIC PIPE STRESS ANALYSIS, MODE 11, FREQUENCY 21.27

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 12, FREQUENCY 23.56

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 13, FREQUENCY 27.61

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 14 FREQUENCY 28.66

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-17.	-57.	9.	1385.	-791.	-533.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	17.	57.	-9.	-1352.	780.	525.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	17.	57.	-9.	777.	-43.	-768.	.0000	.0000	.0000	.0000	.0000	-.0000
2	1	15	BEG	-13.	-54.	10.	-777.	43.	768.	.0000	.0000	.0000	.0000	.0000	-.0000
2	1	20	END	13.	54.	-10.	561.	-43.	-1035.	.0000	.0000	.0000	.0000	.0000	-.0000
3	1	20	BEG	5.	-29.	13.	-458.	-21.	228.	.0000	.0000	.0000	.0000	.0000	-.0000
3	1	25	END	-5.	29.	-13.	-11.	21.	-46.	.0000	.0000	-.0000	.0000	.0000	-.0000
3	2	30	END	-5.	29.	-13.	-480.	21.	137.	.0000	.0000	-.0000	.0000	.0000	-.0000
4	1	30	BEG	5.	-23.	7.	480.	-21.	-137.	.0000	.0000	-.0000	.0000	.0000	-.0000
4	1	35	END	-5.	23.	-7.	-740.	21.	332.	-.0000	.0000	-.0000	.0000	.0000	-.0000
4	2	40	END	-5.	23.	-7.	-1000.	21.	526.	-.0000	.0000	-.0000	.0000	.0000	-.0000
5	1	40	BEG	2.	-17.	-2.	1000.	-21.	-526.	-.0000	.0000	-.0000	.0000	.0000	-.0000
5	1	45	END	-2.	17.	2.	-916.	21.	584.	-.0000	.0000	-.0000	-.0000	.0000	-.0000
5	2	50	END	-2.	17.	2.	-832.	21.	642.	-.0000	.0000	-.0000	-.0000	.0000	.0000
6	1	50	BEG	-6.	-7.	-14.	832.	-21.	-642.	-.0000	.0000	-.0000	-.0000	.0000	.0000
6	1	55	END	6.	7.	14.	8.	21.	291.	-.0000	.0000	-.0000	-.0000	.0000	.0000
6	2	57	END	6.	7.	14.	917.	21.	-89.	.0000	.0000	.0000	-.0000	.0000	.0000
7	1	57	BEG	-5.	25.	5.	-917.	-21.	89.	.0000	.0000	.0000	-.0000	.0000	.0000
7	1	60	END	5.	-25.	-5.	706.	21.	-274.	.0000	.0000	.0000	-.0000	.0000	.0000
7	2	65	END	5.	-25.	-5.	496.	21.	-459.	.0000	.0000	.0000	-.0000	.0000	.0000
7	3	70	END	5.	-25.	-5.	317.	21.	-616.	.0000	.0000	.0000	.0000	.0000	.0000
8	1	70	BEG	0.	33.	14.	-317.	-21.	616.	.0000	.0000	.0000	.0000	.0000	.0000
8	1	75	END	-0.	-33.	-14.	308.	21.	-615.	.0000	.0000	.0000	.0000	.0000	.0000
8	2	80	END	-0.	-33.	-14.	-162.	-611.	885.	-.0000	.0000	.0000	-.0000	.0000	-.0000

8	2	80	END	-0.	-33.	-14.	-162.	-611.	885.	-.0000	.0000	.0000	-.0000	.0000	-.0000

SC	HE	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-0.	-33.	-14.	-159.	-619.	904.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	85	BEG	-2.	37.	18.	159.	619.	-904.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	86	END	2.	-37.	-18.	-44.	-1105.	1922.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	2	87	END	2.	-37.	-18.	900.	-1105.	2043.	.0000	.0000	-.0000	.0000	.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-13.	-20.	-2.	-103.	63.	807.	.0000	.0000	.0000	.0000	.0000	-.0000
18	1	160	END	13.	20.	2.	103.	-138.	-194.	.0000	.0000	.0000	.0000	.0000	-.0000
18	2	165	END	13.	20.	2.	103.	-214.	419.	.0000	.0001	.0000	.0000	-.0000	-.0000
18	3	167	END	13.	20.	2.	103.	-312.	1221.	.0000	.0001	.0000	.0000	-.0000	-.0000
19	1	167	BEG	-5.	24.	3.	-103.	312.	-1221.	.0000	.0001	.0000	.0000	-.0000	-.0000
19	1	170	END	5.	-24.	-3.	103.	-194.	274.	.0000	.0001	-.0000	.0000	-.0000	.0000
19	2	175	END	5.	-24.	-3.	103.	-76.	-673.	.0000	.0000	-.0000	.0000	-.0000	.0000
20	1	175	BEG	-3.	26.	-1.	-103.	76.	673.	.0000	.0000	-.0000	.0000	-.0000	.0000
20	1	180	END	3.	-26.	1.	103.	-130.	-1702.	.0000	.0000	-.0001	.0000	-.0000	-.0000
20	2	185	END	3.	-26.	1.	103.	-155.	-2192.	.0000	.0001	-.0001	.0000	-.0000	-.0000
20	3	190	END	3.	-26.	1.	-436.	-243.	-2726.	-.0000	.0003	-.0002	-.0000	-.0000	-.0000
21	1	190	BEG	-3.	46.	-12.	436.	243.	2726.	-.0000	.0003	-.0002	-.0000	-.0000	-.0000
21	1	195	END	3.	-46.	12.	-453.	-244.	-2726.	-.0000	.0003	-.0002	-.0000	-.0000	-.0000
21	2	200	END	3.	-46.	12.	-469.	-245.	-2726.	-.0000	.0003	-.0002	-.0000	-.0000	-.0000
21	3	205	END	3.	-46.	12.	-1451.	-53.	-1756.	-.0000	-.0001	-.0001	-.0000	-.0000	-.0000
22	1	205	BEG	-5.	42.	-17.	1451.	53.	1756.	-.0000	-.0001	-.0001	-.0000	-.0000	-.0000
22	1	210	END	5.	-42.	17.	-1451.	124.	-1317.	-.0000	-.0004	-.0001	-.0000	-.0000	-.0000
22	2	215	END	5.	-42.	17.	-1451.	302.	-878.	-.0000	-.0007	-.0000	-.0000	-.0000	-.0000
22	3	220	END	5.	-42.	17.	-2329.	559.	0.	-.0001	-.0010	.0000	-.0000	.0000	-.0000
23	1	220	BEG	-10.	-63.	-15.	2329.	-559.	0.	-.0001	-.0010	.0000	-.0000	.0000	-.0000
23	1	225	END	10.	63.	15.	-1306.	400.	-0.	-.0000	-.0008	.0000	-.0000	.0000	-.0000
23	2	230	END	10.	63.	15.	1032.	38.	-0.	.0000	-.0001	.0000	-.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	10.	63.	15.	3369.	-324.	-0.	.0001	.0005	.0000	-.0000	.0000	-.0000
23	4	240	END	10.	63.	15.	5706.	-686.	-0.	.0001	.0009	.0000	-.0000	.0000	-.0000
24	1	240	BEG	6.	51.	-13.	-5706.	686.	0.	.0001	.0009	.0000	-.0000	.0000	-.0000
24	1	245	END	-6.	-51.	13.	3804.	-458.	0.	.0001	.0008	.0000	.0000	-.0000	-.0000
24	2	250	END	-6.	-51.	13.	1902.	-229.	0.	.0001	.0005	.0000	.0000	-.0000	-.0000
24	3	255	DIS	6.	0.	0.	0.	0.	0.	0.0000	-.0000	.0000	.0000	-.0000	-.0000
24	3	255	END	-6.	-51.	13.	0.	0.	0.	0.0000	-.0000	.0000	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 14 FREQUENCY 28.68

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-17.	-57.	9.	1385.	-791.	-533.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	4.	4.	1.	0.	-0.	-0.	.0000	.0000	.0000	.0000	.0000	-.0000
3	20	5.	5.	1.	-0.	0.	0.	.0000	.0000	.0000	.0000	.0000	-.0000
4	30	0.	6.	-6.	-0.	-0.	0.	.0000	.0000	-.0000	.0000	.0000	-.0000
5	40	-4.	6.	-10.	-0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	-.0000
6	50	-7.	10.	-12.	0.	-0.	-0.	-.0000	.0000	-.0000	-.0000	.0000	.0000
7	57	1.	32.	19.	0.	0.	-0.	.0000	.0000	.0000	-.0000	.0000	.0000
8	70	5.	8.	9.	0.	-0.	-0.	.0000	.0000	.0000	.0000	.0000	.0000
9	85	-3.	4.	4.	-0.	-0.	0.	-.0000	.0000	.0000	-.0000	.0000	-.0000
10	87	2.	-37.	-18.	900.	-1105.	2043.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	8.	43.	5.	0.	0.	0.	.0000	.0001	.0000	.0000	-.0000	-.0000
20	175	2.	2.	-4.	-0.	0.	-0.	.0000	.0000	-.0000	.0000	-.0000	.0000
21	190	-0.	20.	-11.	0.	-0.	0.	-.0000	.0003	-.0002	-.0000	-.0000	-.0000
22	205	-2.	-4.	-5.	-0.	0.	0.	-.0000	-.0001	-.0001	-.0000	-.0000	-.0000
23	220	-5.	-104.	2.	-0.	0.	0.	-.0001	-.0010	.0000	-.0000	.0000	-.0000
24	240	16.	113.	3.	0.	-0.	-0.	.0001	.0009	.0000	-.0000	.0000	-.0000
25	255	-6.	-51.	13.	0.	0.	0.	0.0000	-.0000	.0000	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

C [redacted] 255 [redacted] -6. [redacted] 51. [redacted] 3. [redacted] 0. [redacted] 0. [redacted] 0 [redacted] .0000 [redacted] .000 [redacted] .000 [redacted] .0000 [redacted] -.0000 [redacted] -.0000 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 14 FREQUENCY 28.68

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

DYNAMIC PIPE STRESS ANALYSIS, MODE 15, FREQUENCY 31.57

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 16, FREQUENCY 32.32

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 17, FREQUENCY 38.57

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 18, FREQUENCY 41.84

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 19, FREQUENCY 47.39

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 20 FREQUENCY 48.93

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-22.	-22.	25.	82.	-636.	-758.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	22.	22.	-25.	-69.	620.	755.	.0000	.0000	-.0000	-.0000	.0000	.0000
1	2	15	END	22.	22.	-25.	-249.	-592.	-446.	.0000	.0000	-.0000	.0000	.0000	.0000
2	1	15	BEG	-12.	-21.	20.	249.	592.	446.	.0000	.0000	-.0000	.0000	.0000	.0000
2	1	20	END	12.	21.	-20.	-678.	-592.	-696.	.0000	.0000	-.0000	.0000	.0000	-.0000
3	1	20	BEG	5.	-22.	-1.	669.	148.	745.	.0000	.0000	-.0000	.0000	.0000	-.0000
3	1	25	END	-5.	22.	1.	-645.	-148.	-573.	.0000	.0000	-.0000	-.0000	.0000	-.0000
3	2	30	END	-5.	22.	1.	-622.	-148.	-401.	.0000	.0000	-.0000	-.0000	.0000	-.0000
4	1	30	BEG	13.	-21.	-10.	622.	148.	401.	.0000	.0000	-.0000	-.0000	.0000	-.0000
4	1	35	END	-13.	21.	10.	-258.	-148.	54.	.0000	.0000	-.0000	-.0000	.0000	-.0000
4	2	40	END	-13.	21.	10.	106.	-148.	508.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
5	1	40	BEG	6.	-20.	-9.	-106.	148.	-508.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
5	1	45	END	-6.	20.	9.	439.	-148.	729.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
5	2	50	END	-6.	20.	9.	771.	-148.	949.	-.0000	.0000	.0000	-.0000	-.0000	.0000
6	1	50	BEG	-13.	-17.	5.	-771.	148.	-949.	-.0000	.0000	.0000	-.0000	-.0000	.0000
6	1	55	END	13.	17.	-5.	463.	-148.	162.	-.0000	.0000	.0000	.0000	-.0000	.0000
6	2	57	END	13.	17.	-5.	129.	-148.	-691.	.0000	.0000	-.0000	.0000	-.0000	.0000
7	1	57	BEG	4.	-6.	5.	-129.	148.	691.	.0000	.0000	-.0000	.0000	-.0000	.0000
7	1	60	END	-4.	6.	-5.	-51.	-148.	-513.	.0000	.0000	-.0000	.0000	-.0000	.0000
7	2	65	END	-4.	6.	-5.	-231.	-148.	-336.	.0000	.0000	-.0000	.0000	-.0000	-.0000
7	3	70	END	-4.	6.	-5.	-383.	-148.	-185.	.0000	.0000	-.0000	.0000	-.0000	-.0000
8	1	70	BEG	9.	-3.	-13.	383.	148.	185.	.0000	.0000	-.0000	.0000	-.0000	-.0000
8	1	75	END	-9.	3.	13.	-325.	-148.	-180.	.0000	.0000	-.0000	.0000	-.0000	-.0000
8	2	80	END	-9.	3.	13.	205.	397.	117.	.0000	-.0000	-.0000	.0000	-.0000	.0000

8	2	80	END	-9.	3.	13.	205.	397.	117.	.0000	-.0000	-.0000	.0000	-.0000	.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-9.	3.	13.	205.	404.	116.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	1	85	BEG	11.	-4.	-26.	-205.	-404.	-116.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	1	86	END	-11.	4.	26.	192.	1079.	1.	.0000	-.0000	-.0000	.0000	-.0000	.0000
9	2	87	END	-11.	4.	26.	-1164.	1079.	-546.	-.0000	-.0000	-.0000	-.0000	-.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-3.	1.	13.	8.	465.	-49.	.0000	.0000	-.0000	.0000	.0000	-.0000
18	1	160	END	3.	-1.	-13.	-8.	-58.	20.	.0000	.0000	-.0000	.0000	-.0000	.0000
18	2	165	END	3.	-1.	-13.	-8.	328.	-8.	.0000	-.0000	-.0000	.0000	-.0000	.0000
18	3	167	END	3.	-1.	-13.	-8.	834.	-46.	.0000	-.0000	-.0000	.0000	.0000	.0000
19	1	167	BEG	21.	-1.	-18.	8.	-834.	46.	.0000	-.0000	-.0000	.0000	.0000	.0000
19	1	170	END	-21.	1.	18.	-8.	130.	-14.	.0000	-.0000	.0000	.0000	.0000	-.0000
19	2	175	END	-21.	1.	18.	-8.	-574.	18.	.0000	.0000	.0001	.0000	.0000	-.0000
20	1	175	BEG	27.	-0.	3.	8.	574.	-18.	.0000	.0000	.0001	.0000	.0000	-.0000
20	1	180	END	-27.	0.	-3.	-8.	-473.	24.	.0000	.0000	.0001	-.0000	-.0000	-.0000
20	2	185	END	-27.	0.	-3.	-8.	-426.	27.	.0000	.0000	.0001	-.0000	-.0000	.0000
20	3	190	END	-27.	0.	-3.	-2.	184.	-10.	-.0000	.0000	.0000	-.0000	-.0000	.0000
21	1	190	BEG	21.	0.	11.	2.	-184.	10.	-.0000	.0000	.0000	-.0000	-.0000	.0000
21	1	195	END	-21.	-0.	-11.	-1.	191.	-10.	-.0000	.0000	.0000	-.0000	-.0000	.0000
21	2	200	END	-21.	-0.	-11.	-1.	199.	-11.	-.0000	.0000	.0000	-.0000	-.0000	.0000
21	3	205	END	-21.	-0.	-11.	7.	408.	-34.	-.0001	.0000	.0000	-.0000	.0000	-.0000
22	1	205	BEG	12.	1.	17.	-7.	-408.	34.	-.0001	.0000	.0000	-.0000	.0000	-.0000
22	1	210	END	-12.	-1.	-17.	7.	229.	-26.	-.0001	.0000	.0000	-.0000	.0000	-.0000
22	2	215	END	-12.	-1.	-17.	7.	50.	-17.	-.0001	.0000	.0000	-.0000	.0000	-.0000
22	3	220	END	-12.	-1.	-17.	-10.	-51.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
23	1	220	BEG	-0.	-0.	16.	10.	51.	0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
23	1	225	END	0.	0.	-16.	-7.	-53.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
23	2	230	END	0.	0.	-16.	-1.	-59.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	-16.	5.	-65.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
23	4	240	END	0.	0.	-16.	11.	-70.	-0.	.0000	.0000	-.0000	-.0000	.0000	-.0000
24	1	240	BEG	1.	0.	14.	-11.	70.	0.	.0000	.0000	-.0000	-.0000	.0000	-.0000
24	1	245	END	-1.	-0.	-14.	7.	-47.	0.	.0000	.0000	-.0000	.0000	.0000	-.0000
24	2	250	END	-1.	-0.	-14.	4.	-23.	0.	.0000	.0000	-.0000	.0000	-.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000
24	3	255	END	-1.	-0.	-14.	-0.	-0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 20 FREQUENCY 46.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-22.	-22.	25.	82.	-636.	-758.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	10.	0.	-5.	-0.	-0.	-0.	.0000	.0000	-.0000	.0000	.0000	.0000
3	20	14.	0.	-9.	-0.	0.	0.	.0000	.0000	-.0000	.0000	.0000	-.0000
4	30	6.	1.	-10.	0.	-0.	0.	.0000	.0000	-.0000	-.0000	.0000	-.0000
5	40	-7.	1.	1.	0.	0.	0.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
6	50	-19.	3.	14.	0.	-0.	-0.	-.0000	.0000	.0000	-.0000	-.0000	.0000
7	57	16.	11.	-1.	-0.	-0.	-0.	.0000	.0000	-.0000	.0000	-.0000	.0000
8	70	5.	3.	-18.	-0.	0.	0.	.0000	.0000	-.0000	.0000	-.0000	-.0000
9	85	1.	-2.	-13.	0.	0.	-0.	.0000	-.0000	-.0000	.0000	-.0000	.0000
10	87	-11.	4.	26.	-1164.	1079.	-546.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	24.	-2.	-30.	0.	-0.	-0.	.0000	-.0000	-.0000	.0000	.0000	.0000
20	175	5.	1.	20.	-0.	-0.	0.	.0000	.0000	.0001	.0000	.0000	-.0000
21	190	-6.	1.	8.	0.	0.	-0.	-.0000	.0000	.0000	-.0000	-.0000	.0000
22	205	-8.	0.	6.	-0.	0.	0.	-.0001	.0000	.0000	-.0000	.0000	-.0000
23	220	-12.	-1.	-1.	0.	-0.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
24	240	1.	0.	-2.	0.	-0.	-0.	.0000	.0000	-.0000	-.0000	.0000	-.0000
25	255	-1.	-0.	-14.	-0.	-0.	0.	-.0000	-.0000	-.0000	.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

[redacted] 255 [redacted] -1. [redacted] 0. [redacted] 0. [redacted] -0. [redacted] -0. [redacted] 0. [redacted] .0000 [redacted] .0000 [redacted] .0000 [redacted] .0000 [redacted] .0000 [redacted] .0000 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
MODE 20 FREQUENCY 48.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

NINE MILE POWER STAT MODEL 1 Y SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1 1 5 BEG SQ.RT.SUM OF SQ	587.	776.	460.	34901.	29993.	93276.	0.000	0.000	0.000	0.0000	0.0000	0.0000
1 1 10 END SQ.RT.SUM OF SQ	587.	776.	460.	34582.	29732.	93809.	.000	.000	.000	.0000	.0000	.0000
1 2 10 BEG SQ.RT.SUM OF SQ	587.	776.	460.	34582.	29732.	93809.	.000	.000	.000	.0000	.0000	.0000
1 2 15 END SQ.RT.SUM OF SQ	587.	776.	460.	11377.	15602.	100858.	.003	.001	.001	.0000	.0000	.0001
2 1 15 BEG SQ.RT.SUM OF SQ	570.	756.	447.	11377.	15602.	100858.	.003	.001	.001	.0000	.0000	.0001
2 1 20 END SQ.RT.SUM OF SQ	570.	756.	447.	11688.	15602.	105236.	.005	.001	.002	.0000	.0000	.0001
3 1 20 BEG SQ.RT.SUM OF SQ	469.	1250.	367.	11532.	7751.	180494.	.005	.001	.002	.0000	.0000	.0001
3 1 25 END SQ.RT.SUM OF SQ	469.	1250.	367.	19269.	7751.	170635.	.009	.001	.003	.0000	.0000	.0001
3 2 25 BEG SQ.RT.SUM OF SQ	469.	1250.	367.	19269.	7751.	170635.	.009	.001	.003	.0000	.0000	.0001
3 2 30 END SQ.RT.SUM OF SQ	469.	1250.	367.	30831.	7751.	161904.	.012	.001	.005	.0000	.0000	.0001
4 1 30 BEG SQ.RT.SUM OF SQ	457.	1246.	285.	30831.	7751.	161904.	.012	.001	.005	.0000	.0000	.0001
4 1 35 END SQ.RT.SUM OF SQ	457.	1246.	285.	40019.	7751.	151831.	.014	.001	.006	.0000	.0000	.0000
4 2 35 BEG SQ.RT.SUM OF SQ	457.	1246.	285.	40019.	7751.	151831.	.014	.001	.006	.0000	.0000	.0000
4 2 40 END SQ.RT.SUM OF SQ	457.	1246.	285.	49585.	7751.	142904.	.015	.001	.006	.0000	.0000	.0000
5 1 40 BEG SQ.RT.SUM OF SQ	464.	1244.	178.	49585.	7751.	142904.	.015	.001	.006	.0000	.0000	.0000
5 1 45 END SQ.RT.SUM OF SQ	464.	1244.	178.	55014.	7751.	131649.	.016	.001	.007	.0000	.0000	.0000
5 2 45 BEG SQ.RT.SUM OF SQ	464.	1244.	178.	55014.	7751.	131649.	.016	.001	.007	.0000	.0000	.0000

5 2 45 BEG
SQ,R[redacted] CF [redacted] 46[redacted] 244[redacted] 178.[redacted] 5014[redacted] 775[redacted] 3164[redacted] ,0[redacted] ,001[redacted] 07 [redacted] ,[redacted] ,00[redacted]

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
5 2 50 END SQ,RT,SUM OF SQ	464.	1244.	178.	60618.	7751.	121604.	.016	.001	.007	.0000	.0000	.0000
6 1 50 BEG SQ,RT,SUM OF SQ	517.	1242.	97.	60618.	7751.	121604.	.016	.001	.007	.0000	.0000	.0000
6 1 55 END SQ,RT,SUM OF SQ	517.	1242.	97.	58140.	7751.	97063.	.013	.001	.007	.0000	.0000	.0000
6 2 55 BEG SQ,RT,SUM OF SQ	517.	1242.	97.	58140.	7751.	97063.	.013	.001	.007	.0000	.0000	.0000
6 2 57 END SQ,RT,SUM OF SQ	517.	1242.	97.	56021.	7751.	76043.	.010	.001	.006	.0000	.0000	.0001
7 1 57 BEG SQ,RT,SUM OF SQ	851.	1257.	584.	56021.	7751.	76043.	.010	.001	.006	.0000	.0000	.0001
7 1 60 END SQ,RT,SUM OF SQ	851.	1257.	584.	32994.	7751.	44548.	.007	.001	.005	.0000	.0000	.0001
7 2 60 BEG SQ,RT,SUM OF SQ	851.	1257.	584.	32994.	7751.	44548.	.007	.001	.005	.0000	.0000	.0001
7 2 65 END SQ,RT,SUM OF SQ	851.	1257.	584.	10476.	7751.	21455.	.005	.001	.003	.0000	.0000	.0001
7 3 65 BEG SQ,RT,SUM OF SQ	851.	1257.	584.	10476.	7751.	21455.	.005	.001	.003	.0000	.0000	.0001
7 3 70 END SQ,RT,SUM OF SQ	851.	1257.	584.	10922.	7751.	30845.	.002	.001	.002	.0000	.0000	.0001
8 1 70 BEG SQ,RT,SUM OF SQ	887.	1265.	638.	10922.	7751.	30845.	.002	.001	.002	.0000	.0000	.0001
8 1 75 END SQ,RT,SUM OF SQ	887.	1265.	638.	11269.	7751.	31226.	.002	.001	.002	.0000	.0000	.0001
8 2 75 BEG SQ,RT,SUM OF SQ	887.	1265.	638.	11269.	7751.	31226.	.002	.001	.002	.0000	.0000	.0001
8 2 80 END SQ,RT,SUM OF SQ	887.	1265.	638.	38674.	27451.	34694.	.000	.000	.000	.0000	.0000	.0000
8 3 80 BEG SQ,RT,SUM OF SQ	887.	1265.	638.	38674.	27451.	34694.	.000	.000	.000	.0000	.0000	.0000
8 3 85 END SQ,RT,SUM OF SQ	887.	1265.	638.	38674.	27853.	34711.	.000	.000	.000	.0000	.0000	.0000

