

| | | | |
|---|----------|----------------|------------|
| NUCLEAR DEPARTMENT WOR SURVEILLANCE TEST | ACTIVITY | ACT TYPE FW | TASK ST |
|---|----------|----------------|------------|

12/11/97 10:51:00 AM

W/O: 970915562 ACT: 01

SECTION 1 -- TASK DESCRIPTION

ORIGINAL

| | | | |
|------------|-----------|----------------------|---|
| JNIT HC | PRI 01 | RESP D/G ESSE ISI | W/O SUMMARY SNUBBER FUNCTIONAL TESTING |
|------------|-----------|----------------------|---|

FEG/COMP ID: 1-P