8 3 85 END
SQ.RT.SUM OF 887 265 536. 8674 7853 3471 .00 000 00 .0000 .0000

NINE MILE POWER STAT MODEL 1 Y SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
9 1 85 BEG SQ.RT.SUM OF SQ	887.	1270.	647.	38674.	27853.	34711.	.000	.000	.000	.0000	.0000	.0000
9 1 86 END SQ.RT.SUM OF SQ	887.	1270.	647.	38835.	46689.	49864.	.000	.000	.000	.0006	.0000	.0000
9 2 86 BEG SQ.RT.SUM OF SQ	887.	1270.	647.	38835.	46689.	49864.	.000	.000	.000	.0006	.0000	.0000
9 2 87 END SQ.RT.SUM OF SQ	887.	1270.	647.	9912.	46689.	65310.	.000	.000	.000	.0006	.0000	.0000
10 1 87 BEG SQ.RT.SUM OF SQ	355.	107.	511.	22793.	43495.	9452.	0.000	0.000	0.000	0.0000	0.0000	0.0000
10 1 88 END SQ.RT.SUM OF SQ	355.	107.	511.	23401.	29429.	12822.	.000	.000	.000	.0000	.0000	.0000
10 2 88 BEG SQ.RT.SUM OF SQ	355.	107.	511.	23401.	29429.	12822.	.000	.000	.000	.0000	.0000	.0000
10 2 90 END SQ.RT.SUM OF SQ	355.	107.	511.	20306.	16498.	13380.	.000	.000	.000	.0006	.0000	.0000
11 1 90 BEG SQ.RT.SUM OF SQ	346.	101.	504.	20306.	16498.	13380.	.000	.000	.000	.0000	.0000	.0000
11 1 95 END SQ.RT.SUM OF SQ	346.	101.	504.	20247.	16244.	13390.	.000	.000	.000	.0000	.0000	.0000
11 2 95 BEG SQ.RT.SUM OF SQ	346.	101.	504.	20247.	16244.	13390.	.000	.000	.000	.0006	.0000	.0000
11 2 100 END SQ.RT.SUM OF SQ	346.	101.	504.	6892.	3088.	1361.	.001	.001	.001	.0000	.0000	.0000
12 1 100 BEG SQ.RT.SUM OF SQ	253.	39.	400.	6892.	3088.	1361.	.001	.001	.001	.0006	.0000	.0000
12 1 105 END SQ.RT.SUM OF SQ	253.	39.	400.	12885.	3088.	5156.	.001	.001	.001	.0006	.0000	.0000
12 2 105 BEG SQ.RT.SUM OF SQ	253.	39.	400.	12885.	3088.	5158.	.001	.001	.001	.0000	.0000	.0000
12 2 107 END SQ.RT.SUM OF SQ	253.	39.	400.	34858.	3088.	19082.	.001	.001	.002	.0000	.0000	.0000
13 1 107 BEG SQ.RT.SUM OF SQ	46.	45.	78.	34858.	3088.	19082.	.001	.001	.002	.0000	.0000	.0000

NINE MILE POWER STAT MODEL 1 Y SHOCK

13 1 107 BEG
SQ,R[redacted] OF [redacted] 4[redacted] 45[redacted] 78,[redacted]4855[redacted] 308[redacted] 190[redacted] ,00[redacted] ,001[redacted] 002 [redacted] ,0000 ,0000 [redacted]

NINE MILE POWER STAT MODEL 1 Y SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
13 1 110 END SQ,RT,SUM OF SQ	46.	45.	78.	37621.	3088.	20716.	.002	.001	.003	.0000	.0000	.0000
13 2 110 BEG SQ,RT,SUM OF SQ	46.	45.	78.	37621.	3088.	20716.	.002	.001	.003	.0000	.0000	.0000
13 2 115 END SQ,RT,SUM OF SQ	46.	45.	78.	40383.	3088.	22351.	.002	.001	.003	.0000	.0000	.0000
14 1 115 BEG SQ,RT,SUM OF SQ	54.	79.	95.	40383.	3088.	22351.	.002	.001	.003	.0000	.0000	.0000
14 1 120 END SQ,RT,SUM OF SQ	54.	79.	95.	37020.	3088.	20423.	.002	.001	.003	.0000	.0000	.0000
14 2 120 BEG SQ,RT,SUM OF SQ	54.	79.	95.	37020.	3088.	20423.	.002	.001	.003	.0000	.0000	.0000
14 2 125 END SQ,RT,SUM OF SQ	54.	79.	95.	33656.	3088.	18494.	.001	.001	.003	.0000	.0000	.0000
15 1 125 BEG SQ,RT,SUM OF SQ	155.	119.	281.	33656.	3088.	18494.	.001	.001	.003	.0000	.0000	.0000
15 1 130 END SQ,RT,SUM OF SQ	155.	119.	281.	20159.	3088.	11056.	.001	.001	.002	.0000	.0000	.0000
15 2 130 BEG SQ,RT,SUM OF SQ	155.	119.	281.	20159.	3088.	11056.	.001	.001	.002	.0000	.0000	.0000
15 2 135 END SQ,RT,SUM OF SQ	155.	119.	281.	6663.	3088.	3619.	.000	.001	.001	.0000	.0000	.0000
16 1 135 BEG SQ,RT,SUM OF SQ	188.	160.	366.	6663.	3088.	3619.	.000	.001	.001	.0000	.0000	.0000
16 1 140 END SQ,RT,SUM OF SQ	188.	160.	366.	1963.	3088.	1201.	.000	.001	.001	.0000	.0000	.0000
16 2 140 BEG SQ,RT,SUM OF SQ	188.	160.	366.	1963.	3088.	1201.	.000	.001	.001	.0000	.0000	.0000
16 2 145 END SQ,RT,SUM OF SQ	188.	160.	366.	17222.	9412.	11428.	.000	.000	.000	.0000	.0000	.0000
16 3 145 BEG SQ,RT,SUM OF SQ	188.	160.	366.	17222.	9412.	11428.	.000	.000	.000	.0000	.0000	.0000
16 3 150 END SQ,RT,SUM OF SQ	188.	160.	366.	17339.	9528.	11539.	.000	.000	.000	.0000	.0000	.0000

NINE MILE POWER STAT MODEL 1 Y SHOCK

16 3 150 END
SQ.R[redacted] OF [redacted] 18[redacted] 16[redacted] 366 [redacted] 733[redacted] 952[redacted] 115[redacted] .0[redacted] .00[redacted] 00 [redacted] .0000 .0000 [redacted]

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
17 1 150 BEG SQ.RT.SUM OF SQ	188.	164.	369.	17339.	9528.	11539.	.000	.000	.000	.0000	.0000	.0000
17 1 155 END SQ.RT.SUM OF SQ	188.	164.	369.	23886.	16066.	17775.	.000	.000	.000	.0000	.0000	.0000
18 1 20 BEG SQ.RT.SUM OF SQ	155.	1611.	212.	7412.	14496.	285367.	.005	.001	.002	.0000	.0000	.0001
18 1 160 END SQ.RT.SUM OF SQ	155.	1611.	212.	7412.	10147.	237129.	.005	.011	.003	.0000	.0000	.0005
18 2 160 BEG SQ.RT.SUM OF SQ	155.	1611.	212.	7412.	10147.	237129.	.005	.011	.003	.0000	.0000	.0005
18 2 165 END SQ.RT.SUM OF SQ	155.	1611.	212.	7412.	9044.	189685.	.005	.033	.003	.0001	.0000	.0009
18 3 165 BEG SQ.RT.SUM OF SQ	155.	1611.	212.	7412.	9044.	189685.	.005	.033	.003	.0001	.0000	.0009
18 3 167 END SQ.RT.SUM OF SQ	155.	1611.	212.	7412.	13565.	130248.	.005	.072	.003	.0001	.0000	.0010
19 1 167 BEG SQ.RT.SUM OF SQ	94.	1064.	86.	7412.	13565.	130248.	.005	.072	.003	.0001	.0000	.0010
19 1 170 END SQ.RT.SUM OF SQ	94.	1064.	86.	7412.	10437.	87835.	.005	.118	.003	.0001	.0000	.0012
19 2 170 BEG SQ.RT.SUM OF SQ	94.	1064.	86.	7412.	10437.	87835.	.005	.118	.003	.0001	.0000	.0012
19 2 175 END SQ.RT.SUM OF SQ	94.	1064.	86.	7412.	7582.	45936.	.005	.170	.002	.0001	.0000	.0014
20 1 175 BEG SQ.RT.SUM OF SQ	91.	810.	129.	7412.	7582.	45936.	.005	.170	.002	.0001	.0000	.0014
20 1 180 END SQ.RT.SUM OF SQ	91.	810.	129.	7412.	3406.	14423.	.005	.227	.001	.0001	.0000	.0014
20 2 180 BEG SQ.RT.SUM OF SQ	91.	810.	129.	7412.	3406.	14423.	.005	.227	.001	.0001	.0000	.0014
20 2 185 END SQ.RT.SUM OF SQ	91.	810.	129.	7412.	2901.	6592.	.005	.255	.002	.0001	.0000	.0014
20 3 185 BEG SQ.RT.SUM OF SQ	91.	810.	129.	7412.	2901.	6592.	.005	.255	.002	.0001	.0000	.0014

20 3 185 BEG
SQ,RT,SUM OF SQ 91 810. 129. 7412 2901 6597 .005 255 .002 .0001 .0000 .0014

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF NODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
20 3 190 END SQ,RT,SUM OF SQ	91.	810.	129.	23376.	4148.	20364.	.003	.281	.002	.0002	.0000	.0014
21 1 190 BEG SQ,RT,SUM OF SQ	77.	459.	120.	23376.	4148.	20364.	.003	.281	.002	.0002	.0000	.0014
21 1 195 END SQ,RT,SUM OF SQ	77.	459.	120.	23534.	4153.	20364.	.003	.281	.002	.0002	.0000	.0014
21 2 195 BEG SQ,RT,SUM OF SQ	77.	459.	120.	23534.	4153.	20364.	.003	.281	.002	.0002	.0000	.0014
21 2 200 END SQ,RT,SUM OF SQ	77.	459.	120.	23695.	4158.	20364.	.003	.281	.002	.0002	.0000	.0014
21 3 200 BEG SQ,RT,SUM OF SQ	77.	459.	120.	23695.	4158.	20364.	.003	.281	.002	.0002	.0000	.0014
21 3 205 END SQ,RT,SUM OF SQ	77.	459.	120.	33217.	2350.	10889.	.003	.247	.002	.0003	.0000	.0013
22 1 205 BEG SQ,RT,SUM OF SQ	61.	259.	117.	33217.	2350.	10889.	.003	.247	.002	.0003	.0000	.0013
22 1 210 END SQ,RT,SUM OF SQ	61.	259.	117.	33217.	1417.	8167.	.003	.233	.002	.0004	.0000	.0013
22 2 210 BEG SQ,RT,SUM OF SQ	61.	259.	117.	33217.	1417.	8167.	.003	.233	.002	.0004	.0000	.0013
22 2 215 END SQ,RT,SUM OF SQ	61.	259.	117.	33217.	1237.	5445.	.003	.220	.002	.0004	.0000	.0013
22 3 215 BEG SQ,RT,SUM OF SQ	61.	259.	117.	33217.	1237.	5445.	.003	.220	.002	.0004	.0000	.0013
22 3 220 END SQ,RT,SUM OF SQ	61.	259.	117.	38481.	3413.	0.	.003	.182	.003	.0006	.0000	.0014
23 1 220 BEG SQ,RT,SUM OF SQ	29.	87.	104.	38481.	3413.	0.	.003	.182	.003	.0006	.0000	.0014
23 1 225 END SQ,RT,SUM OF SQ	29.	87.	104.	37464.	3466.	0.	.003	.173	.003	.0006	.0000	.0014
23 2 225 BEG SQ,RT,SUM OF SQ	29.	87.	104.	37464.	3466.	0.	.003	.173	.003	.0006	.0000	.0014
23 2 230 END SQ,RT,SUM OF SQ	29.	87.	104.	35247.	3813.	0.	.003	.149	.003	.0007	.0000	.0014

23 2 230 END
SG.RT.SUM OF SG 29. 87. 104. 35247. 3813. 0. .003 .149 .003 .0007 .0000 .0014

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF NODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23 3 230 BEG SG.RT.SUM OF SG	29.	87.	104.	35247.	3813.	0.	.003	.140	.003	.0007	.0000	.0014
23 3 235 END SG.RT.SUM OF SG	29.	87.	104.	33202.	4409.	0.	.003	.124	.003	.0007	.0000	.0014
23 4 235 BEG SG.RT.SUM OF SG	29.	87.	104.	33202.	4409.	0.	.003	.124	.003	.0007	.0000	.0014
23 4 240 END SG.RT.SUM OF SG	29.	87.	104.	31364.	5167.	0.	.003	.095	.003	.0008	.0000	.0014
24 1 240 BEG SG.RT.SUM OF SG	46.	280.	86.	31364.	5167.	0.	.003	.095	.003	.0008	.0000	.0014
24 1 245 END SG.RT.SUM OF SG	46.	280.	86.	20909.	3444.	0.	.002	.065	.003	.0008	.0000	.0014
24 2 245 BEG SG.RT.SUM OF SG	46.	280.	86.	20909.	3444.	0.	.002	.065	.003	.0008	.0000	.0014
24 2 250 END SG.RT.SUM OF SG	46.	280.	86.	10455.	1722.	0.	.001	.033	.003	.0009	.0000	.0014
24 3 250 BEG SG.RT.SUM OF SG	46.	280.	86.	10455.	1722.	0.	.001	.033	.003	.0009	.0000	.0014
24 3 255 DIS SG.RT.SUM OF SG	0.	0.	0.	0.	0.	0.	.000	.000	.003	.0009	.0000	.0014
24 3 255 END SG.RT.SUM OF SG	46.	280.	86.	0.	0.	0.	.000	.000	.003	.0009	.0000	.0014

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
RMS MODAL SUMMARY
NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	587.	776.	460.	34901.	29993.	93776.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	31.	25.	29.	0.	0.	0.	.0029	.0010	.0012	.0000	.0000	.0001
3	20	59.	34.	49.	0.	0.	0.	.0054	.0010	.0020	.0000	.0000	.0001
4	30	120.	40.	97.	0.	0.	0.	.0122	.0010	.0046	.0000	.0000	.0001
5	40	139.	40.	125.	0.	0.	0.	.0155	.0010	.0065	.0000	.0000	.0000
6	50	213.	61.	206.	0.	0.	0.	.0156	.0010	.0072	.0000	.0000	.0000
7	57	609.	205.	558.	0.	0.	0.	.0100	.0011	.0057	.0000	.0000	.0001
8	70	58.	51.	63.	0.	0.	0.	.0022	.0011	.0021	.0000	.0000	.0001
9	85	8.	15.	17.	0.	0.	0.	.0001	.0001	.0001	.0000	.0000	.0000
10	87	956.	1275.	824.	24855.	63810.	65990.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	9.	6.	7.	0.	0.	0.	.0000	.0000	.0000	.0000	.0000	.0000
12	100	93.	62.	104.	0.	0.	0.	.0008	.0006	.0009	.0000	.0000	.0000
13	107	207.	84.	322.	0.	0.	0.	.0014	.0006	.0022	.0000	.0000	.0000
14	115	100.	34.	173.	0.	0.	0.	.0016	.0006	.0028	.0000	.0000	.0000
15	125	101.	40.	186.	0.	0.	0.	.0014	.0006	.0026	.0000	.0000	.0000
16	135	33.	40.	85.	0.	0.	0.	.0005	.0006	.0012	.0000	.0000	.0000
17	150	1.	4.	3.	0.	0.	0.	.0000	.0001	.0001	.0000	.0000	.0000
18	155	188.	164.	369.	23886.	16066.	17775.	.0000	.0000	.0000	.0000	.0000	.0000
19	167	102.	775.	267.	0.	0.	0.	.0054	.0721	.0035	.0001	.0000	.0010
20	175	25.	288.	60.	0.	0.	0.	.0054	.1705	.0024	.0001	.0000	.0014
21	190	18.	367.	29.	0.	0.	0.	.0033	.2810	.0023	.0002	.0000	.0014
22	205	18.	217.	14.	0.	0.	0.	.0025	.2472	.0024	.0003	.0000	.0013
23	220	40.	330.	13.	0.	0.	0.	.0029	.1821	.0027	.0006	.0000	.0014
24	240	71.	245.	18.	0.	0.	0.	.0027	.0953	.0027	.0008	.0000	.0014
25	255	46.	280.	86.	0.	0.	0.	.0000	.0000	.0027	.0009	.0000	.0014

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK
RMS MODAL SUMMARY
NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
1	1	5	BEG	RU	85.7	57.8	180.9	0.0	1.000	1.000
		10	END	RU	85.7	57.2	180.7	0.0	1.000	1.000
1	2	10	BEG	EL	85.7	126.2	212.8	0.0	2.208	2.208
		15	END	EL	-13.5	388.2	389.1	0.0	2.208	2.208
2	1	15	BEG	RU	-13.5	175.8	177.9	0.0	1.000	1.000
		20	END	RU	-13.5	183.4	185.4	0.0	1.000	1.000
3	1	20	BEG	RU	-6.7	313.2	313.5	0.0	1.000	1.000
		25	END	RU	-6.7	297.4	297.7	0.0	1.000	1.000
3	2	25	BEG	RU	-6.7	297.4	297.7	0.0	1.000	1.000
		30	END	RU	-6.7	285.5	285.8	0.0	1.000	1.000
4	1	30	BEG	RU	-6.7	285.5	285.8	0.0	1.000	1.000
		35	END	RU	-6.7	271.9	272.3	0.0	1.000	1.000
4	2	35	BEG	RU	-6.7	271.9	272.3	0.0	1.000	1.000
		40	END	RU	-6.7	262.0	262.3	0.0	1.000	1.000
5	1	40	BEG	RU	-6.7	262.0	262.3	0.0	1.000	1.000
		45	END	RU	-6.7	247.1	247.5	0.0	1.000	1.000
5	2	45	BEG	RU	-6.7	247.1	247.5	0.0	1.000	1.000
		50	END	RU	-6.7	235.3	235.7	0.0	1.000	1.000
6	1	50	BEG	RU	-6.7	235.3	235.7	0.0	1.000	1.000
		55	END	RU	-6.7	196.0	196.4	0.0	1.000	1.000
6	2	55	BEG	RU	-3.3	96.0	96.3	0.0	1.000	1.000
		57	END	RU	-3.3	80.2	80.4	0.0	1.000	1.000
7	1	57	BEG	RU	-6.7	163.6	164.1	0.0	1.000	1.000
		60	END	RU	-6.7	96.0	96.9	0.0	1.000	1.000
7	2	60	BEG	RU	-6.7	96.0	96.9	0.0	1.000	1.000
		65	END	RU	-6.7	41.4	43.5	0.0	1.000	1.000
7	3	65	BEG	RU	-6.7	41.4	43.5	0.0	1.000	1.000
		70	END	RU	-6.7	56.7	58.2	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
6	1	70	BEG	RU	-6.7	56.7	58.2	0.0	1.000	1.000
		75	END	RU	-6.7	57.5	59.0	0.0	1.000	1.000
8	2	75	BEG	EL	-6.7	127.0	127.7	0.0	2.208	2.208
		80	END	EL	30.0	181.5	191.2	0.0	2.208	2.208
6	3	80	BEG	RU	30.0	82.2	101.8	0.0	1.000	1.000
		85	END	RU	30.0	82.6	102.1	0.0	1.000	1.000
9	1	85	BEG	RU	6.6	18.3	22.5	0.0	1.000	1.000
		86	END	RU	6.3	27.2	30.0	0.0	1.000	1.000
9	2	86	BEG	RU	6.3	27.2	30.0	0.0	1.000	1.000
		87	END	RU	8.9	25.2	30.9	0.0	1.000	1.000
10	1	87	BEG	RU	4.6	16.7	19.1	0.0	1.000	1.000
		88	END	RU	4.8	11.7	15.2	0.0	1.000	1.000
10	2	88	BEG	RU	4.8	11.7	15.2	0.0	1.000	1.000
		90	END	RU	-1.8	10.6	11.2	0.0	1.000	1.000
11	1	90	BEG	RU	-8.3	48.1	50.9	0.0	1.000	1.000
		95	END	RU	-8.3	47.8	50.6	0.0	1.000	1.000
11	2	95	BEG	EL	-8.3	105.5	106.8	0.0	2.208	2.208
		100	END	EL	2.7	26.9	27.4	0.0	2.208	2.208
12	1	100	BEG	RU	2.7	12.2	13.3	0.0	1.000	1.000
		105	END	RU	2.7	24.0	24.6	0.0	1.000	1.000
12	2	105	BEG	RU	1.3	11.8	12.1	0.0	1.000	1.000
		107	END	RU	1.3	33.7	33.8	0.0	1.000	1.000
13	1	107	BEG	RU	2.7	68.8	69.0	0.0	1.000	1.000
		110	END	RU	2.7	74.4	74.6	0.0	1.000	1.000
13	2	110	BEG	RU	2.7	74.4	74.6	0.0	1.000	1.000
		115	END	RU	2.7	79.9	80.1	0.0	1.000	1.000
14	1	115	BEG	RU	2.7	79.9	80.1	0.0	1.000	1.000
		120	END	RU	2.7	73.2	73.4	0.0	1.000	1.000
14	2	120	BEG	RU	2.7	73.2	73.4	0.0	1.000	1.000
		125	END	RU	2.7	66.5	66.7	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE,
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
15	1	125	BEG	RU	2.7	66.5	66.7	0.0	1.000	1.000
		130	END	RU	2.7	39.8	40.2	0.0	1.000	1.000
15	2	130	BEG	RU	2.7	39.8	40.2	0.0	1.000	1.000
		135	END	RU	2.7	13.1	14.2	0.0	1.000	1.000
16	1	135	BEG	RU	2.7	13.1	14.2	0.0	1.000	1.000
		140	END	RU	2.7	4.0	6.7	0.0	1.000	1.000
16	2	140	BEG	EL	2.7	8.8	10.3	0.0	2.208	2.208
		145	END	EL	-15.4	54.1	62.3	0.0	2.208	2.208
16	3	145	BEG	RU	-15.4	24.5	39.3	0.0	1.000	1.000
		150	END	RU	-15.5	24.8	39.7	0.0	1.000	1.000
17	1	150	BEG	RU	-15.5	24.8	39.7	0.0	1.000	1.000
		155	END	RU	-21.6	39.5	58.6	0.0	1.000	1.000
18	1	20	BEG	RU	-37.6	2900.4	2901.3	0.0	1.000	1.000
		160	END	RU	-37.6	2409.2	2410.4	0.0	1.000	1.000
18	2	160	BEG	RU	-37.6	2409.2	2410.4	0.0	1.000	1.000
		165	END	RU	-37.6	1927.6	1929.1	0.0	1.000	1.000
18	3	165	BEG	RU	-14.7	751.8	752.3	0.0	1.000	1.000
		167	END	RU	-14.7	518.4	519.2	0.0	1.000	1.000
19	1	167	BEG	RU	-37.6	1329.2	1331.4	0.0	1.000	1.000
		170	END	RU	-37.6	897.8	901.0	0.0	1.000	1.000
19	2	170	BEG	RU	-37.6	897.8	901.0	0.0	1.000	1.000
		175	END	RU	-37.6	472.6	478.5	0.0	1.000	1.000
20	1	175	BEG	RU	-37.6	472.6	478.5	0.0	1.000	1.000
		180	END	RU	-37.6	150.4	168.2	0.0	1.000	1.000
20	2	180	BEG	RU	-37.6	150.4	168.2	0.0	1.000	1.000
		185	END	RU	-37.6	73.1	104.9	0.0	1.000	1.000
20	3	185	BEG	EL	-37.6	129.9	150.1	0.0	1.777	1.777
		190	END	EL	104.6	424.4	473.2	0.0	1.777	1.777
21	1	190	BEG	RU	104.6	238.9	317.5	0.0	1.000	1.000
		195	END	RU	104.6	240.5	318.7	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Y SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE,
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEG	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	INTENSIFICATION FACTORS TRANSVERSE
21	2	195	BEG	RU	104.6	240.5	318.7	0.0	1.000	1.000
		200	END	RU	104.6	242.1	319.9	0.0	1.000	1.000
21	3	200	BEG	EL	104.6	430.1	478.3	0.0	1.777	1.777
		205	END	EL	168.6	200.9	392.5	0.0	1.777	1.777
22	1	205	BEG	RU	168.6	113.1	355.6	0.0	1.000	1.000
		210	END	RU	168.6	84.1	347.5	0.0	1.000	1.000
22	2	210	BEG	RU	168.6	84.1	347.5	0.0	1.000	1.000
		215	END	RU	168.6	56.7	341.9	0.0	1.000	1.000
22	3	215	BEG	EL	168.6	100.7	351.9	0.0	1.777	1.777
		220	END	EL	.0	696.8	696.8	0.0	1.777	1.777
23	1	220	BEG	RU	.0	392.1	392.1	0.0	1.000	1.000
		225	END	RU	.0	381.9	381.9	0.0	1.000	1.000
23	2	225	BEG	RU	.0	381.9	381.9	0.0	1.000	1.000
		230	END	RU	.0	359.9	359.9	0.0	1.000	1.000
23	3	230	BEG	RU	.0	359.9	359.9	0.0	1.000	1.000
		235	END	RU	.0	340.0	340.0	0.0	1.000	1.000
23	4	235	BEG	RU	.0	340.0	340.0	0.0	1.000	1.000
		240	END	RU	.0	322.7	322.7	0.0	1.000	1.000
24	1	240	BEG	RU	.0	322.7	322.7	0.0	1.000	1.000
		245	END	RU	.0	215.1	215.1	0.0	1.000	1.000
24	2	245	BEG	RU	.0	215.1	215.1	0.0	1.000	1.000
		250	END	RU	.0	107.6	107.6	0.0	1.000	1.000
24	3	250	BEG	RU	.0	107.6	107.6	0.0	1.000	1.000
		255	END	RU	.0	.0	.0	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

VERSION ¬ ADLPIPE¬ JULY, 1975
REFERENCE¬ ADLPIPE MANUAL, DATED JANUARY 1975

FEATURES OF ADLPIPE¬

1. ASME SECTION III , CLASS 1 STRESS ANALYSIS AND STRESS REPORT PER NB 3600
2. ASME SECTION III , CLASS 1 USAGE FACTOR CALCULATION
3. ASME SECTION III , CLASS 2 AND 3 STRESS ANALYSIS AND STRESS REPORT PER WINTER 1972 ADDENDA
4. ANSI B31.1 , 1967 AND 1973 STRESS ANALYSIS AND REPORT
5. ISOMETRIC PLOT WITH SEQUENCE NUMBERS
6. ISOMETRIC PLOTTING WITH OR WITHOUT DIMENSIONS
7. PLAN AND ELEVATION DRAWINGS WITH OR WITHOUT DIMENSIONS
8. STEREOSCOPIC VIEWS OF DEFORMED PIPING
9. SKEW RESTRAINT ADDED (SEE REFERENCED INPUT MANUAL P. 39)
10. REVISED TAPE 14 FILE STRUCTURE (SEE REFERENCED INPUT MANUAL P. 43)
11. OPTIONAL ABSOLUTE SUM ON CLOSELY SPACED MODES
    (ACTIVATE BY SPECIFYING PERCENT RANGE OF MODES TO BE ABSOLUTELY SUMMED IN Z(2) FIELD ON SHOCK CARD)
12. HANGER SUMMARY IS AUTOMATICALLY PROVIDED

FOR FURTHER INFORMATION OR COMMENT CONTACT¬
I. W. DINGWELL
A. D. LITTLE, INC
ACORN PARK
CAMBRIDGE, MASS 02140
TEL (617) 864-5770

COMPILED INPUT DATA

SA	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B3	1	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SH	1	20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI	0	3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FR	1	6	.1000	.3000	.5000	.7000	.8000	.9000
FR	7	12	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000
FR	13	17	8.0000	10.0000	20.0000	50.0000	100.0000	0.0000
G	1	6	.0540	.0580	.0700	.0936	.1100	.1200
G	7	12	.1300	.2400	.3200	.3800	.4200	.4200
G	13	17	.3900	.3500	.2400	.1400	.1100	0.0000
EN	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

PIPE SYSTEM GEOMETRY

NUMBER OF NETWORK POINTS = 25
NUMBER OF SECTIONS = 24
ORDER OF DYNAMICAL STIFFNESS MATRIX = 60

NUMBER OF MEMBERS = 56
ORDER OF STIFFNESS MATRIX = 66

NETWORK POINT RESTRAINTS

		TRANSLATION			ROTATION		
NETWORK PT.	SEQ	X	Y	Z	X	Y	Z
1	5	RST	RST	RST	RST	RST	RST
2	15	FREE	FREE	FREE	FREE	FREE	FREE
3	20	FREE	FREE	FREE	FREE	FREE	FREE
4	30	FREE	FREE	FREE	FREE	FREE	FREE
5	40	FREE	FREE	FREE	FREE	FREE	FREE
6	50	FREE	FREE	FREE	FREE	FREE	FREE
7	57	FREE	FREE	FREE	FREE	FREE	FREE
8	70	FREE	FREE	FREE	FREE	FREE	FREE
9	85	FREE	FREE	FREE	FREE	FREE	FREE
10	87	RST	RST	RST	RST	RST	RST
11	90	FREE	FREE	FREE	FREE	FREE	FREE
12	100	FREE	FREE	FREE	FREE	FREE	FREE
13	107	FREE	FREE	FREE	FREE	FREE	FREE
14	115	FREE	FREE	FREE	FREE	FREE	FREE
15	125	FREE	FREE	FREE	FREE	FREE	FREE
16	135	FREE	FREE	FREE	FREE	FREE	FREE
17	150	FREE	FREE	FREE	FREE	FREE	FREE
18	155	RST	RST	RST	RST	RST	RST
19	167	FREE	FREE	FREE	FREE	FREE	FREE
20	175	FREE	FREE	FREE	FREE	FREE	FREE
21	190	FREE	FREE	FREE	FREE	FREE	FREE
22	205	FREE	FREE	FREE	FREE	FREE	FREE
23	220	FREE	FREE	FREE	FREE	FREE	FREE
24	240	FREE	FREE	FREE	FREE	FREE	FREE
25	255	RST	RST	FREE	FREE	FREE	FREE

NETWORK POINT MOVEMENTS (INCHES)

		TRANSLATION			ROTATION		
NETWORK PT.	SEQ	X	Y	Z	X	Y	Z

NO MOVEMENTS

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

RESPONSE SPECTRA

FREQUENCY	Z AMPLITUDE
.10	52.7985
.30	6.3011
.50	2.7377
.70	1.8557
.80	1.6805
.90	1.4485
1.00	1.2711
2.00	.5866
3.00	.3476
4.00	.2322
5.00	.1643
6.00	.1141
8.00	.0596
10.00	.0342
20.00	.0059
50.00	.0005
100.00	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

* NOTE *

FOR CURVED MEMBERS, QUANTITIES LISTED UNDER INITIAL CO-ORDS ARE CO-ORDS OF ARC CENTER THE BRACKETED NUMBERS WHICH FOLLOW ARE THE ARC RADIUS (IN), INCLUDED ANGLE (DEG).

* NOTE *

FOR THIS VERSION, CO-ORD DIMENSIONS IN FEET ALL OTHER QUATITIES, RADIUS, THICKNESS, STRESS MOMENTS, ETC. ARE DIMENSIONED IN INCHES.

PIPE SYSTEM GEOMETRY

SECTION 1 CONNECTS SEQUENCE POINTS 5 AND 15 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	5	10	14.00	1.050	2.59	274.75	12.19	2.60	274.75	12.24	.27E+08	0.00	0.	44.18
2	EL/EL	10	15	14.00	1.050	2.60	271.00	12.24	(45.000	90.000)		.27E+08	0.00	0.	44.18

SECTION 2 CONNECTS SEQUENCE POINTS 15 AND 20 AND HAS 1 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	15	20	14.00	1.050	3.38	271.00	15.91	3.38	269.25	15.91	.27E+08	0.00	0.	44.18

SECTION 3 CONNECTS SEQUENCE POINTS 20 AND 30 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	20	25	14.00	1.050	3.38	269.25	15.91	3.38	266.29	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	25	30	14.00	1.050	3.38	266.29	15.91	3.38	263.32	15.91	.27E+08	0.00	0.	44.18

SECTION 4 CONNECTS SEQUENCE POINTS 30 AND 40 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	30	35	14.00	1.050	3.38	263.32	15.91	3.38	260.36	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	35	40	14.00	1.050	3.38	260.36	15.91	3.38	257.39	15.91	.27E+08	0.00	0.	44.18

SECTION 5 CONNECTS SEQUENCE POINTS 40 AND 50 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	40	45	14.00	1.050	3.38	257.39	15.91	3.38	254.43	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	45	50	14.00	1.050	3.38	254.43	15.91	3.38	251.46	15.91	.27E+08	0.00	0.	44.18

SECTION 6 CONNECTS SEQUENCE POINTS 50 AND 57 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	50	55	14.00	1.050	3.38	251.46	15.91	3.38	246.46	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	55	57	15.00	2.050	3.38	246.46	15.91	3.38	241.04	15.91	.27E+08	0.00	0.	215.20

SECTION 7 CONNECTS SEQUENCE POINTS 57 AND 70 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	57	60	14.00	1.050	3.38	241.04	15.91	3.38	237.74	15.91	.27E+08	0.00	0.	44.18
2	RU/RU	60	65	14.00	1.050	3.38	237.74	15.91	3.38	234.44	15.91	.27E+08	0.00	0.	44.18
3	RU/RU	65	70	14.00	1.050	3.38	234.44	15.91	3.38	231.64	15.91	.27E+08	0.00	0.	44.18

SECTION 8 CONNECTS SEQUENCE POINTS 70 AND 85 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	70	75	14.00	1.050	3.38	231.64	15.91	3.36	231.59	15.91	.27E+08	0.00	0.	44.18
2	EL/EL	75	80	14.00	1.050	7.11	231.59	15.49	(45.000	90.000	)	.27E+08	0.00	0.	44.18
3	RU/RU	80	85	14.00	1.050	7.11	227.84	15.49	7.16	227.84	15.49	.27E+08	0.00	0.	44.18

SECTION 9 CONNECTS SEQUENCE POINTS 85 AND 87 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	85	86	15.00	10.000	7.16	227.84	15.49	9.42	227.84	15.23	.27E+08	0.00	0.	324.36
2	RU/RU	86	87	15.00	10.000	9.42	227.84	15.23	9.42	232.17	15.23	.27E+08	0.00	0.	324.36

SECTION10 CONNECTS SEQUENCE POINTS 87 AND 90 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	87	88	15.00	10.000	9.42	232.17	15.23	12.04	232.17	15.71	.27E+08	0.00	0.	324.36
2	RU/RU	88	90	15.00	10.000	12.04	232.17	15.71	12.48	232.17	13.30	.27E+08	0.00	0.	324.36

SECTION11 CONNECTS SEQUENCE POINTS 90 AND 100 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	90	95	14.00	1.050	12.48	232.17	13.30	12.48	232.17	13.25	.27E+08	0.00	0.	44.18
2	EL/EL	95	100	14.00	1.050	12.48	235.92	13.25	(45.000	90.000	)	.27E+08	0.00	0.	44.18

SECTION12 CONNECTS SEQUENCE POINTS 100 AND 107 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	100	105	14.00	1.050	13.15	235.92	9.56	13.15	237.17	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	105	107	15.00	2.050	13.15	237.17	9.56	13.15	241.75	9.56	.27E+08	0.00	0.	173.10

SECTION13 CONNECTS SEQUENCE POINTS 107 AND 115 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	107	110	14.00	1.050	13.15	241.75	9.56	13.15	244.71	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	110	115	14.00	1.050	13.15	244.71	9.56	13.15	247.66	9.56	.27E+08	0.00	0.	44.18

SECTION14 CONNECTS SEQUENCE POINTS 115 AND 125 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	115	120	14.00	1.050	13.15	247.66	9.56	13.15	250.62	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	120	125	14.00	1.050	13.15	250.62	9.56	13.15	253.57	9.56	.27E+08	0.00	0.	44.18

SECTION15 CONNECTS SEQUENCE POINTS 125 AND 135 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	125	130	14.00	1.050	13.15	253.57	9.56	13.15	257.57	9.56	.27E+08	0.00	0.	44.18
2	RU/RU	130	135	14.00	1.050	13.15	257.57	9.56	13.15	261.57	9.56	.27E+08	0.00	0.	44.18

SECTION16 CONNECTS SEQUENCE POINTS 135 AND 150 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	135	140	14.00	1.050	13.15	261.57	9.56	13.15	262.64	9.56	.27E+08	0.00	0.	44.18
2	EL/EL	140	145	14.00	1.050	10.12	262.64	7.35	(45.000	75.997)		.27E+08	0.00	0.	44.18
3	RU/RU	145	150	14.00	1.050	10.85	266.28	7.89	10.81	266.29	7.85	.27E+08	0.00	0.	44.18

SECTION17 CONNECTS SEQUENCE POINTS 150 AND 155 AND HAS 1 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	150	155	14.00	1.050	10.81	266.29	7.85	8.47	267.02	6.15	.27E+08	0.00	0.	44.18

SECTION18 CONNECTS SEQUENCE POINTS 20 AND 167 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	20	160	7.00	.753	3.38	269.25	15.91	.80	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	160	165	7.00	.753	.80	269.25	15.91	-1.77	269.25	15.91	.27E+08	0.00	0.	13.18
3	RU/RU	165	167	8.00	1.753	-1.77	269.25	15.91	-5.14	269.25	15.91	.27E+08	0.00	0.	98.17

SECTION19 CONNECTS SEQUENCE POINTS 167 AND 175 AND HAS 2 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	167	170	7.00	.753	-5.14	269.25	15.91	-8.48	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	170	175	7.00	.753	-8.48	269.25	15.91	-11.82	269.25	15.91	.27E+08	0.00	0.	13.18

SECTION20 CONNECTS SEQUENCE POINTS 175 AND 190 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	175	180	7.00	.753	-11.82	269.25	15.91	-15.17	269.25	15.91	.27E+08	0.00	0.	13.18
2	RU/RU	180	185	7.00	.753	-15.17	269.25	15.91	-16.76	269.25	15.91	.27E+08	0.00	0.	13.18
3	EL/EL	185	190	7.00	.753	-16.76	269.37	17.65	(21.000	90.000	)	.27E+08	0.00	0.	13.18

SECTION21 CONNECTS SEQUENCE POINTS 190 AND 205 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	190	195	7.00	.753	-18.51	269.37	17.65	-18.51	269.38	17.68	.27E+08	0.00	0.	13.18
2	RU/RU	195	200	7.00	.753	-18.51	269.38	17.68	-18.51	269.38	17.71	.27E+08	0.00	0.	13.18
3	EL/EL	200	205	7.00	.753	-16.76	269.38	17.71	(21.000	90.000	)	.27E+08	0.00	0.	13.18

SECTION22 CONNECTS SEQUENCE POINTS 205 AND 220 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	205	210	7.00	.753	-16.76	269.50	19.45	-15.88	269.50	19.45	.27E+08	0.00	0.	13.18
2	RU/RU	210	215	7.00	.753	-15.88	269.50	19.45	-15.01	269.50	19.45	.27E+08	0.00	0.	13.18
3	EL/EL	215	220	7.00	.753	-15.01	269.50	21.20	(21.000	90.000	)	.27E+08	0.00	0.	13.18

SECTION23 CONNECTS SEQUENCE POINTS 220 AND 240 AND HAS 4 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	220	225	7.00	.753	-13.26	269.50	21.20	-13.26	269.50	22.57	.27E+08	0.00	0.	13.18
2	RU/RU	225	230	7.00	.753	-13.26	269.50	22.57	-13.26	269.50	25.68	.27E+08	0.00	0.	13.18

3	RU/RU	230	235	7.00	.753	-13.26	269.50	25.68	-13.26	269.50	28.79	.27E+08	0.00	0.	13.18
4	RU/RU	235	240	7.00	.753	-13.26	269.50	28.79	-13.26	269.50	31.91	.27E+08	0.00	0.	13.18

SECTION24 CONNECTS SEQUENCE POINTS 240 AND 255 AND HAS 3 MEMBERS.

MEM	TYPE	FROM	TO	OUTER RAD. IN	WALL THK. IN	INITIAL CO-ORDS X	Y	Z	FINAL CO-ORDS X	Y	Z	MODULUS LB/SQ IN	CHANGE DEG F	EXPAN. IN/IN	WEIGHT LB/IN
						FEET									
1	RU/RU	240	245	7.00	.753	-13.26	269.50	31.91	-13.26	269.50	35.02	.27E+08	0.00	0.	13.18
2	RU/RU	245	250	7.00	.753	-13.26	269.50	35.02	-13.26	269.50	38.13	.27E+08	0.00	0.	13.18
3	RU/RU	250	255	7.00	.753	-13.26	269.50	38.13	-13.26	269.50	41.25	.27E+08	0.00	0.	13.18
	WEIGHT					.66E+04									

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL DEFLECTIONS FOR 20 FREQUENCIES
DEFLECTIONS INCLUDE SHOCK SPECTRA DISPLACEMENTS AND MODAL PARTICIPATION FACTORS

		MODE AND FREQUENCY									
		1	2	3	4	5	6	7	8	9	10
LUMP	DIR	1.927	3.721	7.612	8.611	11.594	13.072	13.839	15.604	15.926	18.087
15	1	.015	.000	.009	-.007	.000	-.000	0.000	0.000	.000	.000
15	2	.002	.000	.006	-.000	-.000	.000	0.000	0.000	.000	-.000
15	3	.001	.000	.007	.003	-.000	.000	0.000	0.000	.000	-.000
20	1	.017	.000	.013	-.010	.000	-.000	0.000	0.000	.000	.000
20	2	.002	.000	.006	-.000	-.000	.000	0.000	0.000	.000	-.000
20	3	.002	.000	.012	.006	-.000	.000	0.000	0.000	.000	-.000
30	1	.026	.000	.026	-.021	-.000	-.000	0.000	0.000	-.000	.000
30	2	.002	.000	.006	-.000	-.000	.000	0.000	0.000	.000	-.000
30	3	.007	.000	.028	.018	-.000	.000	0.000	0.000	.000	-.000
40	1	.021	.000	.036	-.029	-.000	.000	0.000	0.000	-.000	.000
40	2	.002	.000	.006	-.001	-.000	.000	0.000	0.000	.000	-.000
40	3	.010	.000	.040	.027	-.000	.000	0.000	0.000	.000	-.000
50	1	.019	.000	.041	-.032	-.000	.000	0.000	0.000	-.000	.000
50	2	.002	.000	.006	-.001	-.000	.000	0.000	0.000	.000	-.000
50	3	.011	.000	.044	.031	-.000	.000	0.000	0.000	-.000	-.000
57	1	.012	.000	.031	-.023	-.000	.000	0.000	0.000	-.000	-.000
57	2	.002	.000	.006	-.001	-.000	.000	0.000	0.000	.000	-.000
57	3	.010	.000	.035	.025	.000	.000	0.000	0.000	-.000	.000
70	1	.003	.000	.009	-.004	-.000	.000	0.000	0.000	.000	-.000
70	2	.002	.000	.006	-.001	-.000	.000	0.000	0.000	.000	-.000
70	3	.007	.000	.013	.008	.000	.000	0.000	0.000	-.000	.000
85	1	-.000	.000	-.000	-.000	-.000	.000	0.000	0.000	-.000	.000
85	2	.000	-.000	.000	.000	.000	.000	0.000	0.000	.000	-.000
85	3	.006	.000	.001	.000	.000	.000	0.000	0.000	-.000	.000
90	1	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
90	2	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
90	3	0.000	0.000	0.000	0.000	0.000	0.000	.000	-.000	0.000	0.000
100	1	0.000	0.000	0.000	0.000	0.000	0.000	.004	-.002	0.000	0.000
100	2	0.000	0.000	0.000	0.000	0.000	0.000	.003	.000	0.000	0.000
100	3	0.000	0.000	0.000	0.000	0.000	0.000	.005	.001	0.000	0.000
107	1	0.000	0.000	0.000	0.000	0.000	0.000	.007	-.005	0.000	0.000
107	2	0.000	0.000	0.000	0.000	0.000	0.000	.003	.000	0.000	0.000
107	3	0.000	0.000	0.000	0.000	0.000	0.000	.011	.002	0.000	0.000
115	1	0.000	0.000	0.000	0.000	0.000	0.000	.008	-.006	0.000	0.000
115	2	0.000	0.000	0.000	0.000	0.000	0.000	.003	.000	0.000	0.000
115	3	0.000	0.000	0.000	0.000	0.000	0.000	.014	.004	0.000	0.000
125	1	0.000	0.000	0.000	0.000	0.000	0.000	.007	-.005	0.000	0.000
125	2	0.000	0.000	0.000	0.000	0.000	0.000	.003	.000	0.000	0.000
125	3	0.000	0.000	0.000	0.000	0.000	0.000	.013	.004	0.000	0.000
135	1	0.000	0.000	0.000	0.000	0.000	0.000	.002	-.002	0.000	0.000
135	2	0.000	0.000	0.000	0.000	0.000	0.000	.003	.000	0.000	0.000
135	3	0.000	0.000	0.000	0.000	0.000	0.000	.006	.002	0.000	0.000
150	1	0.000	0.000	0.000	0.000	0.000	0.000	-.000	-.000	0.000	0.000
150	2	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
150	3	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000
167	1	.017	.000	.013	-.010	.000	-.000	0.000	0.000	.000	.000
167	2	-.005	-.000	-.001	.003	.000	.000	0.000	0.000	.000	-.001
167	3	.201	.000	.016	.002	.000	-.000	0.000	0.000	.003	.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

167	2	-.005	-.000	-.001	.003	.000	.000	0.000	0.000	.000	-.001
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

175	1	.017	.000	.013	-.010	.000	-.000	0.000	0.000	.000	.000
175	2	-.011	-.000	.004	-.004	.000	.000	0.000	0.000	.000	-.000
175	3	.451	.000	.009	-.000	.001	-.000	0.000	0.000	.003	.000
190	1	.066	.000	.012	-.012	.001	-.000	0.000	0.000	-.001	.000
190	2	-.018	-.001	.016	-.015	.000	.001	0.000	0.000	-.001	.001
190	3	.707	-.000	-.002	-.004	.002	-.000	0.000	0.000	-.001	-.000
205	1	.091	.000	.013	-.015	.001	-.000	0.000	0.000	-.001	.000
205	2	-.018	-.001	.017	-.012	.000	.000	0.000	0.000	-.000	.001
205	3	.690	-.000	-.003	-.002	.001	-.000	0.000	0.000	-.000	-.000
220	1	.089	.000	.014	-.016	.002	-.000	0.000	0.000	-.001	-.000
220	2	-.007	-.000	.015	-.007	-.000	-.001	0.000	0.000	-.000	-.000
220	3	.686	-.000	-.007	.001	-.000	.000	0.000	0.000	-.000	-.000
240	1	.047	.000	.011	-.012	.002	-.000	0.000	0.000	-.001	-.000
240	2	-.004	-.000	.011	-.005	-.000	-.001	0.000	0.000	-.000	.000
240	3	.687	-.000	-.007	.001	-.000	.000	0.000	0.000	-.000	-.000
255	3	.687	-.000	-.007	.001	-.000	.000	0.000	0.000	-.001	-.000

MODE AND FREQUENCY

		11	12	13	14	15	16	17	18	19	20
LUMP	DIR	21.273	23.561	27.611	28.677	31.573	32.317	36.573	41.836	47.390	48.929

MODAL DEFLECTIONS ARE LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 1 FREQUENCY 1.93

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	197.	1030.	-3522.	106203.	-465551.	157806.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-197.	-1030.	3522.	-106807.	466107.	-157677.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
1	2	15	END	-197.	-1030.	3522.	6342.	507727.	-139176.	.0154	.0024	.0007	-.0001	.0005	.0001
2	1	15	BEG	209.	1032.	-3521.	-6342.	-507727.	139176.	.0154	.0024	.0007	-.0001	.0005	.0001
2	1	20	END	-209.	-1032.	3521.	80287.	507727.	-134787.	.0170	.0024	.0024	-.0001	.0006	.0001
3	1	20	BEG	232.	1022.	55.	-75149.	154500.	136889.	.0170	.0024	.0024	-.0001	.0006	.0001
3	1	25	END	-232.	-1022.	-55.	73192.	-154500.	-128643.	.0190	.0023	.0048	-.0001	.0005	.0000
3	2	30	END	-232.	-1022.	-55.	71235.	-154500.	-120398.	.0202	.0023	.0068	-.0000	.0005	.0000
4	1	30	BEG	256.	1025.	63.	-71235.	154500.	120398.	.0202	.0023	.0068	-.0000	.0005	.0000
4	1	35	END	-256.	-1025.	-63.	68990.	-154500.	-111288.	.0208	.0023	.0083	-.0000	.0005	.0000
4	2	40	END	-256.	-1025.	-63.	66745.	-154500.	-102179.	.0207	.0023	.0095	-.0000	.0004	-.0000
5	1	40	BEG	281.	1028.	75.	-66745.	154500.	102179.	.0207	.0023	.0095	-.0000	.0004	-.0000
5	1	45	END	-281.	-1028.	-75.	64092.	-154500.	-92188.	.0201	.0023	.0103	-.0000	.0004	-.0000
5	2	50	END	-281.	-1028.	-75.	61440.	-154500.	-82197.	.0169	.0023	.0107	-.0000	.0004	-.0000
6	1	50	BEG	315.	1032.	94.	-61440.	154500.	82197.	.0189	.0023	.0107	-.0000	.0004	-.0000
6	1	55	END	-315.	-1032.	-94.	55801.	-154500.	-63288.	.0159	.0022	.0106	.0000	.0003	-.0001
6	2	57	END	-315.	-1032.	-94.	49693.	-154500.	-42806.	.0118	.0022	.0098	.0000	.0003	-.0001
7	1	57	BEG	387.	1045.	154.	-49693.	154500.	42806.	.0118	.0022	.0098	.0000	.0003	-.0001
7	1	60	END	-387.	-1045.	-154.	43599.	-154500.	-27480.	.0090	.0022	.0090	.0000	.0003	-.0001
7	2	65	END	-387.	-1045.	-154.	37505.	-154500.	-12154.	.0061	.0022	.0079	.0000	.0002	-.0001
7	3	70	END	-387.	-1045.	-154.	32330.	-154500.	860.	.0035	.0022	.0067	.0000	.0002	-.0001
8	1	70	BEG	392.	1049.	164.	-32330.	154500.	-860.	.0035	.0022	.0067	.0000	.0002	-.0001
8	1	75	END	-392.	-1049.	-164.	32231.	-154500.	1096.	.0034	.0022	.0067	.0000	.0002	-.0001
8	2	80	END	-392.	-1049.	-164.	30008.	-163778.	65654.	-.0001	.0002	.0004	-.0000	.0000	-.0000

8	2	80	END	-392.	-1049.	-164.	30006.	-163778.	65654.	-.0001	.0002	.0004	-.0000	.0000	-.0000

ADLPIPE PAGE 16 ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-392.	-1049.	-164.	30077.	-163901.	66277.	-.0001	.0002	.0004	-.0000	.0000	-.0000
9	1	85	BEG	392.	1050.	166.	-30077.	163901.	-66277.	-.0001	.0002	.0004	-.0000	.0000	-.0000
9	1	86	END	-392.	-1050.	-166.	33301.	-169620.	94754.	-.0001	.0000	.0001	-.0000	.0000	-.0000
9	2	87	END	-392.	-1050.	-166.	41955.	-169620.	74384.	.0000	0.0000	-.0000	-.0000	0.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ADLPIPE PAGE 17 ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-5.	12.	-3574.	-5138.	-662227.	-2102.	.0170	.0024	.0024	-.0001	.0006	.0001
18	1	160	END	5.	-12.	3574.	5138.	551799.	1726.	.0170	.0002	.0366	-.0001	.0016	.0001
18	2	165	END	5.	-12.	3574.	5138.	441372.	1350.	.0170	-.0020	.0987	-.0001	.0024	.0001
18	3	167	END	5.	-12.	3574.	5138.	296851.	858.	.0170	-.0050	.2011	-.0000	.0026	.0001
19	1	167	BEG	25.	3.	-3219.	-5138.	-296851.	-858.	.0170	-.0050	.2011	-.0000	.0026	.0001
19	1	170	END	-25.	-3.	3219.	5138.	167742.	720.	.0170	-.0086	.3189	-.0000	.0031	.0001
19	2	175	END	-25.	-3.	3219.	5138.	38633.	581.	.0170	-.0111	.4510	-.0000	.0034	.0001
20	1	175	BEG	32.	-1.	-3025.	-5138.	-38633.	-581.	.0170	-.0111	.4510	-.0000	.0034	.0001
20	1	180	END	-32.	1.	3025.	5138.	-82670.	634.	.0170	-.0142	.5864	-.0000	.0033	.0001
20	2	185	END	-32.	1.	3025.	5138.	-140453.	660.	.0169	-.0157	.6491	.0000	.0032	.0001
20	3	190	END	-32.	1.	3025.	640.	-203301.	639.	.0657	-.0175	.7066	-.0000	.0018	.0001
21	1	190	BEG	53.	-7.	-2802.	-640.	203301.	-639.	.0657	-.0175	.7066	-.0000	.0018	.0001
21	1	195	END	-53.	7.	2802.	575.	-203283.	638.	.0663	-.0175	.7066	-.0000	.0018	.0001
21	2	200	END	-53.	7.	2802.	507.	-203264.	637.	.0669	-.0175	.7066	-.0000	.0018	.0001
21	3	205	END	-53.	7.	2802.	-3550.	-143318.	415.	.0914	-.0141	.6904	.0000	.0003	.0002
22	1	205	BEG	73.	-10.	-2650.	3550.	143318.	-415.	.0914	-.0141	.6904	.0000	.0003	.0002
22	1	210	END	-73.	10.	2650.	-3550.	-115489.	311.	.0914	-.0122	.6877	.0000	.0002	.0002
22	2	215	END	-73.	10.	2650.	-3550.	-87660.	207.	.0914	-.0104	.6857	.0000	.0002	.0002
22	3	220	END	-73.	10.	2650.	-3342.	-30473.	-0.	.0887	-.0066	.6863	-.0000	-.0002	.0002
23	1	220	BEG	113.	-13.	-2337.	3342.	30473.	-0.	.0887	-.0066	.6863	-.0000	-.0002	.0002
23	1	225	END	-113.	13.	2337.	-3132.	-28619.	0.	.0846	-.0064	.6864	-.0000	-.0003	.0002
23	2	230	END	-113.	13.	2337.	-2651.	-24383.	0.	.0739	-.0057	.6865	-.0000	-.0003	.0002

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-113.	13.	2337.	-2170.	-20148.	0.	.0614	-.0048	.6866	-.0000	-.0004	.0002
23	4	240	END	-113.	13.	2337.	-1689.	-15913.	0.	.0474	-.0037	.6867	-.0000	-.0004	.0002
24	1	240	BEG	142.	-15.	-1923.	1689.	15913.	0.	.0474	-.0037	.6867	-.0000	-.0004	.0002
24	1	245	END	-142.	15.	1923.	-1126.	-10609.	0.	.0323	-.0026	.6868	-.0000	-.0004	.0002
24	2	250	END	-142.	15.	1923.	-563.	-5304.	0.	.0163	-.0013	.6869	-.0000	-.0004	.0002
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	.0000	.6869	-.0000	-.0004	.0002
24	3	255	END	-142.	15.	1923.	0.	0.	0.	-.0000	.0000	.6869	-.0000	-.0004	.0002

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 1 FREQUENCY 1.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	197.	1030.	-3522.	106203.	-465551.	157806.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	12.	2.	1.	0.	0.	-0.	.0154	.0024	.0007	-.0001	.0005	.0001
3	20	17.	2.	2.	0.	-0.	-0.	.0170	.0024	.0024	-.0001	.0006	.0001
4	30	24.	3.	8.	0.	-0.	-0.	.0202	.0023	.0068	-.0000	.0005	.0000
5	40	25.	3.	11.	0.	0.	0.	.0207	.0023	.0095	-.0000	.0004	-.0000
6	50	34.	4.	19.	0.	-0.	0.	.0189	.0023	.0107	-.0000	.0004	-.0000
7	57	72.	14.	60.	-0.	0.	0.	.0118	.0022	.0098	.0000	.0003	-.0001
8	70	5.	3.	10.	-0.	-0.	0.	.0035	.0022	.0067	.0000	.0002	-.0001
9	85	-0.	1.	2.	-0.	-0.	0.	-.0001	.0002	.0004	-.0000	.0000	-.0000
10	87	-392.	-1050.	-166.	41955.	-169820.	74384.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	30.	-9.	354.	-0.	-0.	-0.	.0170	-.0050	.2011	-.0000	.0026	.0001
20	175	7.	-5.	195.	0.	-0.	0.	.0170	-.0111	.4510	-.0000	.0034	.0001
21	190	21.	-5.	223.	-0.	0.	-0.	.0657	-.0175	.7066	-.0000	.0016	.0001
22	205	20.	-3.	152.	0.	-0.	-0.	.0914	-.0141	.6904	.0000	.0003	.0002
23	220	41.	-3.	314.	0.	0.	-0.	.0887	-.0066	.6863	-.0000	-.0002	.0002
24	240	29.	-2.	414.	0.	0.	0.	.0474	-.0037	.6867	-.0000	-.0004	.0002
25	255	-142.	15.	1923.	0.	0.	0.	-.0000	.0000	.6869	-.0000	-.0004	.0002

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

[redacted] 259 [redacted] 02. [redacted] 15. [redacted] 3. [redacted] 0. [redacted] 0. [redacted] 0 [redacted] .000 [redacted] .000 [redacted] .686 [redacted] .00 [redacted] .00 [redacted] .0

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 1 FREQUENCY 1.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

DYNAMIC PIPE STRESS ANALYSIS, MODE 2, FREQUENCY 3.72

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 3 FREQUENCY 7.61

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-3262.	-131.	-2597.	149444.	-117788.	-187570.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	3262.	131.	2597.	-149367.	116197.	187554.	.0000	.0000	.0000	-.0000	.0000	.0000
1	2	15	END	3262.	131.	2597.	-26727.	-3101.	39526.	.0091	.0056	.0073	-.0002	.0001	.0002
2	1	15	BEG	-3152.	-63.	-2509.	26727.	3101.	-39526.	.0091	.0056	.0073	-.0002	.0001	.0002
2	1	20	END	3152.	63.	2509.	25953.	-3101.	-26667.	.0131	.0056	.0122	-.0002	.0001	.0002
3	1	20	BEG	-2291.	258.	-2224.	-23055.	-29867.	-29177.	.0131	.0056	.0122	-.0002	.0001	.0002
3	1	25	END	2291.	-258.	2224.	102169.	29867.	-52350.	.0199	.0056	.0204	-.0002	.0001	.0002
3	2	30	END	2291.	-258.	2224.	181282.	29867.	-133877.	.0263	.0056	.0279	-.0002	.0001	.0002
4	1	30	BEG	-1802.	362.	-1703.	-181282.	-29867.	133877.	.0263	.0056	.0279	-.0002	.0001	.0002
4	1	35	END	1802.	-362.	1703.	241880.	29867.	-197984.	.0319	.0056	.0344	-.0002	.0001	.0001
4	2	40	END	1802.	-362.	1703.	302478.	29867.	-262090.	.0364	.0056	.0395	-.0001	.0002	.0001
5	1	40	BEG	-1123.	466.	-967.	-302478.	-29867.	262090.	.0364	.0056	.0395	-.0001	.0002	.0001
5	1	45	END	1123.	-466.	967.	336868.	29867.	-302053.	.0394	.0056	.0429	-.0001	.0002	.0001
5	2	50	END	1123.	-466.	967.	371259.	29867.	-342015.	.0407	.0056	.0443	-.0000	.0002	.0000
6	1	50	BEG	24.	624.	283.	-371259.	-29867.	342015.	.0407	.0056	.0443	-.0000	.0002	.0000
6	1	55	END	-24.	-624.	-283.	354258.	29867.	-340595.	.0383	.0056	.0419	.0001	.0002	-.0001
6	2	57	END	-24.	-624.	-283.	335843.	29867.	-339058.	.0312	.0056	.0345	.0001	.0002	-.0001
7	1	57	BEG	2970.	1149.	3545.	-335843.	-29867.	339058.	.0312	.0056	.0345	.0001	.0002	-.0001
7	1	60	END	-2970.	-1149.	-3545.	195392.	29867.	-221371.	.0247	.0055	.0278	.0002	.0002	-.0002
7	2	65	END	-2970.	-1149.	-3545.	54940.	29867.	-103683.	.0166	.0055	.0197	.0002	.0002	-.0002
7	3	70	END	-2970.	-1149.	-3545.	-64329.	29867.	-3745.	.0091	.0055	.0125	.0002	.0002	-.0002
8	1	70	BEG	3189.	1283.	3848.	64329.	-29867.	3745.	.0091	.0055	.0125	.0002	.0002	-.0002
8	1	75	END	-3189.	-1283.	-3848.	-66638.	29867.	-1832.	.0089	.0055	.0124	.0002	.0002	-.0002
8	2	80	END	-3189.	-1283.	-3848.	-233480.	-157966.	199068.	-.0000	.0003	.0005	.0000	.0000	-.0000

8	2	80 END	-3189.	-1283.	-3848.	-233480.	-157966.	199068.	-.0000	.0003	.0005	.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	-3189.	-1283.	-3848.	-233396.	-160463.	199831.	-.0000	.0003	.0005	.0000	.0000	-.0000
9	1	85	BEG	3166.	1305.	3893.	233396.	160463.	-199831.	-.0000	.0003	.0005	.0000	.0000	-.0000
9	1	86	END	-3166.	-1305.	-3893.	-229386.	-275684.	235246.	-.0001	.0006	-.0001	.0000	.0000	-.0000
9	2	87	END	-3166.	-1305.	-3893.	-26951.	-275884.	69571.	.0000	.0000	.0000	.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-650.	-231.	-88.	-2897.	32968.	55844.	.0131	.0056	.0122	-.0002	.0001	.0002
18	1	160	END	650.	231.	88.	2897.	-35700.	-48720.	.0132	.0013	.0153	-.0002	.0001	.0001
18	2	165	END	650.	231.	88.	2897.	-38432.	-41596.	.0132	-.0005	.0166	-.0002	.0000	.0000
18	3	167	END	650.	231.	86.	2897.	-42007.	-32273.	.0132	-.0009	.0165	-.0002	-.0000	-.0000
19	1	167	BEG	-287.	-255.	364.	-2897.	42007.	32273.	.0132	-.0009	.0165	-.0002	-.0000	-.0000
19	1	170	END	287.	255.	-364.	2897.	-27411.	-22035.	.0132	.0005	.0140	-.0002	-.0001	-.0001
19	2	175	END	287.	255.	-364.	2897.	-12814.	-11797.	.0132	.0038	.0093	-.0002	-.0001	-.0001
20	1	175	BEG	-198.	-230.	426.	-2897.	12814.	11797.	.0132	.0038	.0093	-.0002	-.0001	-.0001
20	1	180	END	198.	230.	-426.	2897.	4281.	-2573.	.0132	.0080	.0034	-.0002	-.0001	-.0001
20	2	185	END	198.	230.	-426.	2897.	12425.	1821.	.0132	.0102	.0007	-.0002	-.0001	-.0001
20	3	190	END	198.	230.	-426.	8353.	17230.	6948.	.0122	.0158	-.0015	-.0001	-.0000	-.0001
21	1	190	BEG	-138.	-152.	419.	-8353.	-17230.	-6948.	.0122	.0158	-.0015	-.0001	-.0000	-.0001
21	1	195	END	138.	152.	-419.	8416.	17182.	6951.	.0122	.0159	-.0015	-.0001	-.0000	-.0001
21	2	200	END	138.	152.	-419.	8481.	17133.	6955.	.0122	.0159	-.0016	-.0001	-.0000	-.0001
21	3	205	END	138.	152.	-419.	12295.	5454.	3966.	.0132	.0169	-.0032	-.0001	.0001	-.0001
22	1	205	BEG	-93.	-94.	408.	-12295.	-5454.	-3966.	.0132	.0169	-.0032	-.0001	.0001	-.0001
22	1	210	END	93.	94.	-408.	12295.	1171.	2975.	.0132	.0161	-.0041	-.0001	.0001	-.0001
22	2	215	END	93.	94.	-408.	12295.	-3112.	1983.	.0132	.0153	-.0051	-.0001	.0001	-.0001
22	3	220	END	93.	94.	-408.	14278.	-13622.	0.	.0143	.0147	-.0067	-.0000	.0000	-.0001
23	1	220	BEG	9.	11.	360.	-14278.	13622.	0.	.0143	.0147	-.0067	-.0000	.0000	-.0001
23	1	225	END	-9.	-11.	-360.	14106.	-13468.	-0.	.0145	.0149	-.0067	-.0000	.0000	-.0001
23	2	230	END	-9.	-11.	-360.	13712.	-13116.	-0.	.0142	.0147	-.0067	.0000	-.0000	-.0001

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-9.	-11.	-360.	13317.	-12764.	-0.	.0130	.0134	-.0069	.0000	-.0000	-.0001
23	4	240	END	-9.	-11.	-360.	12923.	-12411.	-0.	.0108	.0112	-.0068	.0001	-.0001	-.0001
24	1	240	BEG	111.	115.	297.	-12923.	12411.	0.	.0108	.0112	-.0068	.0001	-.0001	-.0001
24	1	245	END	-111.	-115.	-297.	8616.	-8274.	0.	.0077	.0080	-.0068	.0001	-.0001	-.0001
24	2	250	END	-111.	-115.	-297.	4308.	-4137.	0.	.0040	.0041	-.0068	.0001	-.0001	-.0001
24	3	255	DIS	0.	0.	0.	0.	0.	0.	-.0000	-.0000	-.0068	.0001	-.0001	-.0001
24	3	255	END	-111.	-115.	-297.	-0.	0.	0.	-.0000	-.0000	-.0068	.0001	-.0001	-.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 3 FREQUENCY 7.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-3262.	-131.	-2597.	149444.	-117788.	-187570.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	110.	66.	89.	0.	-0.	-0.	.0091	.0056	.0073	-.0002	.0001	.0002
3	20	211.	90.	197.	0.	-0.	-0.	.0131	.0056	.0122	-.0002	.0001	.0002
4	30	490.	105.	520.	0.	-0.	-0.	.0263	.0056	.0279	-.0002	.0001	.0002
5	40	679.	104.	737.	0.	0.	-0.	.0364	.0056	.0395	-.0001	.0002	.0001
6	50	1147.	156.	1250.	-0.	-0.	-0.	.0407	.0056	.0443	-.0000	.0002	.0000
7	57	2946.	525.	3261.	-0.	0.	0.	.0312	.0056	.0345	.0001	.0002	-.0001
8	70	219.	133.	303.	-0.	-0.	0.	.0091	.0055	.0125	.0002	.0002	-.0002
9	85	-3.	23.	45.	-0.	-0.	0.	-.0000	.0003	.0005	.0000	.0000	-.0000
10	87	-3186.	-1305.	-3893.	-26951.	-275884.	69571.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	363.	-25.	452.	-0.	-0.	-0.	.0132	-.0009	.0165	-.0002	-.0000	-.0000
20	175	89.	25.	62.	-0.	0.	0.	.0132	.0038	.0093	-.0002	-.0001	-.0001
21	190	60.	78.	-8.	0.	0.	0.	.0122	.0158	-.0015	-.0001	-.0000	-.0001
22	205	45.	58.	-11.	-0.	-0.	0.	.0132	.0169	-.0032	-.0001	.0001	-.0001
23	220	102.	105.	-48.	-0.	-0.	0.	.0143	.0147	-.0067	-.0000	.0000	-.0001
24	240	101.	105.	-63.	0.	0.	-0.	.0108	.0112	-.0068	.0001	-.0001	-.0001
25	255	-111.	-115.	-297.	-0.	0.	0.	-.0000	-.0000	-.0068	.0001	-.0001	-.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

[redacted] 255 [redacted] 11. [redacted] 5. [redacted] 7. [redacted] -0. [redacted] 0. [redacted] 0. [redacted] .0000 [redacted] .0000 [redacted] -.0060 [redacted] .0001 [redacted] -.0001 [redacted] -.0001 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 3 FREQUENCY 7.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

LOADS
SHOCK

MODE 4 FREQUENCY 8.61

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	3206.	5510.	-2470.	-28226.	82036.	247251.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-3206.	-5510.	2470.	24991.	-79845.	-246564.	-.0000	-.0000	.0000	.0000	-.0000	-.0000
1	2	15	END	-3206.	-5510.	2470.	-106413.	84398.	-50725.	-.0071	-.0002	.0033	-.0001	-.0001	-.0001
2	1	15	BEG	3096.	5507.	-2419.	106413.	-84398.	50725.	-.0071	-.0002	.0033	-.0001	-.0001	-.0001
2	1	20	END	-3096.	-5507.	2419.	-55624.	84398.	14298.	-.0104	-.0002	.0065	-.0001	-.0001	-.0001
3	1	20	BEG	2123.	5349.	-2138.	63318.	-65778.	36487.	-.0104	-.0002	.0065	-.0001	-.0001	-.0001
3	1	25	END	-2123.	-5349.	2138.	12765.	65778.	39035.	-.0158	-.0003	.0121	-.0002	-.0001	-.0001
3	2	30	END	-2123.	-5349.	2138.	88848.	65778.	114556.	-.0211	-.0004	.0176	-.0001	-.0001	-.0001
4	1	30	BEG	1620.	5339.	-1719.	-88848.	-65778.	-114556.	-.0211	-.0004	.0176	-.0001	-.0001	-.0001
4	1	35	END	-1620.	-5339.	1719.	150019.	65778.	172208.	-.0256	-.0005	.0226	-.0001	-.0000	-.0001
4	2	40	END	-1620.	-5339.	1719.	211190.	65778.	229860.	-.0292	-.0005	.0267	-.0001	-.0000	-.0001
5	1	40	BEG	924.	5326.	-1083.	-211190.	-65778.	-229860.	-.0292	-.0005	.0267	-.0001	-.0000	-.0001
5	1	45	END	-924.	-5326.	1083.	249715.	65778.	262737.	-.0314	-.0006	.0296	-.0001	-.0000	-.0000
5	2	50	END	-924.	-5326.	1083.	288241.	65778.	295614.	-.0322	-.0007	.0311	-.0000	.0000	.0000
6	1	50	BEG	-237.	5301.	38.	-288241.	-65778.	-295614.	-.0322	-.0007	.0311	-.0000	.0000	.0000
6	1	55	END	237.	-5301.	-38.	285939.	65778.	281372.	-.0295	-.0008	.0297	.0001	.0000	.0001
6	2	57	END	237.	-5301.	-38.	283445.	65778.	265944.	-.0229	-.0009	.0245	.0001	.0000	.0001
7	1	57	BEG	-3012.	5192.	3003.	-283445.	-65778.	-265944.	-.0229	-.0009	.0245	.0001	.0000	.0001
7	1	60	END	3012.	-5192.	-3003.	164466.	65778.	146604.	-.0172	-.0010	.0195	.0001	.0001	.0002
7	2	65	END	3012.	-5192.	-3003.	45488.	65778.	27265.	-.0104	-.0011	.0133	.0002	.0001	.0002
7	3	70	END	3012.	-5192.	-3003.	-55547.	65778.	-74077.	-.0044	-.0011	.0077	.0002	.0001	.0002
8	1	70	BEG	-3147.	5156.	3241.	55547.	-65778.	74077.	-.0044	-.0011	.0077	.0002	.0001	.0002
8	1	75	END	3147.	-5156.	-3241.	-57491.	65778.	-75965.	-.0043	-.0011	.0076	.0002	.0001	.0002
8	2	80	END	3147.	-5156.	-3241.	-177923.	-63675.	13045.	-.0004	.0004	.0003	.0000	.0000	-.0000

8	2	80 END	3147.	-5156.	-3241.	-177923.	-63675.	13045.	-.0004	.0004	.0003	.0000	.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	3147.	-5156.	-3241.	-177586.	-65396.	16110.	-.0004	.0004	.0003	.0000	.0000	-.0000
9	1	85	BEG	-3186.	5199.	3274.	177586.	65396.	-16110.	-.0004	.0004	.0003	.0000	.0000	-.0000
9	1	86	END	3186.	-5199.	-3274.	-161613.	-144434.	157180.	-.0004	.0000	-.0000	.0000	.0000	-.0000
9	2	87	END	3186.	-5199.	-3274.	8615.	-144434.	322859.	.0000	.0000	.0000	.0000	.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	761.	154.	-147.	-7694.	-18620.	-50785.	-.0104	-.0002	.0065	-.0001	-.0001	-.0001
18	1	160	END	-761.	-154.	147.	7694.	14079.	46037.	-.0104	.0031	.0045	-.0001	-.0001	-.0001
18	2	165	END	-761.	-154.	147.	7694.	-9537.	41289.	-.0104	.0040	.0031	-.0001	-.0000	.0000
18	3	167	END	-761.	-154.	147.	7694.	3594.	35076.	-.0104	.0033	.0019	-.0001	-.0000	.0000
19	1	167	BEG	394.	271.	-81.	-7694.	-3594.	-35076.	-.0104	.0033	.0019	-.0001	-.0000	.0000
19	1	170	END	-394.	-271.	81.	7694.	333.	24190.	-.0105	.0007	.0008	-.0001	-.0000	.0001
19	2	175	END	-394.	-271.	81.	7694.	-2928.	13305.	-.0105	-.0040	-.0002	-.0001	-.0000	.0001
20	1	175	BEG	303.	237.	-83.	-7694.	2928.	-13305.	-.0105	-.0040	-.0002	-.0001	-.0000	.0001
20	1	180	END	-303.	-237.	83.	7694.	-6270.	3787.	-.0105	-.0098	-.0015	-.0000	-.0000	.0002
20	2	185	END	-303.	-237.	83.	7694.	-7862.	-746.	-.0105	-.0127	-.0023	-.0000	-.0000	.0002
20	3	190	END	-303.	-237.	83.	2598.	-3258.	-6184.	-.0125	-.0154	-.0038	-.0000	-.0001	.0001
21	1	190	BEG	225.	140.	-107.	-2598.	3258.	6184.	-.0125	-.0154	-.0038	-.0000	-.0001	.0001
21	1	195	END	-225.	-140.	107.	2547.	-3179.	-6189.	-.0125	-.0154	-.0038	-.0000	-.0001	.0001
21	2	200	END	-225.	-140.	107.	2495.	-3100.	-6195.	-.0125	-.0154	-.0038	-.0000	-.0001	.0001
21	3	205	END	-225.	-140.	107.	-602.	3859.	-3589.	-.0148	-.0125	-.0017	-.0000	-.0001	.0001
22	1	205	BEG	160.	85.	-114.	602.	-3859.	3589.	-.0148	-.0125	-.0017	-.0000	-.0001	.0001
22	1	210	END	-160.	-85.	114.	-602.	5061.	-2691.	-.0149	-.0112	-.0008	-.0000	-.0001	.0001
22	2	215	END	-160.	-85.	114.	-602.	6262.	-1784.	-.0149	-.0100	.0001	-.0000	-.0001	.0001
22	3	220	END	-160.	-85.	114.	-2396.	12024.	-0.	-.0158	-.0075	.0015	-.0000	-.0000	.0001
23	1	220	BEG	16.	17.	-101.	2396.	-12024.	-0.	-.0158	-.0075	.0015	-.0000	-.0000	.0001
23	1	225	END	-16.	-17.	101.	-2677.	12286.	0.	-.0159	-.0073	.0015	-.0000	-.0000	.0001
23	2	230	END	-16.	-17.	101.	-3318.	12887.	0.	-.0155	-.0067	.0015	-.0000	.0000	.0001

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-16.	-17.	101.	-3959.	13487.	0.	-.0141	-.0059	.0015	-.0000	.0000	.0001
23	4	240	END	-16.	-17.	101.	-4600.	14088.	0.	-.0118	-.0048	.0015	-.0000	.0001	.0001
24	1	240	BEG	-126.	-41.	-83.	4600.	-14088.	-0.	-.0118	-.0048	.0015	-.0000	.0001	.0001
24	1	245	END	126.	41.	83.	-3066.	9392.	0.	-.0084	-.0034	.0015	-.0000	.0001	.0001
24	2	250	END	126.	41.	83.	-1533.	4696.	0.	-.0044	-.0018	.0015	-.0000	.0001	.0001
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	.0000	.0015	-.0000	.0001	.0001
24	3	255	END	126.	41.	83.	-0.	-0.	0.	.0000	.0000	.0015	-.0000	.0001	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 4 FREQUENCY 8.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	3206.	5510.	-2470.	-28226.	82036.	247251.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-110.	-3.	51.	0.	0.	0.	-.0071	-.0002	.0033	-.0001	-.0001	-.0001
3	20	-213.	-5.	133.	0.	0.	0.	-.0104	-.0002	.0065	-.0001	-.0001	-.0001
4	30	-502.	-9.	419.	0.	-0.	0.	-.0211	-.0004	.0176	-.0001	-.0001	-.0001
5	40	-696.	-13.	636.	0.	0.	0.	-.0292	-.0005	.0267	-.0001	-.0000	-.0001
6	50	-1161.	-25.	1121.	0.	-0.	-0.	-.0322	-.0007	.0311	-.0000	.0000	.0000
7	57	-2774.	-109.	2964.	-0.	0.	-0.	-.0229	-.0009	.0245	.0001	.0000	.0001
8	70	-136.	-35.	238.	-0.	-0.	-0.	-.0044	-.0011	.0077	.0002	.0001	.0002
9	85	-39.	43.	33.	-0.	-0.	0.	-.0004	.0004	.0003	.0000	.0000	-.0000
10	87	3186.	-5199.	-3274.	8615.	-144834.	322859.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-387.	118.	66.	-0.	0.	0.	-.0104	.0033	.0019	-.0001	-.0000	.0000
20	175	-90.	-34.	-2.	0.	0.	-0.	-.0105	-.0040	-.0002	-.0001	-.0000	.0001
21	190	-78.	-97.	-24.	-0.	-0.	-0.	-.0125	-.0154	-.0038	-.0000	-.0001	.0001
22	205	-65.	-55.	-7.	0.	0.	-0.	-.0148	-.0125	-.0017	-.0000	-.0001	.0001
23	220	-184.	-68.	13.	0.	0.	-0.	-.0158	-.0075	.0015	-.0000	-.0000	.0001
24	240	-142.	-58.	18.	0.	-0.	0.	-.0118	-.0048	.0015	-.0000	.0001	.0001
25	255	126.	41.	83.	-0.	-0.	0.	.0000	.0000	.0015	-.0000	.0001	.0001

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

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ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 4 FREQUENCY 8.61

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

LOADS
SHOCK

MODE 5 FREQUENCY 11.59

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-39.	39.	-12.	-822.	-2481.	327.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	39.	-39.	12.	799.	2459.	-322.	.0000	-.0000	-.0000	.0000	.0000	-.0000
1	2	15	END	39.	-39.	12.	-359.	846.	-1726.	.0001	-.0000	-.0000	.0000	.0000	-.0000
2	1	15	BEG	-38.	38.	-13.	359.	-846.	1726.	.0001	-.0000	-.0000	.0000	.0000	-.0000
2	1	20	END	38.	-38.	13.	-89.	846.	-2517.	.0000	-.0000	-.0000	.0000	.0000	-.0000
3	1	20	BEG	27.	37.	0.	158.	552.	2672.	.0000	-.0000	-.0000	.0000	.0000	-.0000
3	1	25	END	-27.	-37.	-0.	-169.	-552.	-1714.	.0000	-.0000	-.0000	-.0000	.0000	-.0000
3	2	30	END	-27.	-37.	-0.	-181.	-552.	-756.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
4	1	30	BEG	26.	36.	-1.	181.	552.	756.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
4	1	35	END	-26.	-36.	1.	-160.	-552.	157.	-.0001	-.0000	-.0000	-.0000	.0000	-.0000
4	2	40	END	-26.	-36.	1.	-139.	-552.	1071.	-.0001	-.0000	-.0000	-.0000	.0000	-.0000
5	1	40	BEG	20.	35.	-1.	139.	552.	-1071.	-.0001	-.0000	-.0000	-.0000	.0000	-.0000
5	1	45	END	-20.	-35.	1.	-94.	-552.	1796.	-.0002	-.0000	-.0000	-.0000	.0000	-.0000
5	2	50	END	-20.	-35.	1.	-48.	-552.	2521.	-.0002	-.0000	-.0000	-.0000	.0000	-.0000
6	1	50	BEG	8.	34.	-2.	48.	552.	-2521.	-.0002	-.0000	-.0000	-.0000	.0000	-.0000
6	1	55	END	-8.	-34.	2.	62.	-552.	2991.	-.0002	-.0000	-.0000	-.0000	.0000	.0000
6	2	57	END	-8.	-34.	2.	180.	-552.	3500.	-.0002	-.0000	.0000	-.0000	.0000	.0000
7	1	57	BEG	-33.	30.	-0.	-180.	552.	-3500.	-.0002	-.0000	.0000	-.0000	.0000	.0000
7	1	60	END	33.	-30.	0.	193.	-552.	2202.	-.0001	-.0000	.0000	-.0000	.0000	.0000
7	2	65	END	33.	-30.	0.	205.	-552.	904.	-.0001	-.0000	.0000	-.0000	.0000	.0000
7	3	70	END	33.	-30.	0.	215.	-552.	-198.	-.0000	-.0000	.0000	-.0000	.0000	.0000
8	1	70	BEG	-35.	29.	0.	-215.	552.	198.	-.0000	-.0000	.0000	-.0000	.0000	.0000
8	1	75	END	35.	-29.	-0.	215.	-552.	-219.	-.0000	-.0000	.0000	-.0000	.0000	.0000
8	2	80	END	35.	-29.	-0.	340.	-396.	-504.	-.0000	.0000	.0000	-.0000	.0000	-.0000

8	2	80	END	35.	-29.	-0.	340.	-396.	-504.	-.0000	.0000	.0000	-.0000	.0000	-.0000

SC	ME	SEG	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	35.	-29.	-0.	342.	-394.	-487.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	85	BEG	-36.	30.	1.	-342.	394.	487.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	86	END	36.	-30.	-1.	433.	-302.	317.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	2	87	END	36.	-30.	-1.	468.	-302.	2183.	0.0000	.0000	-.0000	-.0000	-.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-63.	1.	-14.	-69.	-1397.	-156.	.0000	-.0000	-.0000	.0000	.0000	-.0000
18	1	160	END	63.	-1.	14.	69.	965.	112.	.0000	.0000	.0001	.0000	.0000	-.0000
18	2	165	END	63.	-1.	14.	69.	532.	66.	.0001	.0000	.0002	.0000	.0000	-.0000
18	3	167	END	63.	-1.	14.	69.	-33.	10.	.0001	.0006	.0004	.0000	.0000	-.0000
19	1	167	BEG	-59.	3.	12.	-69.	33.	-10.	.0001	.0006	.0004	.0000	.0000	-.0000
19	1	170	END	59.	-3.	-12.	69.	458.	-118.	.0001	.0006	.0006	.0000	.0000	-.0000
19	2	175	END	59.	-3.	-12.	69.	950.	-246.	.0001	.0001	.0009	.0000	.0000	-.0000
20	1	175	BEG	-59.	4.	26.	-69.	-950.	246.	.0001	.0001	.0009	.0000	.0000	-.0000
20	1	180	END	59.	-4.	-26.	69.	1984.	-413.	.0001	.0001	.0012	.0000	.0000	-.0000
20	2	185	END	59.	-4.	-26.	69.	2477.	-492.	.0001	.0001	.0014	.0000	.0000	-.0000
20	3	190	END	59.	-4.	-26.	20.	1792.	-492.	.0006	.0002	.0018	.0000	.0000	-.0000
21	1	190	BEG	-52.	6.	47.	-20.	-1792.	492.	.0006	.0002	.0018	.0000	.0000	-.0000
21	1	195	END	52.	-6.	-47.	19.	1774.	-491.	.0006	.0002	.0018	.0000	.0000	-.0000
21	2	200	END	52.	-6.	-47.	18.	1756.	-489.	.0006	.0002	.0018	.0000	.0000	-.0000
21	3	205	END	52.	-6.	-47.	-45.	-307.	-279.	.0014	.0000	.0010	.0000	.0000	-.0000
22	1	205	BEG	-41.	7.	55.	45.	307.	279.	.0014	.0000	.0010	.0000	.0000	-.0000
22	1	210	END	41.	-7.	-55.	-45.	-884.	-209.	.0014	-.0000	.0007	.0000	.0000	-.0000
22	2	215	END	41.	-7.	-55.	-45.	-1461.	-140.	.0014	-.0001	.0003	.0000	.0000	-.0000
22	3	220	END	41.	-7.	-55.	-184.	-3471.	0.	.0019	-.0003	-.0004	.0000	.0000	-.0000
23	1	220	BEG	-9.	2.	49.	184.	3471.	0.	.0019	-.0003	-.0004	.0000	.0000	-.0000
23	1	225	END	9.	-2.	-49.	-215.	-3621.	-0.	.0022	-.0003	-.0004	.0000	.0000	-.0000
23	2	230	END	9.	-2.	-49.	-283.	-3964.	-0.	.0025	-.0003	-.0004	-.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	9.	-2.	-49.	-352.	-4307.	-0.	.0026	-.0003	-.0004	-.0000	-.0000	-.0000
23	4	240	END	9.	-2.	-49.	-421.	-5650.	-0.	.0023	-.0003	-.0004	-.0000	-.0000	-.0000
24	1	240	BEG	41.	-4.	40.	421.	5650.	0.	.0023	-.0003	-.0004	-.0000	-.0000	-.0000
24	1	245	END	-41.	4.	-40.	-281.	-3100.	0.	.0017	-.0002	-.0004	-.0000	-.0000	-.0000
24	2	250	END	-41.	4.	-40.	-140.	-1550.	0.	.0009	-.0001	-.0004	-.0000	-.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	.0000	-.0004	-.0000	-.0000	-.0000
24	3	255	END	-41.	4.	-40.	0.	0.	0.	0.0000	.0000	-.0004	-.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 5 FREQUENCY 11.59

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-39.	39.	-12.	-822.	-2481.	327.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	2.	-0.	-1.	-0.	-0.	0.	.0001	-.0000	-.0000	.0000	.0000	-.0000
3	20	2.	-0.	-1.	0.	-0.	0.	.0000	-.0000	-.0000	.0000	.0000	-.0000
4	30	-1.	-1.	-1.	0.	-0.	0.	-.0000	-.0000	-.0000	-.0000	.0000	-.0000
5	40	-5.	-1.	-1.	0.	0.	0.	-.0001	-.0000	-.0000	-.0000	.0000	-.0000
6	50	-13.	-1.	-1.	0.	-0.	0.	-.0002	-.0000	-.0000	-.0000	.0000	-.0000
7	57	-41.	-4.	2.	0.	0.	-0.	-.0002	-.0000	.0000	-.0000	.0000	.0000
8	70	-3.	-1.	1.	-0.	-0.	-0.	-.0000	-.0000	.0000	-.0000	.0000	.0000
9	85	-0.	0.	0.	0.	-0.	0.	-.0000	.0000	.0000	-.0000	.0000	-.0000
10	87	36.	-30.	-1.	468.	-302.	2183.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	3.	2.	26.	0.	-0.	0.	.0001	.0000	.0004	.0000	.0000	-.0000
20	175	1.	1.	14.	0.	-0.	0.	.0001	.0001	.0009	.0000	.0000	-.0000
21	190	7.	2.	21.	0.	-0.	0.	.0006	.0002	.0018	.0000	.0000	-.0000
22	205	11.	0.	8.	-0.	-0.	0.	.0014	.0000	.0010	.0000	.0000	-.0000
23	220	32.	-5.	-6.	-0.	-0.	0.	.0019	-.0003	-.0004	.0000	.0000	-.0000
24	240	51.	-6.	-9.	0.	-0.	-0.	.0023	-.0003	-.0004	-.0000	-.0000	-.0000
25	255	-41.	4.	-40.	0.	0.	0.	0.0000	.0000	-.0004	-.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

[redacted] 255 [redacted] 1. [redacted] 4. [redacted] 0. [redacted] 0. [redacted] 0. [redacted] 000 [redacted] 000 [redacted] 000 [redacted] .00 [redacted] .00 [redacted] .00 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 5 FREQUENCY 11.59

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

DYNAMIC PIPE STRESS ANALYSIS, MODE 6, FREQUENCY 13.07

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

LOADS
SHOCK

MODE 7 FREQUENCY 13.84

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2	15	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	15	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	20	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	25	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2	30	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	30	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	35	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2	40	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	40	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	45	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2	50	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	50	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	55	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	2	57	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	57	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	60	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	2	65	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	3	70	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	70	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	75	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	85	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	86	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	2	87	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	87	BEG	-1742.	-525.	-2505.	-111866.	213354.	46366.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	1742.	525.	2505.	114786.	-144355.	-62897.	-.0000	-.0000	.0001	.0000	-.0000	-.0000
10	2	90	END	1742.	525.	2505.	99604.	-80925.	-65631.	.0002	.0001	.0002	.0000	-.0000	-.0000
11	1	90	BEG	-1696.	-496.	-2471.	-99604.	80925.	65631.	.0002	.0001	.0002	.0000	-.0000	-.0000
11	1	95	END	1696.	496.	2471.	99315.	-79679.	-65682.	.0002	.0001	.0002	.0000	-.0000	-.0000
11	2	100	END	1696.	496.	2471.	-33805.	15147.	6675.	.0041	.0027	.0046	.0001	-.0001	-.0000
12	1	100	BEG	-1242.	-189.	-1960.	33805.	-15147.	-6675.	.0041	.0027	.0046	.0001	-.0001	-.0000
12	1	105	END	1242.	189.	1960.	-63203.	15147.	25303.	.0047	.0027	.0060	.0001	-.0001	-.0000
12	2	107	END	1242.	189.	1960.	-170986.	15147.	93600.	.0068	.0027	.0106	.0001	-.0001	-.0000
13	1	107	BEG	-226.	221.	-382.	170986.	-15147.	-93600.	.0068	.0027	.0106	.0001	-.0001	-.0000
13	1	110	END	226.	-221.	382.	-164537.	15147.	101619.	.0077	.0027	.0127	.0000	-.0001	-.0000
13	2	115	END	226.	-221.	382.	-198089.	15147.	109637.	.0080	.0027	.0138	.0000	-.0001	-.0000
14	1	115	BEG	267.	389.	465.	198089.	-15147.	-109637.	.0080	.0027	.0136	.0000	-.0001	-.0000
14	1	120	END	-267.	-389.	-465.	-181589.	15147.	100177.	.0077	.0027	.0137	-.0000	-.0001	.0000
14	2	125	END	-267.	-389.	-465.	-165090.	15147.	90718.	.0068	.0027	.0127	-.0000	-.0001	.0000
15	1	125	BEG	760.	586.	1379.	165090.	-15147.	-90718.	.0068	.0027	.0127	-.0000	-.0001	.0000
15	1	130	END	-760.	-586.	-1379.	-98886.	15147.	54235.	.0048	.0027	.0097	-.0001	-.0001	.0000
15	2	135	END	-760.	-586.	-1379.	-32683.	15147.	17752.	.0022	.0027	.0057	-.0001	-.0000	.0001
16	1	135	BEG	923.	784.	1795.	32683.	-15147.	-17752.	.0022	.0027	.0057	-.0001	-.0000	.0001
16	1	140	END	-923.	-784.	-1795.	-9627.	15147.	5893.	.0015	.0027	.0045	-.0001	-.0000	.0001
16	2	145	END	-923.	-784.	-1795.	84477.	46166.	-56058.	-.0001	.0004	.0003	-.0000	-.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	-923.	-784.	-1795.	85049.	46739.	-56603.	-.0001	.0006	.0003	-.0000	-.0000	.0000
17	1	150	BEG	920.	805.	1810.	-85049.	-46739.	56603.	-.0001	.0006	.0003	-.0000	-.0000	.0000
17	1	155	END	-920.	-805.	-1810.	117166.	78807.	-87192.	.0000	-.0000	-.0000	-.0000	-.0000	-.0000
18	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	160	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	2	165	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	3	167	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	167	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	170	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	2	175	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	175	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	160	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	2	185	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	3	190	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	190	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	195	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	2	200	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	3	205	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	205	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	210	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	2	215	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	3	220	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	220	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	225	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	2	230	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	4	240	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	240	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	245	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	2	250	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 7 FREQUENCY 13.84

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	20	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	30	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	40	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	50	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	57	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	70	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	85	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	87	-1742.	-525.	-2505.	-111806.	213354.	46366.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	46.	29.	35.	0.	0.	0.	.0002	.0001	.0002	.0000	-.0000	-.0000
12	100	454.	306.	511.	-0.	0.	0.	.0041	.0027	.0046	.0001	-.0001	-.0000
13	107	1016.	410.	1578.	-0.	-0.	0.	.0068	.0027	.0106	.0001	-.0001	-.0000
14	115	493.	168.	847.	-0.	0.	0.	.0080	.0027	.0138	.0000	-.0001	-.0000
15	125	493.	197.	914.	0.	-0.	-0.	.0068	.0027	.0127	-.0000	-.0001	.0000
16	135	183.	198.	416.	0.	-0.	0.	.0022	.0027	.0057	-.0001	-.0000	.0001
17	150	-3.	21.	15.	0.	0.	-0.	-.0001	.0004	.0003	-.0000	-.0000	.0000
18	155	-920.	-805.	-1810.	117166.	78807.	-87192.	.0000	-.0000	-.0000	-.0000	-.0000	-.0000
19	167	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	175	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	190	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	205	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	220	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	240	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	255	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

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ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 7 FREQUENCY 13.84

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

LOADS
SHOCK

MODE 8 FREQUENCY 15.60

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2	15	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	15	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1	20	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	1	25	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2	30	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	30	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	1	35	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2	40	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	40	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	1	45	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2	50	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	50	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	1	55	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	2	57	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	57	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	1	60	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	2	65	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	3	70	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	70	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	1	75	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

8	2	80	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	85	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1	86	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	2	87	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	87	BEG	1464.	992.	-753.	28071.	-40065.	-17729.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	-1464.	-992.	753.	-33699.	72078.	48952.	.0000	.0000	-.0000	-.0000	.0000	.0000
10	2	90	END	-1464.	-992.	753.	-5022.	33666.	54117.	-.0001	-.0000	-.0000	-.0000	.0000	.0000
11	1	90	BEG	1440.	981.	-761.	5022.	-33666.	-54117.	-.0001	-.0000	-.0000	-.0000	.0000	.0000
11	1	95	END	-1440.	-981.	761.	-4451.	32908.	54220.	-.0001	-.0000	-.0000	-.0000	.0000	.0000
11	2	100	END	-1440.	-981.	761.	4762.	-24785.	-2743.	-.0024	.0004	.0006	.0000	.0000	.0000
12	1	100	BEG	1099.	1037.	-677.	-4762.	24785.	2743.	-.0024	.0004	.0006	.0000	.0000	.0000
12	1	105	END	-1099.	-1037.	677.	-5393.	-24785.	-19233.	-.0030	.0004	.0010	.0000	.0000	.0000
12	2	107	END	-1099.	-1037.	677.	-42625.	-24785.	-79696.	-.0049	.0004	.0025	.0000	.0000	.0000
13	1	107	BEG	173.	1109.	-205.	42625.	24785.	79696.	-.0049	.0004	.0025	.0000	.0000	.0000
13	1	110	END	-173.	-1109.	205.	-49885.	-24785.	-85841.	-.0057	.0004	.0032	.0000	.0000	.0000
13	2	115	END	-173.	-1109.	205.	-57146.	-24785.	-91985.	-.0061	.0003	.0037	.0000	.0000	.0000
14	1	115	BEG	-301.	1136.	84.	57146.	24785.	91985.	-.0061	.0003	.0037	.0000	.0000	.0000
14	1	120	END	301.	-1136.	-84.	-54168.	-24785.	-81303.	-.0059	.0003	.0038	-.0000	.0000	-.0000
14	2	125	END	301.	-1136.	-84.	-51190.	-24785.	-70620.	-.0053	.0003	.0036	-.0000	-.0000	-.0000
15	1	125	BEG	-784.	1164.	419.	51190.	24785.	70620.	-.0053	.0003	.0036	-.0000	-.0000	-.0000
15	1	130	END	784.	-1164.	-419.	-31071.	-24785.	-33009.	-.0037	.0003	.0029	-.0000	-.0000	-.0000
15	2	135	END	784.	-1164.	-419.	-10953.	-24785.	4602.	-.0019	.0003	.0019	-.0000	-.0000	-.0000
16	1	135	BEG	-959.	1189.	597.	10953.	24785.	-4602.	-.0019	.0003	.0019	-.0000	-.0000	-.0000
16	1	140	END	959.	-1189.	-597.	-3287.	-24785.	16924.	-.0014	.0003	.0016	-.0000	-.0000	-.0000
16	2	145	END	959.	-1189.	-597.	46621.	10922.	25995.	-.0001	.0002	.0002	-.0000	-.0000	-.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	956.	-1189.	-597.	47155.	11582.	25539.	-.0001	.0002	.0002	-.0000	-.0000	-.0000
17	1	150	BEG	-966.	1200.	609.	-47155.	-11582.	-25539.	-.0001	.0002	.0002	-.0000	-.0000	-.0000
17	1	155	END	966.	-1200.	-609.	76930.	48415.	193.	-.0000	.0000	-.0000	.0000	-.0000	.0000
18	1	20	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	160	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	2	165	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	3	167	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	167	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	1	170	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	2	175	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	175	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	1	180	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	2	185	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	3	190	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	190	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	1	195	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	2	200	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	3	205	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	205	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	1	210	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	2	215	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	3	220	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	220	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	1	225	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	2	230	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	4	240	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	240	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	1	245	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	2	250	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	3	255	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 8 FREQUENCY 15.60

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	20	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	30	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	40	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	50	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	57	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	70	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	85	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	87	1464.	992.	-753.	28071.	-40065.	-17729.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	-24.	-10.	-8.	0.	-0.	-0.	-.0001	-.0006	-.0000	.0000	.0000	.0000
12	100	-340.	56.	84.	-0.	-0.	-0.	-.0024	.0004	.0006	.0000	.0000	.0000
13	107	-926.	72.	472.	-0.	0.	-0.	-.0049	.0004	.0025	.0000	.0000	.0000
14	115	-475.	27.	289.	-0.	0.	-0.	-.0061	.0003	.0037	.0000	.0000	.0000
15	125	-482.	29.	335.	0.	-0.	0.	-.0053	.0003	.0036	-.0000	-.0000	-.0000
16	135	-176.	25.	178.	-0.	-0.	0.	-.0019	.0003	.0019	-.0000	-.0000	-.0000
17	150	-6.	10.	12.	0.	0.	-0.	-.0001	.0002	.0002	-.0000	-.0000	-.0000
18	155	966.	-1200.	-609.	76930.	48415.	193.	-.0000	.0000	-.0000	.0000	-.0000	.0000
19	167	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	175	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	190	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	205	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	220	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	240	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	255	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

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ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 6 FREQUENCY 15.60

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

LOADS
SHOCK

MODE 9 FREQUENCY 15.93

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	101.	15.	-285.	6673.	-5727.	8316.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-101.	-15.	285.	-6682.	5822.	-8314.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
1	2	15	END	-101.	-15.	285.	5484.	12937.	-3625.	.0001	.0001	.0002	-.0000	.0000	-.0000
2	1	15	BEG	108.	22.	-277.	-5484.	-12937.	3625.	.0001	.0001	.0002	-.0000	.0000	-.0000
2	1	20	END	-108.	-22.	277.	11303.	12937.	-1361.	.0001	.0001	.0002	-.0000	.0000	-.0000
3	1	20	BEG	13.	75.	56.	-11135.	3954.	-528.	.0001	.0001	.0002	-.0000	.0000	-.0000
3	1	25	END	-13.	-75.	-56.	9157.	-3954.	974.	.0000	.0001	.0002	-.0000	.0000	-.0000
3	2	30	END	-13.	-75.	-56.	7178.	-3954.	1419.	-.0000	.0001	.0002	.0000	.0000	-.0000
4	1	30	BEG	11.	85.	72.	-7178.	3954.	-1419.	-.0000	.0001	.0002	.0000	.0000	-.0000
4	1	35	END	-11.	-85.	-72.	4602.	-3954.	1815.	-.0001	.0001	.0001	.0000	.0000	-.0000
4	2	40	END	-11.	-85.	-72.	2026.	-3954.	2210.	-.0001	.0001	.0000	.0000	.0000	-.0000
5	1	40	BEG	4.	95.	76.	-2026.	3954.	-2210.	-.0001	.0001	.0000	.0000	.0000	-.0000
5	1	45	END	-4.	-95.	-76.	-663.	-3954.	2335.	-.0001	.0001	-.0001	.0000	.0000	-.0000
5	2	50	END	-4.	-95.	-76.	-3352.	-3954.	2460.	-.0001	.0001	-.0002	.0000	.0000	-.0000
6	1	50	BEG	-11.	110.	54.	3352.	3954.	-2460.	-.0001	.0001	-.0002	.0000	.0000	.0000
6	1	55	END	11.	-110.	-54.	-6603.	-3954.	1786.	-.0001	.0001	-.0003	.0000	.0000	.0000
6	2	57	END	11.	-110.	-54.	-10125.	-3954.	1055.	-.0001	.0001	-.0003	.0000	.0000	.0000
7	1	57	BEG	-33.	159.	-90.	10125.	3954.	-1055.	-.0001	.0001	-.0003	.0000	.0000	.0000
7	1	60	END	33.	-159.	90.	-6565.	-3954.	-252.	-.0000	.0001	-.0003	-.0000	.0000	.0000
7	2	65	END	33.	-159.	90.	-3005.	-3954.	-1560.	.0000	.0001	-.0002	-.0000	.0000	.0000
7	3	70	END	33.	-159.	90.	18.	-3954.	-2670.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	1	70	BEG	-29.	170.	-105.	-18.	3954.	2670.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	1	75	END	29.	-170.	105.	82.	-3954.	-2688.	.0000	.0001	-.0001	-.0000	-.0000	.0000
8	2	80	END	29.	-170.	105.	5651.	891.	3635.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

8	2	80	END	29.	-170.	105.	5651.	891.	3635.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	29.	-170.	105.	5663.	955.	3737.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	85	BEG	-34.	177.	-108.	-5663.	-955.	-3737.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
9	1	86	END	34.	-177.	108.	6206.	3986.	8539.	-.0000	.0000	.0000	-.0000	-.0000	-.0000
9	2	87	END	34.	-177.	108.	598.	3986.	10311.	.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	102.	-44.	-318.	-168.	-16891.	1889.	.0001	.0001	.0002	-.0000	.0000	-.0000
18	1	160	END	-102.	44.	318.	168.	7067.	-540.	.0001	.0002	.0009	-.0000	.0000	-.0000
18	2	165	END	-102.	44.	318.	168.	-2757.	808.	.0001	.0003	.0020	-.0000	.0000	-.0000
18	3	167	END	-102.	44.	318.	168.	-15615.	2574.	.0001	.0005	.0032	-.0000	.0000	-.0000
19	1	167	BEG	112.	13.	66.	-168.	15615.	-2574.	.0001	.0005	.0032	-.0000	.0000	-.0000
19	1	170	END	-112.	-13.	-66.	168.	-12954.	2071.	.0001	.0004	.0036	-.0000	-.0000	.0000
19	2	175	END	-112.	-13.	-66.	168.	-10294.	1568.	.0001	.0003	.0029	.0000	-.0000	.0000
20	1	175	BEG	114.	20.	151.	-168.	10294.	-1568.	.0001	.0003	.0029	.0000	-.0000	.0000
20	1	180	END	-114.	-20.	-151.	168.	-4240.	766.	.0001	-.0001	.0013	.0000	-.0000	.0000
20	2	185	END	-114.	-20.	-151.	168.	-1356.	384.	.0001	-.0003	.0004	.0000	-.0000	.0000
20	3	190	END	-114.	-20.	-151.	-25.	4195.	-206.	-.0009	-.0005	-.0006	.0000	-.0000	.0000
21	1	190	BEG	94.	9.	138.	25.	-4195.	206.	-.0009	-.0005	-.0006	.0000	-.0000	.0000
21	1	195	END	-94.	-9.	-138.	-25.	4227.	-206.	-.0009	-.0005	-.0006	.0000	-.0000	.0000
21	2	200	END	-94.	-9.	-138.	-24.	4261.	-210.	-.0009	-.0005	-.0006	.0000	-.0000	.0000
21	3	205	END	-94.	-9.	-138.	-9.	3343.	-160.	-.0014	-.0004	-.0004	.0000	.0000	.0000
22	1	205	BEG	74.	4.	132.	9.	-3343.	160.	-.0014	-.0004	-.0004	.0000	.0000	.0000
22	1	210	END	-74.	-4.	-132.	-9.	1952.	-120.	-.0014	-.0003	-.0004	.0000	.0000	.0000
22	2	215	END	-74.	-4.	-132.	-9.	562.	-80.	-.0014	-.0002	-.0004	.0000	.0000	.0000
22	3	220	END	-74.	-4.	-132.	-89.	-671.	-0.	-.0014	-.0001	-.0005	.0000	-.0000	.0000
23	1	220	BEG	30.	2.	118.	89.	671.	-0.	-.0014	-.0001	-.0005	.0000	-.0000	.0000
23	1	225	END	-30.	-2.	-118.	-121.	-173.	0.	-.0014	-.0001	-.0005	.0000	-.0000	.0000
23	2	230	END	-30.	-2.	-118.	-195.	966.	0.	-.0015	-.0001	-.0005	.0000	-.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-30.	-2.	-118.	-268.	2105.	0.	-.0016	-.0001	-.0005	.0000	.0000	.0000
23	4	240	END	-30.	-2.	-118.	-342.	3244.	0.	-.0014	-.0001	-.0005	-.0000	.0000	.0000
24	1	240	BEG	-29.	-3.	97.	342.	-3244.	0.	-.0014	-.0001	-.0005	-.0000	.0000	.0000
24	1	245	END	29.	3.	-97.	-228.	2163.	0.	-.0011	-.0001	-.0005	-.0000	.0000	.0000
24	2	250	END	29.	3.	-97.	-114.	1081.	0.	-.0006	-.0001	-.0005	-.0000	.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	0.0000	.0000	-.0005	-.0000	.0000	.0000
24	3	255	END	29.	3.	-97.	-0.	-0.	0.	0.0000	.0000	-.0005	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 9 FREQUENCY 15.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEG	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	101.	15.	-285.	6673.	-5727.	8316.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	7.	7.	8.	0.	-0.	0.	.0001	.0001	.0002	-.0000	.0000	-.0000
3	20	6.	9.	15.	0.	-0.	0.	.0001	.0001	.0002	-.0000	.0000	-.0000
4	30	-1.	16.	17.	-0.	-0.	0.	-.0000	.0001	.0002	.0000	.0000	-.0000
5	40	-8.	10.	3.	-0.	0.	0.	-.0001	.0001	.0000	.0000	.0000	-.0000
6	50	-15.	15.	-21.	-0.	-0.	-0.	-.0001	.0001	-.0002	.0000	.0000	.0000
7	57	-22.	49.	-144.	-0.	0.	-0.	-.0001	.0001	-.0003	.0000	.0000	.0000
8	70	4.	12.	-15.	0.	0.	-0.	.0000	.0001	-.0001	-.0000	-.0000	.0000
9	85	-5.	7.	-3.	0.	0.	0.	-.0000	.0000	-.0000	-.0000	-.0000	-.0000
10	87	34.	-177.	108.	598.	3986.	10311.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	10.	56.	384.	-0.	-0.	0.	.0001	.0005	.0032	-.0000	.0000	-.0000
20	175	2.	7.	85.	-0.	0.	-0.	.0001	.0003	.0029	.0000	-.0000	.0000
21	190	-19.	-11.	-13.	-0.	0.	-0.	-.0009	-.0005	-.0006	.0000	-.0000	.0000
22	205	-21.	-5.	-6.	0.	0.	-0.	-.0014	-.0004	-.0004	.0000	.0000	.0000
23	220	-43.	-2.	-15.	0.	0.	-0.	-.0014	-.0001	-.0005	.0000	-.0000	.0000
24	240	-59.	-5.	-20.	-0.	-0.	0.	-.0014	-.0001	-.0005	-.0000	.0000	.0000
25	255	29.	3.	-97.	-0.	-0.	0.	0.0000	.0000	-.0005	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

255 29. 3. 7. -0. -0. 0. .000 .000 .000 .000 .000 .000

ARTHOR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 9 FREQUENCY 15.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

LOADS
SHOCK

MODE 10 FREQUENCY 16.09

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	-16.	124.	-2.	-3756.	-1112.	-321.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	16.	-124.	2.	3683.	1103.	336.	.0000	-.0000	-.0000	.0000	.0000	.0000
1	2	15	END	16.	-124.	2.	-1657.	420.	774.	.0001	-.0001	-.0001	.0000	.0000	.0000
2	1	15	BEG	-12.	120.	-7.	1657.	-420.	-774.	.0001	-.0001	-.0001	.0000	.0000	.0000
2	1	20	END	12.	-120.	7.	-1513.	420.	519.	.0001	-.0001	-.0001	.0000	.0000	.0000
3	1	20	BEG	8.	22.	3.	1051.	263.	4159.	.0001	-.0001	-.0001	.0000	.0000	.0000
3	1	25	END	-8.	-22.	-3.	-1158.	-263.	-3857.	.0001	-.0001	-.0001	.0000	.0000	.0000
3	2	30	END	-8.	-22.	-3.	-1264.	-263.	-3555.	.0001	-.0001	-.0001	-.0000	.0000	.0000
4	1	30	BEG	22.	16.	-5.	1264.	263.	3555.	.0001	-.0001	-.0001	-.0000	.0000	.0000
4	1	35	END	-22.	-16.	5.	-1076.	-263.	-2783.	.0001	-.0001	-.0001	-.0000	.0000	-.0000
4	2	40	END	-22.	-16.	5.	-887.	-263.	-2011.	.0001	-.0001	-.0001	-.0000	.0000	-.0000
5	1	40	BEG	31.	9.	-11.	887.	263.	2011.	.0001	-.0001	-.0001	-.0000	.0000	-.0000
5	1	45	END	-31.	-9.	11.	-481.	-263.	-909.	.0000	-.0001	-.0000	-.0000	.0000	-.0000
5	2	50	END	-31.	-9.	11.	-75.	-263.	193.	.0000	-.0001	-.0000	-.0000	.0000	-.0000
6	1	50	BEG	32.	41.	-14.	75.	263.	-193.	.0000	-.0001	-.0000	-.0000	.0000	-.0000
6	1	55	END	-32.	1.	14.	783.	-263.	2109.	-.0001	-.0001	.0000	-.0000	.0000	-.0000
6	2	57	END	-32.	1.	14.	1711.	-263.	4185.	-.0001	-.0001	.0000	-.0000	.0000	-.0000
7	1	57	BEG	-26.	-34.	11.	-1711.	263.	-4185.	-.0001	-.0001	.0000	-.0000	.0000	-.0000
7	1	60	END	26.	34.	-11.	1293.	-263.	3169.	-.0001	-.0001	.0001	-.0000	.0000	.0000
7	2	65	END	26.	34.	-11.	875.	-263.	2153.	-.0001	-.0001	.0001	.0000	.0000	.0000
7	3	70	END	26.	34.	-11.	520.	-263.	1291.	-.0001	-.0001	.0000	.0000	.0000	.0000
8	1	70	BEG	-34.	-42.	17.	-520.	263.	-1291.	-.0001	-.0001	.0000	.0000	.0000	.0000
8	1	75	END	34.	42.	-17.	510.	-263.	1270.	-.0001	-.0001	.0000	.0000	.0000	.0000
8	2	80	END	34.	42.	-17.	-443.	-837.	-2140.	.0000	-.0000	.0000	.0000	.0000	.0000

8	2	80	END	34,	42,	-17,	-443,	-837,	-2140,	.0000	-.0000	.0000	.0000	.0000	.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	34.	42.	-17.	-445.	-844.	-2165.	.0000	-.0000	.0000	.0000	.0000	.0000
9	1	85	BEG	-32.	-45.	18.	445.	844.	2165.	.0000	-.0000	.0000	.0000	.0000	.0000
9	1	86	END	32.	45.	-18.	-583.	-1232.	-3378.	.0000	-.0000	.0000	.0000	.0000	.0000
9	2	87	END	32.	45.	-18.	350.	-1232.	-1692.	-.0000	-.0000	.0000	.0000	.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	-13.	92.	-16.	461.	-684.	-4678.	.0001	-.0001	-.0001	.0000	.0000	.0000
18	1	160	END	13.	-92.	16.	-461.	179.	1841.	.0001	-.0002	-.0000	-.0000	.0000	.0000
18	2	165	END	13.	-92.	16.	-461.	-326.	-996.	.0001	-.0005	.0001	-.0000	.0000	.0000
18	3	167	END	13.	-92.	16.	-461.	-986.	-4709.	.0001	-.0007	.0001	-.0000	.0000	.0000
19	1	167	BEG	-0.	-21.	4.	461.	986.	4709.	.0001	-.0007	.0001	-.0000	.0000	.0000
19	1	170	END	0.	21.	-4.	-461.	-812.	-3680.	.0001	-.0007	.0002	-.0000	-.0000	-.0000
19	2	175	END	0.	21.	-4.	-461.	-638.	-3052.	.0001	-.0004	.0001	-.0000	-.0000	-.0000
20	1	175	BEG	3.	-37.	8.	461.	638.	3052.	.0001	-.0004	.0001	-.0000	-.0000	-.0000
20	1	180	END	-3.	37.	-8.	-461.	-302.	-1579.	.0001	.0001	.0000	-.0000	-.0000	-.0000
20	2	185	END	-3.	37.	-8.	-461.	-142.	-877.	.0001	.0005	-.0001	-.0000	-.0000	-.0000
20	3	190	END	-3.	37.	-8.	321.	100.	-110.	.0000	.0010	-.0001	-.0000	-.0000	-.0000
21	1	190	BEG	4.	-8.	5.	-321.	-100.	110.	.0000	.0010	-.0001	-.0000	-.0000	-.0000
21	1	195	END	-4.	8.	-5.	324.	102.	-110.	.0000	.0010	-.0001	-.0000	-.0000	-.0000
21	2	200	END	-4.	8.	-5.	326.	103.	-110.	.0000	.0011	-.0001	-.0000	-.0000	-.0000
21	3	205	END	-4.	8.	-5.	495.	-99.	-279.	.0000	.0007	-.0001	-.0000	-.0000	-.0000
22	1	205	BEG	5.	7.	3.	-495.	-99.	279.	.0000	.0007	-.0001	-.0000	-.0000	-.0000
22	1	210	END	-5.	-7.	-3.	495.	70.	-209.	.0000	.0005	-.0001	-.0000	-.0000	-.0000
22	2	215	END	-5.	-7.	-3.	495.	41.	-140.	.0000	.0003	-.0000	-.0000	-.0000	-.0000
22	3	220	END	-5.	-7.	-3.	356.	81.	0.	-.0000	-.0001	-.0000	-.0000	-.0000	-.0000
23	1	220	BEG	4.	1.	2.	-356.	-81.	0.	-.0000	-.0001	-.0000	-.0000	-.0000	-.0000
23	1	225	END	-4.	-1.	-2.	337.	139.	-0.	-.0001	-.0001	-.0000	-.0000	-.0000	-.0000
23	2	230	END	-4.	-1.	-2.	294.	272.	-0.	-.0001	-.0000	-.0000	-.0000	-.0000	-.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-4.	-1.	-2.	252.	405.	-0.	-.0002	-.0000	-.0000	-.0000	-.0000	-.0000
23	4	240	END	-4.	-1.	-2.	209.	538.	-0.	-.0002	.0000	-.0000	-.0000	.0000	-.0000
24	1	240	BEG	5.	2.	2.	-209.	-538.	0.	-.0002	.0000	-.0000	-.0000	.0000	-.0000
24	1	245	END	5.	-2.	-2.	139.	359.	0.	-.0001	.0000	-.0000	.0000	.0000	-.0000
24	2	250	END	5.	-2.	-2.	70.	179.	0.	-.0001	.0000	-.0000	.0000	.0000	-.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	-.0000	-.0000	.0000	.0000	-.0000
24	3	255	END	5.	-2.	-2.	-0.	-0.	0.	.0000	-.0000	-.0000	.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 10 FREQUENCY 18.09

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEC	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	-16.	126.	-2.	-3756.	-1112.	-321.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	4.	-4.	-4.	-0.	-0.	-0.	.0001	-.0001	-.0001	.0000	.0000	.0000
3	20	8.	-6.	-6.	-0.	-0.	-0.	.0001	-.0001	-.0001	.0000	.0000	.0000
4	30	13.	-7.	-8.	0.	0.	-0.	.0001	-.0001	-.0001	-.0000	.0000	.0000
5	40	9.	-7.	-6.	0.	-0.	0.	.0001	-.0001	-.0001	-.0000	.0000	-.0000
6	50	1.	-10.	-3.	0.	-0.	0.	.0000	-.0001	-.0000	-.0000	.0000	-.0000
7	57	-58.	-33.	25.	0.	0.	0.	-.0001	-.0001	.0000	-.0000	.0000	-.0000
8	70	-8.	-8.	6.	-0.	-0.	-0.	-.0001	-.0001	.0000	.0000	.0000	.0000
9	85	1.	-2.	1.	-0.	-0.	-0.	.0000	-.0000	.0000	.0000	.0000	.0000
10	87	32.	45.	-18.	350.	-1232.	-1692.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	13.	-112.	21.	-0.	-0.	-0.	.0001	-.0007	.0001	-.0000	.0000	.0000
20	175	3.	-16.	4.	-0.	0.	0.	.0001	-.0004	.0001	-.0000	-.0000	-.0000
21	190	1.	29.	-4.	0.	0.	0.	.0000	.0010	-.0001	-.0000	-.0000	-.0000
22	205	0.	14.	-2.	-0.	0.	0.	.0000	.0007	-.0001	-.0000	-.0000	-.0000
23	220	-1.	-6.	-0.	-0.	0.	0.	-.0000	-.0001	-.0000	-.0000	-.0000	-.0000
24	240	-8.	1.	-0.	0.	0.	-0.	-.0002	.0000	-.0000	-.0000	.0000	-.0000
25	255	5.	-2.	-2.	-0.	-0.	0.	.0000	-.0000	-.0000	.0000	.0000	-.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

255 5. 2. 2. -0. -0. 0. .0000 .0000 .0000 .0000 .0000 .0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 10 FREQUENCY 18.09

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

DYNAMIC PIPE STRESS ANALYSIS, MODE 11, FREQUENCY 21.27

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 12, FREQUENCY 23.56

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 13, FREQUENCY 27.61

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 14, FREQUENCY 28.68

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 15, FREQUENCY 31.57

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 16, FREQUENCY 32.32

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 17, FREQUENCY 38.57

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 18, FREQUENCY 41.84

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

DYNAMIC PIPE STRESS ANALYSIS, MODE 19, FREQUENCY 47.39

DISPLACEMENTS LESS THAN .001 INCH OR .025 MM

LOADS
SHOCK

MODE 20 FREQUENCY 48.93

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	1	5	BEG	98.	95.	-111.	-361.	2802.	3341.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	1	10	END	-98.	-95.	111.	305.	-2730.	-3329.	-.0000	-.0000	.0000	.0000	-.0000	-.0000
1	2	15	END	-98.	-95.	111.	1096.	2611.	1964.	-.0001	-.0000	.0000	-.0000	-.0000	-.0000
2	1	15	BEG	52.	95.	-90.	-1096.	-2611.	-1964.	-.0001	-.0000	.0000	-.0000	-.0000	-.0000
2	1	20	END	-52.	-95.	90.	2986.	2611.	3066.	-.0001	-.0000	.0001	-.0000	-.0000	.0000
3	1	20	BEG	-21.	97.	3.	-2949.	-651.	-3283.	-.0001	-.0000	.0001	-.0000	-.0000	.0000
3	1	25	END	21.	-97.	-3.	2844.	651.	2524.	-.0001	-.0000	.0001	.0000	-.0000	.0000
3	2	30	END	21.	-97.	-3.	2740.	651.	1766.	-.0000	-.0000	.0001	.0000	-.0000	.0000
4	1	30	BEG	-56.	94.	45.	-2740.	-651.	-1766.	-.0000	-.0000	.0001	.0000	-.0000	.0000
4	1	35	END	56.	-94.	-45.	1136.	651.	-237.	-.0000	-.0000	.0000	.0000	-.0000	.0000
4	2	40	END	56.	-94.	-45.	-468.	651.	-2240.	.0000	-.0000	-.0000	.0000	.0000	.0000
5	1	40	BEG	-27.	88.	41.	468.	-651.	2240.	.0000	-.0000	-.0000	.0000	.0000	.0000
5	1	45	END	27.	-88.	-41.	-1933.	651.	-3211.	.0001	-.0000	-.0000	.0000	.0000	.0000
5	2	50	END	27.	-88.	-41.	-3397.	651.	-4183.	.0001	-.0000	-.0001	.0000	.0000	-.0000
6	1	50	BEG	58.	76.	-23.	3397.	-651.	4183.	.0001	-.0000	-.0001	.0000	.0000	-.0000
6	1	55	END	-58.	-76.	23.	-2038.	651.	-713.	.0000	-.0000	-.0000	-.0000	.0000	-.0000
6	2	57	END	-58.	-76.	23.	-567.	651.	3044.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
7	1	57	BEG	-20.	26.	-20.	567.	-651.	-3044.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
7	1	60	END	20.	-26.	20.	225.	651.	2262.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
7	2	65	END	20.	-26.	20.	1017.	651.	1480.	-.0000	-.0000	.0001	-.0000	.0000	.0000
7	3	70	END	20.	-26.	20.	1689.	651.	815.	-.0000	-.0000	.0001	-.0000	.0000	.0000
8	1	70	BEG	-40.	11.	58.	-1689.	-651.	-815.	-.0000	-.0000	.0001	-.0000	.0000	.0000
8	1	75	END	40.	-11.	-58.	1654.	651.	791.	-.0000	-.0000	.0001	-.0000	.0000	.0000
8	2	80	END	40.	-11.	-58.	-904.	-1749.	-516.	-.0000	.0000	.0000	-.0000	.0000	-.0000

8	2	80	END	40.	-11.	-58.	-904.	-1749.	-516.	-.0000	.0000	.0000	-.0000	.0000	-.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
8	3	85	END	40.	-11.	-58.	-903.	-1781.	-509.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	85	BEG	-46.	19.	115.	903.	1781.	509.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	1	86	END	46.	-19.	-115.	-846.	-4756.	-5.	-.0000	.0000	.0000	-.0000	.0000	-.0000
9	2	87	END	46.	-19.	-115.	5128.	-4756.	2404.	0.0000	.0000	.0000	.0000	.0000	.0000
10	1	87	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1	88	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	2	90	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	90	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1	95	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	2	100	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	100	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	1	105	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	2	107	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	107	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	1	110	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	2	115	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	115	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	1	120	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	2	125	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	125	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	1	130	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	2	135	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	135	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	1	140	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	2	145	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SC	HE	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
16	3	150	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	150	BEG	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	1	155	END	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	1	20	BEG	13.	-4.	-55.	-37.	-1960.	217.	-.0001	-.0000	.0001	-.0000	-.0000	.0000
18	1	160	END	-13.	4.	55.	37.	257.	-90.	-.0001	-.0000	.0001	-.0000	.0000	-.0000
18	2	165	END	-13.	4.	55.	37.	-1446.	37.	-.0001	.0000	.0001	-.0000	.0000	-.0000
18	3	167	END	-13.	4.	55.	37.	-3675.	204.	-.0001	.0000	.0001	-.0000	-.0000	-.0000
19	1	167	BEG	-94.	4.	77.	-37.	3675.	-204.	-.0001	.0000	.0001	-.0000	-.0000	-.0000
19	1	170	END	94.	44.	-77.	37.	-574.	61.	-.0001	.0000	-.0001	-.0000	-.0000	.0000
19	2	175	END	94.	-4.	-77.	37.	2528.	-81.	-.0001	-.0000	-.0003	-.0000	-.0000	.0000
20	1	175	BEG	-117.	1.	-11.	-37.	-2528.	81.	-.0001	-.0000	-.0003	-.0000	-.0000	.0000
20	1	180	END	117.	-1.	11.	37.	2086.	-107.	-.0001	-.0000	-.0004	.0000	.0000	.0000
20	2	185	END	117.	-1.	11.	37.	1875.	-119.	-.0001	-.0000	-.0003	.0000	.0000	-.0000
20	3	190	END	117.	-1.	11.	7.	-812.	43.	.0001	-.0000	-.0002	.0000	.0000	-.0000
21	1	190	BEG	-91.	-2.	-46.	-7.	812.	-43.	.0001	-.0000	-.0002	.0000	.0000	-.0000
21	1	195	END	91.	2.	46.	6.	-843.	45.	.0001	-.0000	-.0002	.0000	.0000	-.0000
21	2	200	END	91.	2.	46.	6.	-875.	47.	.0001	-.0000	-.0002	.0000	.0000	-.0000
21	3	205	END	91.	2.	46.	-31.	-1796.	150.	.0003	-.0000	-.0002	.0000	-.0000	.0000
22	1	205	BEG	-54.	44.	-75.	31.	1796.	-150.	.0003	-.0000	-.0002	.0000	-.0000	.0000
22	1	210	END	54.	4.	75.	-31.	-1008.	112.	.0003	-.0000	-.0001	.0000	-.0000	.0000
22	2	215	END	54.	4.	75.	-31.	-220.	75.	.0003	-.0000	-.0001	.0000	-.0000	.0000
22	3	220	END	54.	4.	75.	44.	224.	-0.	.0002	.0000	.0000	.0000	-.0000	.0000
23	1	220	BEG	1.	1.	-71.	-44.	-224.	-0.	.0002	.0000	.0000	.0000	-.0000	.0000
23	1	225	END	-1.	-1.	71.	32.	235.	0.	.0001	.0000	.0000	.0000	-.0000	.0000
23	2	230	END	-1.	-1.	71.	5.	260.	0.	.0001	.0000	.0000	.0000	-.0000	.0000

SC	ME	SEQ	POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23	3	235	END	-1.	-1.	71.	-22.	285.	0.	.0000	.0000	.0000	.0000	-.0000	.0000
23	4	240	END	-1.	-1.	71.	-49.	310.	0.	-.0000	-.0000	.0000	.0000	-.0000	.0000
24	1	240	BEG	-3.	-0.	-61.	49.	-310.	0.	-.0000	-.0000	.0000	.0000	-.0000	.0000
24	1	245	END	3.	0.	61.	-32.	207.	0.	-.0000	-.0000	.0000	-.0000	-.0000	.0000
24	2	250	END	3.	0.	61.	-16.	103.	0.	-.0000	-.0000	.0000	-.0000	.0000	.0000
24	3	255	DIS	0.	0.	0.	0.	0.	0.	.0000	0.0000	.0000	-.0000	.0000	.0000
24	3	255	END	3.	0.	61.	0.	-0.	0.	.0000	0.0000	.0000	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 20 FREQUENCY 48.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	98.	95.	-111.	-361.	2802.	3341.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	-45.	-1.	21.	0.	0.	0.	-.0001	-.0000	.0000	-.0000	-.0000	-.0000
3	20	-61.	-1.	38.	0.	0.	-0.	-.0001	-.0000	.0001	-.0000	-.0000	.0000
4	30	-35.	-4.	42.	-0.	0.	-0.	-.0000	-.0000	.0001	.0000	-.0000	.0000
5	40	29.	-6.	-4.	-0.	-0.	-0.	.0000	-.0000	-.0000	.0000	.0000	.0000
6	50	85.	-12.	-64.	-0.	-0.	0.	.0001	-.0000	-.0001	.0000	.0000	-.0000
7	57	-78.	-51.	3.	0.	0.	0.	-.0000	-.0000	.0000	-.0000	.0000	-.0000
8	70	-21.	-14.	78.	0.	-0.	-0.	-.0000	-.0000	.0001	-.0000	.0000	.0000
9	85	-6.	7.	57.	-0.	-0.	0.	-.0000	.0000	.0000	-.0000	.0000	-.0000
10	87	46.	-19.	-115.	5128.	-4756.	2404.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	100	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	107	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	115	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	125	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	135	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	150	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	155	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	167	-106.	8.	132.	-0.	0.	0.	-.0001	.0000	.0001	-.0000	-.0000	-.0000
20	175	-24.	-3.	-88.	0.	0.	-0.	-.0001	-.0000	-.0003	-.0000	-.0000	.0000
21	190	27.	-2.	-35.	-0.	-0.	0.	.0001	-.0000	-.0002	.0000	.0000	-.0000
22	205	37.	-2.	-29.	0.	-0.	-0.	.0003	-.0000	-.0002	.0000	-.0000	.0000
23	220	55.	4.	4.	0.	0.	-0.	.0002	.0000	.0000	.0000	-.0000	.0000
24	240	-3.	-1.	10.	-0.	0.	0.	-.0000	-.0000	.0000	.0000	-.0000	.0000
25	255	3.	0.	61.	0.	-0.	0.	.0000	0.0000	.0000	-.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

25 3. 0. 1. 0. -0 0 .000 0.00 .00 -.000 .000 .000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODE 20 FREQUENCY 48.93

NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1 1 5 BEG SQ,RT,SUM OF SQ	4581.	5609.	5034.	185657.	487227.	348280.	0.000	0.000	0.000	0.0000	0.0000	0.0000
1 1 10 END SQ,RT,SUM OF SQ	4581.	5609.	5034.	185477.	487012.	347725.	.000	.000	.000	.0000	.0000	.0000
1 2 10 BEG SQ,RT,SUM OF SQ	4581.	5609.	5034.	185477.	487012.	347725.	.000	.000	.000	.0000	.0000	.0000
1 2 15 END SQ,RT,SUM OF SQ	4581.	5609.	5034.	110057.	514873.	153381.	.019	.006	.008	.0003	.0005	.0002
2 1 15 BEG SQ,RT,SUM OF SQ	4425.	5606.	4962.	110057.	514873.	153381.	.019	.006	.008	.0003	.0005	.0002
2 1 20 END SQ,RT,SUM OF SQ	4425.	5606.	4962.	101748.	514873.	138206.	.024	.006	.014	.0003	.0006	.0002
3 1 20 BEG SQ,RT,SUM OF SQ	3132.	5453.	3086.	101597.	170603.	144764.	.024	.006	.014	.0003	.0006	.0002
3 1 25 END SQ,RT,SUM OF SQ	3132.	5453.	3086.	126695.	170603.	144356.	.032	.006	.024	.0003	.0006	.0002
3 2 25 BEG SQ,RT,SUM OF SQ	3132.	5453.	3086.	126695.	170603.	144356.	.032	.006	.024	.0003	.0006	.0002
3 2 30 END SQ,RT,SUM OF SQ	3132.	5453.	3086.	214224.	170603.	213449.	.039	.006	.034	.0002	.0005	.0002
4 1 30 BEG SQ,RT,SUM OF SQ	2438.	5451.	2422.	214224.	170603.	213449.	.039	.006	.034	.0002	.0005	.0002
4 1 35 END SQ,RT,SUM OF SQ	2438.	5451.	2422.	292907.	170603.	285043.	.046	.006	.042	.0002	.0005	.0002
4 2 35 BEG SQ,RT,SUM OF SQ	2438.	5451.	2422.	292907.	170603.	285043.	.046	.006	.042	.0002	.0005	.0002
4 2 40 END SQ,RT,SUM OF SQ	2438.	5451.	2422.	374905.	170603.	363294.	.051	.006	.049	.0002	.0005	.0001
5 1 40 BEG SQ,RT,SUM OF SQ	1482.	5446.	1456.	374905.	170603.	363294.	.051	.006	.049	.0002	.0005	.0001
5 1 45 END SQ,RT,SUM OF SQ	1482.	5446.	1456.	424205.	170603.	410834.	.054	.006	.053	.0001	.0004	.0001
5 2 45 BEG SQ,RT,SUM OF SQ	1482.	5446.	1456.	424205.	170603.	410834.	.054	.006	.053	.0001	.0004	.0001

5 2 45 BEG
SQ,R[redacted] OF [redacted] 148[redacted] 5044[redacted] 1456 [redacted] 2420[redacted] 706[redacted] 7108[redacted] ,05[redacted] ,006 [redacted] 053 [redacted] ,0004 ,0001 [redacted]

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
5 2 50 END SQ,RT,SUM OF SQ	1482.	5448.	1456.	474040.	170603.	459508.	.055	.006	.055	.0000	.0004	.0000
6 1 50 BEG SQ,RT,SUM OF SQ	401.	5438.	307.	474040.	170603.	459508.	.055	.006	.055	.0000	.0004	.0000
6 1 55 END SQ,RT,SUM OF SQ	401.	5438.	307.	458718.	170603.	446316.	.051	.006	.052	.0001	.0004	.0001
6 2 55 BEG SQ,RT,SUM OF SQ	401.	5438.	307.	458718.	170603.	446316.	.051	.006	.052	.0001	.0004	.0001
6 2 57 END SQ,RT,SUM OF SQ	401.	5438.	307.	442388.	170603.	433081.	.040	.006	.043	.0002	.0004	.0002
7 1 57 BEG SQ,RT,SUM OF SQ	4248.	5422.	4649.	442388.	170603.	433081.	.040	.006	.043	.0002	.0004	.0002
7 1 60 END SQ,RT,SUM OF SQ	4248.	5422.	4649.	259177.	170603.	266970.	.031	.006	.035	.0002	.0003	.0003
7 2 60 BEG SQ,RT,SUM OF SQ	4248.	5422.	4649.	259177.	170603.	266970.	.031	.006	.035	.0002	.0003	.0003
7 2 65 END SQ,RT,SUM OF SQ	4248.	5422.	4649.	80654.	170603.	107942.	.020	.006	.025	.0003	.0003	.0003
7 3 65 BEG SQ,RT,SUM OF SQ	4248.	5422.	4649.	80654.	170603.	107942.	.020	.006	.025	.0003	.0003	.0003
7 3 70 END SQ,RT,SUM OF SQ	4248.	5422.	4649.	90951.	170603.	74240.	.011	.006	.016	.0003	.0003	.0003
8 1 70 BEG SQ,RT,SUM OF SQ	4499.	5419.	5035.	90951.	170603.	74240.	.011	.006	.016	.0003	.0003	.0003
8 1 75 END SQ,RT,SUM OF SQ	4499.	5419.	5035.	93743.	170603.	76058.	.010	.006	.016	.0003	.0003	.0003
8 2 75 BEG SQ,RT,SUM OF SQ	4499.	5419.	5035.	93743.	170603.	76058.	.010	.006	.016	.0003	.0003	.0003
8 2 80 END SQ,RT,SUM OF SQ	4499.	5419.	5035.	295133.	236296.	210064.	.000	.001	.001	.0000	.0000	.0000
8 3 80 BEG SQ,RT,SUM OF SQ	4499.	5419.	5035.	295133.	236296.	210064.	.000	.001	.001	.0000	.0000	.0000
8 3 85 END SQ,RT,SUM OF SQ	4499.	5419.	5035.	294870.	238523.	211196.	.000	.000	.001	.0000	.0000	.0000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

8 3 85 END
SQ,R[redacted] OF [redacted] 449[redacted] 541[redacted] 5035[redacted] 9487[redacted] 385[redacted] 2111[redacted] ,0[redacted] ,00[redacted] 001 [redacted] 0 [redacted] ,0[redacted]

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
9 1 85 BEG SQ,RT,SUM OF SQ	4524.	5466.	5092.	294870.	238523.	211196.	.000	.000	.001	.0006	.0000	.0000
9 1 86 END SQ,RT,SUM OF SQ	4524.	5466.	5092.	282640.	354661.	298512.	.000	.000	.000	.0006	.0000	.0000
9 2 86 BEG SQ,RT,SUM OF SQ	4524.	5466.	5092.	282640.	354661.	298512.	.000	.000	.000	.0006	.0000	.0000
9 2 87 END SQ,RT,SUM OF SQ	4524.	5466.	5092.	50870.	354661.	338719.	.000	.000	.000	.0000	.0000	.0000
10 1 87 BEG SQ,RT,SUM OF SQ	2275.	1122.	2616.	115270.	217083.	49640.	0.000	0.000	0.000	0.0000	0.0000	0.0000
10 1 88 END SQ,RT,SUM OF SQ	2275.	1122.	2616.	119630.	161349.	79701.	.000	.000	.000	.0000	.0000	.0000
10 2 88 BEG SQ,RT,SUM OF SQ	2275.	1122.	2616.	119630.	161349.	79701.	.000	.000	.000	.0006	.0000	.0000
10 2 90 END SQ,RT,SUM OF SQ	2275.	1122.	2616.	99730.	87649.	85065.	.000	.000	.000	.0006	.0000	.0000
11 1 90 BEG SQ,RT,SUM OF SQ	2225.	1099.	2585.	99730.	87649.	85065.	.000	.000	.000	.0006	.0000	.0000
11 1 95 END SQ,RT,SUM OF SQ	2225.	1099.	2585.	99415.	86208.	85170.	.000	.000	.000	.0000	.0000	.0000
11 2 95 BEG SQ,RT,SUM OF SQ	2225.	1099.	2585.	99415.	86208.	85170.	.000	.000	.000	.0006	.0000	.0000
11 2 100 END SQ,RT,SUM OF SQ	2225.	1099.	2585.	34139.	29047.	7217.	.005	.003	.005	.0001	.0001	.0001
12 1 100 BEG SQ,RT,SUM OF SQ	1659.	1054.	2073.	34139.	29047.	7217.	.005	.003	.005	.0001	.0001	.0001
12 1 105 END SQ,RT,SUM OF SQ	1659.	1054.	2073.	63433.	29047.	31783.	.006	.003	.006	.0001	.0001	.0001
12 2 105 BEG SQ,RT,SUM OF SQ	1659.	1054.	2073.	63433.	29047.	31783.	.006	.003	.006	.0001	.0001	.0001
12 2 107 END SQ,RT,SUM OF SQ	1659.	1054.	2073.	176219.	29047.	122932.	.008	.003	.011	.0001	.0001	.0000
13 1 107 BEG SQ,RT,SUM OF SQ	285.	1131.	434.	176219.	29047.	122932.	.008	.003	.011	.0001	.0001	.0000

13 1 107 BEG
SG,R[redacted] OF [redacted] 28[redacted] 113[redacted] 434 [redacted]76216 [redacted]29047 [redacted]122972 [redacted] ,00[redacted] ,003 [redacted]011 [redacted] ,0001 ,0000

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
13 1 110 END SG,RT,SUM OF SG	285.	1131.	434.	191161.	29047.	133022.	.010	.003	.013	.0006	.0001	.0000
13 2 110 BEG SG,RT,SUM OF SG	285.	1131.	434.	191161.	29047.	133022.	.010	.003	.013	.0006	.0001	.0000
13 2 115 END SG,RT,SUM OF SG	285.	1131.	434.	206167.	29047.	143114.	.010	.003	.014	.0000	.0001	.0000
14 1 115 BEG SG,RT,SUM OF SG	402.	1201.	473.	206167.	29047.	143114.	.010	.003	.014	.0000	.0001	.0000
14 1 120 END SG,RT,SUM OF SG	402.	1201.	473.	189496.	29047.	129018.	.010	.003	.014	.0000	.0001	.0000
14 2 120 BEG SG,RT,SUM OF SG	402.	1201.	473.	189496.	29047.	129018.	.010	.003	.014	.0000	.0001	.0000
14 2 125 END SG,RT,SUM OF SG	402.	1201.	473.	172844.	29047.	114965.	.009	.003	.013	.0000	.0001	.0000
15 1 125 BEG SG,RT,SUM OF SG	1092.	1304.	1442.	172844.	29047.	114965.	.009	.003	.013	.0000	.0001	.0000
15 1 130 END SG,RT,SUM OF SG	1092.	1304.	1442.	103653.	29047.	63490.	.006	.003	.010	.0001	.0001	.0001
15 2 130 BEG SG,RT,SUM OF SG	1092.	1304.	1442.	103653.	29047.	63490.	.006	.003	.010	.0001	.0001	.0001
15 2 135 END SG,RT,SUM OF SG	1092.	1304.	1442.	34470.	29047.	18338.	.003	.003	.006	.0001	.0001	.0001
16 1 135 BEG SG,RT,SUM OF SG	1331.	1425.	1892.	34470.	29047.	18338.	.003	.003	.006	.0001	.0001	.0001
16 1 140 END SG,RT,SUM OF SG	1331.	1425.	1892.	10173.	29047.	17921.	.002	.003	.005	.0001	.0001	.0001
16 2 140 BEG SG,RT,SUM OF SG	1331.	1425.	1892.	10173.	29047.	17921.	.002	.003	.005	.0001	.0001	.0001
16 2 145 END SG,RT,SUM OF SG	1331.	1425.	1892.	96487.	47440.	61792.	.000	.000	.000	.0000	.0000	.0000
16 3 145 BEG SG,RT,SUM OF SG	1331.	1425.	1892.	96487.	47440.	61792.	.000	.000	.000	.0000	.0000	.0000
16 3 150 END SG,RT,SUM OF SG	1331.	1425.	1892.	97247.	48153.	62098.	.000	.000	.000	.0000	.0000	.0000

16 3 150 END
SQ,R[redacted] OF [redacted] 133[redacted] 1429[redacted] 1892[redacted] 97247[redacted] 48153[redacted] 62098[redacted] .000[redacted] .000[redacted] 000 [redacted] .0000 .0000 [redacted]

NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
17 1 150 BEG SQ,RT,SUM OF SQ	1334.	1444.	1909.	97247.	48153.	62098.	.000	.000	.000	.0000	.0000	.0000
17 1 155 END SQ,RT,SUM OF SQ	1334.	1444.	1909.	140164.	92491.	87193.	.000	.000	.000	.0000	.0000	.0000
18 1 20 BEG SQ,RT,SUM OF SQ	1008.	295.	3592.	9708.	663528.	75681.	.024	.006	.014	.0003	.0006	.0002
18 1 160 END SQ,RT,SUM OF SQ	1008.	295.	3592.	9708.	553178.	67080.	.024	.003	.040	.0003	.0016	.0001
18 2 160 BEG SQ,RT,SUM OF SQ	1008.	295.	3592.	9708.	553178.	67080.	.024	.003	.040	.0003	.0016	.0001
18 2 165 END SQ,RT,SUM OF SQ	1008.	295.	3592.	9708.	443156.	58639.	.024	.005	.100	.0003	.0024	.0001
18 3 165 BEG SQ,RT,SUM OF SQ	1008.	295.	3592.	9708.	443156.	58639.	.024	.005	.100	.0003	.0024	.0001
18 3 167 END SQ,RT,SUM OF SQ	1008.	295.	3592.	9708.	300261.	47973.	.024	.006	.202	.0002	.0026	.0001
19 1 167 BEG SQ,RT,SUM OF SQ	513.	373.	3243.	9708.	300261.	47973.	.024	.006	.202	.0002	.0026	.0001
19 1 170 END SQ,RT,SUM OF SQ	513.	373.	3243.	9708.	170464.	33024.	.024	.008	.319	.0002	.0031	.0001
19 2 170 BEG SQ,RT,SUM OF SQ	513.	373.	3243.	9708.	170464.	33024.	.024	.008	.319	.0002	.0031	.0001
19 2 175 END SQ,RT,SUM OF SQ	513.	373.	3243.	9708.	42177.	18121.	.024	.012	.451	.0002	.0034	.0002
20 1 175 BEG SQ,RT,SUM OF SQ	403.	333.	3060.	9708.	42177.	18121.	.024	.012	.451	.0002	.0034	.0002
20 1 180 END SQ,RT,SUM OF SQ	403.	333.	3060.	9708.	83176.	4962.	.024	.019	.586	.0002	.0033	.0002
20 2 180 BEG SQ,RT,SUM OF SQ	403.	333.	3060.	9708.	83176.	4962.	.024	.019	.586	.0002	.0033	.0002
20 2 185 END SQ,RT,SUM OF SQ	403.	333.	3060.	9708.	141262.	2341.	.024	.023	.649	.0002	.0032	.0002
20 3 185 BEG SQ,RT,SUM OF SQ	403.	333.	3060.	9708.	141262.	2341.	.024	.023	.649	.0002	.0032	.0002

NINE MILE POWER STAT MODEL 1 Z SHOCK

20 3 185 BEG
SQ,RT,SUM OF SQ 403. 333. 3060. 9708. 141262. 2301. .024 .023 .649 .0003 .0032 .0002

NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
20 3 190 END SQ,RT,SUM OF SQ	403.	333.	3060.	8777.	204108.	9339.	.068	.028	.707	.0001	.0018	.0002
21 1 190 BEG SQ,RT,SUM OF SQ	304.	207.	2839.	8777.	204108.	9339.	.068	.028	.707	.0001	.0018	.0002
21 1 195 END SQ,RT,SUM OF SQ	304.	207.	2839.	8818.	204085.	9345.	.069	.028	.707	.0001	.0018	.0002
21 2 195 BEG SQ,RT,SUM OF SQ	304.	207.	2839.	8818.	204085.	9345.	.069	.028	.707	.0001	.0018	.0002
21 2 200 END SQ,RT,SUM OF SQ	304.	207.	2839.	8860.	204062.	9352.	.069	.028	.707	.0001	.0018	.0002
21 3 200 BEG SQ,RT,SUM OF SQ	304.	207.	2839.	8860.	204062.	9352.	.069	.028	.707	.0001	.0018	.0002
21 3 205 END SQ,RT,SUM OF SQ	304.	207.	2839.	12821.	143524.	5384.	.094	.025	.690	.0001	.0003	.0002
22 1 205 BEG SQ,RT,SUM OF SQ	222.	128.	2689.	12821.	143524.	5384.	.094	.025	.690	.0001	.0003	.0002
22 1 210 END SQ,RT,SUM OF SQ	222.	128.	2689.	12821.	115630.	4038.	.094	.023	.688	.0001	.0003	.0002
22 2 210 BEG SQ,RT,SUM OF SQ	222.	128.	2689.	12821.	115630.	4038.	.094	.023	.688	.0001	.0003	.0002
22 2 215 END SQ,RT,SUM OF SQ	222.	128.	2689.	12821.	87953.	2692.	.094	.021	.686	.0001	.0002	.0002
22 3 215 BEG SQ,RT,SUM OF SQ	222.	128.	2689.	12821.	87953.	2692.	.094	.021	.686	.0001	.0002	.0002
22 3 220 END SQ,RT,SUM OF SQ	222.	128.	2689.	14864.	35655.	0.	.091	.018	.686	.0000	.0002	.0002
23 1 220 BEG SQ,RT,SUM OF SQ	119.	24.	2371.	14864.	35655.	0.	.091	.018	.686	.0000	.0002	.0002
23 1 225 END SQ,RT,SUM OF SQ	119.	24.	2371.	14701.	34126.	0.	.087	.018	.686	.0000	.0003	.0002
23 2 225 BEG SQ,RT,SUM OF SQ	119.	24.	2371.	14701.	34126.	0.	.087	.018	.686	.0000	.0003	.0002
23 2 230 END SQ,RT,SUM OF SQ	119.	24.	2371.	14361.	30813.	0.	.077	.017	.687	.0000	.0003	.0002

NINE MILE POWER STAT MODEL 1 Z SHOCK

23 2 230 END
SQ,RT,SUM OF SQ 119 24. 2371. 14361 30813 0 .077 .017 .687 .0003 .0002

NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL FORCE, MOMENT, DEFLECTION, ROTATION SUMMARY, TOTAL NUMBER OF MODES 20

SEC MEM POS	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
23 3 230 BEG SQ,RT,SUM OF SQ	119.	24.	2371.	14361.	30813.	0.	.077	.017	.687	.0000	.0003	.0002
23 3 235 END SQ,RT,SUM OF SQ	119.	24.	2371.	14071.	27821.	0.	.064	.015	.687	.0001	.0004	.0002
23 4 235 BEG SQ,RT,SUM OF SQ	119.	24.	2371.	14071.	27821.	0.	.064	.015	.687	.0001	.0004	.0002
23 4 240 END SQ,RT,SUM OF SQ	119.	24.	2371.	13833.	25264.	0.	.050	.013	.687	.0001	.0004	.0002
24 1 240 BEG SQ,RT,SUM OF SQ	225.	123.	1951.	13833.	25264.	0.	.050	.013	.687	.0001	.0004	.0002
24 1 245 END SQ,RT,SUM OF SQ	225.	123.	1951.	9222.	16842.	0.	.034	.009	.687	.0001	.0004	.0002
24 2 245 BEG SQ,RT,SUM OF SQ	225.	123.	1951.	9222.	16842.	0.	.034	.009	.687	.0001	.0004	.0002
24 2 250 END SQ,RT,SUM OF SQ	225.	123.	1951.	4611.	8421.	0.	.017	.005	.687	.0001	.0005	.0002
24 3 250 BEG SQ,RT,SUM OF SQ	225.	123.	1951.	4611.	8421.	0.	.017	.005	.687	.0001	.0005	.0002
24 3 255 DIS SQ,RT,SUM OF SQ	0.	0.	0.	0.	0.	0.	.000	.000	.687	.0001	.0005	.0002
24 3 255 END SQ,RT,SUM OF SQ	225.	123.	1951.	0.	0.	0.	.000	.000	.687	.0001	.0005	.0002

NINE MILE POWER STAT MODEL 1 Z SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
RMS MODAL SUMMARY
NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT	SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)
1	5	4581.	5609.	5034.	185657.	487227.	348280.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	15	163.	68.	105.	0.	0.	0.	.0193	.0061	.0081	.0003	.0005	.0002
3	20	307.	91.	241.	0.	0.	0.	.0238	.0061	.0141	.0003	.0006	.0002
4	30	703.	106.	670.	0.	0.	0.	.0393	.0061	.0337	.0002	.0005	.0002
5	40	973.	106.	974.	0.	0.	0.	.0511	.0061	.0486	.0002	.0005	.0001
6	50	1635.	161.	1681.	0.	0.	0.	.0552	.0061	.0552	.0000	.0004	.0000
7	57	4049.	542.	4410.	0.	0.	0.	.0405	.0061	.0435	.0002	.0004	.0002
8	70	259.	139.	394.	0.	0.	0.	.0106	.0060	.0162	.0003	.0003	.0003
9	85	40.	50.	80.	0.	0.	0.	.0004	.0005	.0007	.0000	.0000	.0000
10	87	5064.	5580.	5725.	126001.	415823.	342338.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	90	52.	31.	36.	0.	0.	0.	.0002	.0001	.0002	.0000	.0000	.0000
12	100	567.	311.	518.	0.	0.	0.	.0047	.0028	.0046	.0001	.0001	.0001
13	107	1375.	416.	1647.	0.	0.	0.	.0084	.0028	.0109	.0001	.0001	.0000
14	115	684.	170.	895.	0.	0.	0.	.0101	.0028	.0143	.0000	.0001	.0000
15	125	690.	199.	973.	0.	0.	0.	.0086	.0027	.0132	.0000	.0001	.0000
16	135	240.	200.	452.	0.	0.	0.	.0029	.0027	.0060	.0001	.0001	.0001
17	150	7.	23.	19.	0.	0.	0.	.0001	.0005	.0004	.0000	.0000	.0000
18	155	1334.	1444.	1909.	140164.	92491.	87193.	.0000	.0000	.0000	.0000	.0000	.0000
19	167	526.	174.	708.	0.	0.	0.	.0239	.0061	.2018	.0002	.0026	.0001
20	175	129.	46.	239.	0.	0.	0.	.0239	.0123	.4511	.0002	.0034	.0002
21	190	106.	128.	228.	0.	0.	0.	.0680	.0282	.7066	.0001	.0018	.0002
22	205	93.	81.	155.	0.	0.	0.	.0935	.0253	.6904	.0001	.0003	.0002
23	220	196.	126.	318.	0.	0.	0.	.0912	.0178	.6364	.0000	.0002	.0002
24	240	193.	120.	420.	0.	0.	0.	.0501	.0127	.6667	.0001	.0004	.0002
25	255	225.	123.	1951.	0.	0.	0.	.0000	.0000	.6870	.0001	.0005	.0002

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK
RMS MODAL SUMMARY
NETWORK POINT REACTIONS AND DEFLECTIONS

NET PT SEQ	FX (LB)	FY (LB)	FZ (LB)	MX (IN-LB)	MY (IN-LB)	MZ (IN-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (RAD)	RY (RAD)	RZ (RAD)

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEG	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
1	1	5	BEG	RU	328.4	864.8	1086.0	0.0	1.000	1.000
		10	END	RU	327.9	864.4	1085.1	0.0	1.000	1.000
1	2	10	BEG	EL	327.9	1908.7	2018.2	0.0	2.208	2.208
		15	END	EL	-445.9	722.0	1147.4	0.0	2.208	2.208
2	1	15	BEG	RU	-445.9	327.0	949.8	0.0	1.000	1.000
		20	END	RU	-445.9	297.2	940.0	0.0	1.000	1.000
3	1	20	BEG	RU	-147.7	306.3	425.6	0.0	1.000	1.000
		25	END	RU	-147.7	332.7	444.9	0.0	1.000	1.000
3	2	25	BEG	RU	-147.7	332.7	444.9	0.0	1.000	1.000
		30	END	RU	-147.7	523.8	601.4	0.0	1.000	1.000
4	1	30	BEG	RU	-147.7	523.8	601.4	0.0	1.000	1.000
		35	END	RU	-147.7	707.9	767.1	0.0	1.000	1.000
4	2	35	BEG	RU	-147.7	707.9	767.1	0.0	1.000	1.000
		40	END	RU	-147.7	904.2	951.2	0.0	1.000	1.000
5	1	40	BEG	RU	-147.7	904.2	951.2	0.0	1.000	1.000
		45	END	RU	-147.7	1022.8	1064.6	0.0	1.000	1.000
5	2	45	BEG	RU	-147.7	1022.8	1064.6	0.0	1.000	1.000
		50	END	RU	-147.7	1143.5	1181.0	0.0	1.000	1.000
6	1	50	BEG	RU	-147.7	1143.5	1181.0	0.0	1.000	1.000
		55	END	RU	-147.7	1108.5	1147.2	0.0	1.000	1.000
6	2	55	BEG	RU	-72.4	543.2	562.2	0.0	1.000	1.000
		57	END	RU	-72.4	525.5	545.1	0.0	1.000	1.000
7	1	57	BEG	RU	-147.7	1072.2	1112.2	0.0	1.000	1.000
		60	END	RU	-147.7	644.4	709.0	0.0	1.000	1.000
7	2	60	BEG	RU	-147.7	644.4	709.0	0.0	1.000	1.000
		65	END	RU	-147.7	233.4	376.5	0.0	1.000	1.000
7	3	65	BEG	RU	-147.7	233.4	376.5	0.0	1.000	1.000
		70	END	RU	-147.7	203.3	358.7	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
8	1	70	BEG	RU	-147.7	203.3	358.7	0.0	1.000	1.000
		75	END	RU	-147.7	209.1	362.0	0.0	1.000	1.000
8	2	75	BEG	EL	-147.7	461.7	548.1	0.0	2.208	2.208
		80	END	EL	234.1	1291.1	1373.4	0.0	2.208	2.208
8	3	80	BEG	RU	234.1	584.7	749.1	0.0	1.000	1.000
		85	END	RU	233.8	588.8	751.9	0.0	1.000	1.000
9	1	85	BEG	RU	51.4	130.1	165.8	0.0	1.000	1.000
		86	END	RU	47.2	184.6	207.4	0.0	1.000	1.000
9	2	86	BEG	RU	47.2	184.6	207.4	0.0	1.000	1.000
		87	END	RU	67.7	130.8	188.3	0.0	1.000	1.000
10	1	87	BEG	RU	23.3	83.6	95.8	0.0	1.000	1.000
		88	END	RU	25.2	65.4	82.5	0.0	1.000	1.000
10	2	88	BEG	RU	25.2	65.4	82.5	0.0	1.000	1.000
		90	END	RU	-12.6	54.7	60.2	0.0	1.000	1.000
11	1	90	BEG	RU	-57.2	248.0	273.1	0.0	1.000	1.000
		95	END	RU	-57.3	246.1	271.5	0.0	1.000	1.000
11	2	95	BEG	EL	-57.3	543.4	555.4	0.0	2.208	2.208
		100	END	EL	25.2	133.4	142.6	0.0	2.208	2.208
12	1	100	BEG	RU	25.2	60.4	78.6	0.0	1.000	1.000
		105	END	RU	25.2	122.9	132.8	0.0	1.000	1.000
12	2	105	BEG	RU	12.3	60.2	65.1	0.0	1.000	1.000
		107	END	RU	12.3	182.4	184.0	0.0	1.000	1.000
13	1	107	BEG	RU	25.2	372.1	375.5	0.0	1.000	1.000
		110	END	RU	25.2	403.4	406.5	0.0	1.000	1.000
13	2	110	BEG	RU	25.2	403.4	406.5	0.0	1.000	1.000
		115	END	RU	25.2	434.7	437.6	0.0	1.000	1.000
14	1	115	BEG	RU	25.2	434.7	437.6	0.0	1.000	1.000
		120	END	RU	25.2	397.1	400.2	0.0	1.000	1.000
14	2	120	BEG	RU	25.2	397.1	400.2	0.0	1.000	1.000
		125	END	RU	25.2	359.5	363.0	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
15	1	125	BEG	RU	25.2	359.5	363.0	0.0	1.000	1.000
		130	END	RU	25.2	210.5	216.5	0.0	1.000	1.000
15	2	130	BEG	RU	25.2	210.5	216.5	0.0	1.000	1.000
		135	END	RU	25.2	67.6	84.3	0.0	1.000	1.000
16	1	135	BEG	RU	25.2	67.6	84.3	0.0	1.000	1.000
		140	END	RU	25.2	35.7	61.7	0.0	1.000	1.000
16	2	140	BEG	EL	25.2	78.8	93.5	0.0	2.208	2.208
		145	END	EL	-86.2	283.1	331.4	0.0	2.208	2.208
16	3	145	BEG	RU	-86.2	128.2	214.8	0.0	1.000	1.000
		150	END	RU	-86.7	129.7	216.5	0.0	1.000	1.000
17	1	150	BEG	RU	-86.7	129.7	216.5	0.0	1.000	1.000
		155	END	RU	-119.0	225.4	327.7	0.0	1.000	1.000
18	1	20	BEG	RU	-49.3	6778.8	6779.6	0.0	1.000	1.000
		160	END	RU	-49.3	5656.2	5657.1	0.0	1.000	1.000
18	2	160	BEG	RU	-49.3	5656.2	5657.1	0.0	1.000	1.000
		165	END	RU	-49.3	4537.5	4538.6	0.0	1.000	1.000
18	3	165	BEG	RU	-19.2	1769.6	1770.0	0.0	1.000	1.000
		167	END	RU	-19.2	1203.7	1204.3	0.0	1.000	1.000
19	1	167	BEG	RU	-49.3	3086.5	3088.0	0.0	1.000	1.000
		170	END	RU	-49.3	1762.5	1765.2	0.0	1.000	1.000
19	2	170	BEG	RU	-49.3	1762.5	1765.2	0.0	1.000	1.000
		175	END	RU	-49.3	466.0	476.3	0.0	1.000	1.000
20	1	175	BEG	RU	-49.3	466.0	476.3	0.0	1.000	1.000
		180	END	RU	-49.3	845.8	851.5	0.0	1.000	1.000
20	2	180	BEG	RU	-49.3	845.8	851.5	0.0	1.000	1.000
		185	END	RU	-49.3	1434.1	1437.5	0.0	1.000	1.000
20	3	185	BEG	EL	-49.3	2548.3	2550.2	0.0	1.777	1.777
		190	END	EL	121.1	3663.6	3671.6	0.0	1.777	1.777
21	1	190	BEG	RU	118.6	2062.3	2075.9	0.0	1.000	1.000
		195	END	RU	118.6	2062.1	2075.7	0.0	1.000	1.000

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
[illegible] SQUARE ROOT SUM OF THE SQUARE.

ARTHUR D. LITTLE INC. ADLPIPE STRESS ANALYSIS
NINE MILE POWER STAT MODEL 1 Z SHOCK

MODAL STRESS SUMMARY, TOTAL NUMBER OF MODES 20
BENDING MOMENTS ARE SQUARE ROOT SUM OF THE SQUARE.
USAS B31.1 STRESS SUMMARY

SEC	MEM	SEQ	POS	TYPE	TORSION	BENDING	COMBINED	PRESSURE	INTENSIFICATION FACTORS IN PLANE	TRANSVERSE
21	2	195	BEG	RU	118.6	2062.1	2075.7	0.0	1.000	1.000
		200	END	RU	121.3	2061.3	2075.5	0.0	1.000	1.000
21	3	200	BEG	EL	121.3	3662.8	3670.8	0.0	1.777	1.777
		205	END	EL	65.1	2590.6	2593.9	0.0	1.777	1.777
22	1	205	BEG	RU	65.1	1457.9	1463.7	0.0	1.000	1.000
		210	END	RU	65.1	1174.4	1181.6	0.0	1.000	1.000
22	2	210	BEG	RU	65.1	1174.4	1181.6	0.0	1.000	1.000
		215	END	RU	65.1	893.2	902.6	0.0	1.000	1.000
22	3	215	BEG	EL	65.1	1587.2	1592.5	0.0	1.777	1.777
		220	END	EL	.0	696.8	696.8	0.0	1.777	1.777
23	1	220	BEG	RU	.0	392.1	392.1	0.0	1.000	1.000
		225	END	RU	.0	377.2	377.2	0.0	1.000	1.000
23	2	225	BEG	RU	.0	377.2	377.2	0.0	1.000	1.000
		230	END	RU	.0	345.1	345.1	0.0	1.000	1.000
23	3	230	BEG	RU	.0	345.1	345.1	0.0	1.000	1.000
		235	END	RU	.0	316.5	316.5	0.0	1.000	1.000
23	4	235	BEG	RU	.0	316.5	316.5	0.0	1.000	1.000
		240	END	RU	.0	292.4	292.4	0.0	1.000	1.000
24	1	240	BEG	RU	.0	292.4	292.4	0.0	1.000	1.000
		245	END	RU	.0	194.9	194.9	0.0	1.000	1.000
24	2	245	BEG	RU	.0	194.9	194.9	0.0	1.000	1.000
		250	END	RU	.0	97.5	97.5	0.0	1.000	1.000
24	3	250	BEG	RU	.0	97.5	97.5	0.0	1.000	1.000
		255	END	RU	.0	.0	.0	0.0	1.000	1.000

END OF RUN.

END OF RUN.

UNIPOST V2.1 INPUT DIRECTIVES

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INCR=0.005*SURFACE=60.,36.*SCALE=1.0*DRA
NEXT DIRECTIVE

*** DRA        IS AN INVALID DIRECTIVE
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**** TWIN CITIES CYBERNET CENTER V2.1.5 ****      04/09/79      79099

HH.MM.SS CPU SECOND ORIGIN
         07.00.24.TCA. JE     TCA  SCOPE 3.4.3    406F.102  02/12/79
07.01.43 00000.006 TCZ.     -SDW3245,T2000,P4,STTCZ.
07.01.43 00000.006 TCZ.        CYB02 - JOB NAME-  SDW321M
07.01.43 00000.007 JOB.     -ACCOUNT(B2305**176,ADLPIPE)
07.01.43 00000.034 JOB.     -STAGE(TAPE14,POST,MT,HI,)
07.01.43 00000.037 JOB.     -MAP(OFF)
07.01.43 00000.039 JOB.     -ATTACH(ADLPIPE,ADLPIPEJUL,ID=APPLIC,MR=1)
07.01.44 00000.043 TCZ.        PF254 - CYCLE    1 ATTACHED FROM SN=SYSTEM
07.01.44 00000.044 JOB.     -ATTACH(UNIPLOT,UNIPLOT,ID=APPLIC)
07.01.44 00000.047 TCZ.        PF254 - CYCLE    1 ATTACHED FROM SN=SYSTEM
07.01.44 00000.048 JOB.     -ATTACH(UNIPOST,UNIPOST,ID=APPLIC)
07.01.44 00000.052 TCZ.        PF254 - CYCLE    1 ATTACHED FROM SN=SYSTEM
07.01.44 00000.052 JOB.     -LIBRARY(UNIPLOT)
07.01.44 00000.060 JOB.     -FILE(TAPE99,RT=Z,FL=140.)
07.01.44 00000.061 LCD.     -ADLPIPE.
07.01.51 00001.362 TCZ.        LD605 - ABSOLUTE FILE WRITTEN OS.COG
07.01.51 00001.362 TCZ.        LD610 - FLS REQUIRED TO LOAD - 0016454 OS.OVGX
07.01.52 00001.399 USR.      FORTRAN LIBRARY 433           05/11/77
07.01.55 00002.965 USR.      $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
07.01.55 00002.966 USR.      $                                      $
07.01.55 00002.966 USR.      $  UNIPLOT V2.1 PLOT ROUTINES          $
07.01.55 00002.966 USR.      $  FILE NAME = NPFILE                  $
07.01.55 00002.966 USR.      $                                      $
07.01.55 00002.967 USR.      $         NPF V2.1  INCH               $
07.01.55 00002.967 USR.      $                                      $
07.01.55 00002.967 USR.      $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
07.03.03 00029.495 USR.       EXIT
07.03.03 00029.496 USR.         28.095 CP SECONDS EXECUTION TIME
07.03.03 00029.496 TCZ.       JM043 - JOB REPRIEVED
07.03.03 00029.497 LCD.     -REWIND(TAPE99)
07.03.03 00029.503 LCD.     -COPY(TAPE99,NPFILE)
07.03.03 00029.511 USR.       UT031 - EOI ENCOUNTERED
07.03.03 00029.512 USR.       UT035 -     EOR -          0    EOS =          0    EOF = 1
07.03.03 00029.512 LCD.     -REWIND(NPFILE)
07.03.03 00029.518 LCD.     -UNIPOST(D=CCPEOCC,I)
07.03.03 00029.524 USR.      FORTRAN LIBRARY 433           05/11/77
07.03.03 00029.525 USR.      $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
07.03.03 00029.525 USR.      $                                      $
07.03.03 00029.525 USR.      $  UNIPOST V2.1 POST PROCESSOR         $
07.03.03 00029.527 USR.      $                                      $
07.03.03 00029.527 USR.      $         NPF V2.1  INCH               $
07.03.03 00029.527 USR.      $                                      $
07.03.03 00029.527 USR.      $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
07.03.03 00029.528 USR.      $                                      $
07.03.03 00029.528 USR.      $    NPFILE NAME = NPFILE              $
07.03.03 00029.528 USR.      $ PLOT FILE NAME = PLOTF               $
07.03.03 00029.528 USR.      $                                      $
07.03.04 00029.662 USR.      $                                      $
07.03.04 00029.662 USR.      $       PICTURES =     4               $
07.03.04 00029.662 USR.      $                                      $
07.03.04 00029.663 USR.      $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
07.03.04 00029.664 USR.         STOP
07.03.04 00029.664 USR.          .139 CP SECONDS EXECUTION TIME
07.03.04 00029.664 TCZ.       JM043 - JOB REPRIEVED
07.03.04 00029.665 LCD.     -REWIND(PLOTF)
07.03.04 00029.671 JOB.     -DISPOSE(PLOTF,PT)
07.03.04 00029.672 TCZ.        CYB01 - FILE PLOTF   DC=30 ST=TCAIJE SIZE=0000000010 ICDB
07.03.05 00029.672 JOB.     -NDFILE(2)
07.03.05 00029.673 JOB.     -EXIT(S)
07.03.05 00029.673 TCZ.        CYB01 - FILE SDW321M DC=04 ST=TCAIJE SIZE=0000000010 IODB
07.03.05 00029.678 TCZ.        CYB01 - FILE OUTPUT  DC=40 ST=TCAIJE SIZE=0000001005 IODB
07.03.05 00029.678 TCZ.        RM770 - MAXIMUM ACTIVE FILES                14
07.03.05 00029.679 TCZ.        RM771 - OPEN/CLOSE CALLS                   195
07.03.05 00029.679 TCZ.        RM772 - DATA TRANSFER CALLS             59,819
07.03.05 00029.679 TCZ.        RM773 - CONTROL/POSITIONING CALLS        1,022
07.03.05 00029.679 TCZ.        RM774 - BM DATA TRANSFER CALLS          13,601
07.03.05 00029.679 TCZ.        RM775 - BM CONTROL/POSITIONING CALLS       344
07.03.05 00029.679 TCZ.        RM776 - QUEUE MANAGER CALLS              2,490
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07.03.05 00029.678 TCZ.    CY801 - FILE OUTPUT  DC=40 ST=TCATJE SIZE=0000000010 ICDB
[redacted]3.05 [redacted]9.6[redacted]2.    [redacted]  RM[redacted]MAX[redacted]ACTI[redacted]LES[redacted]  [redacted]  [redacted]  [redacted]  [redacted]  [redacted]  [redacted]  [redacted]
[redacted]3.05 [redacted]9.67[redacted]2.    [redacted]  RM771 - OPEN/CLOSE CALLS                          195
07.03.05 00029.679 TCZ.    RM772 - DATA TRANSFER CALLS                        59,819
07.03.05 00029.679 TCZ.    RM773 - CONTROL/POSITIONING CALLS                   1,022
07.03.05 00029.679 TCZ.    RM774 - BM DATA TRANSFER CALLS                     13,601
07.03.05 00029.679 TCZ.    RM775 - BM CONTROL/POSITIONING CALLS                 344
07.03.05 00029.679 TCZ.    RM776 - QUEUE MANAGER CALLS                         2,090
07.03.05 00029.680 TCZ.    RM777 - RECALL CALLS                                1,548
07.03.05 00029.681 TCZ.    SBU                 106
07.03.05 00029.681 TCZ.    SC053 -        JOB PRIORITY - P0
```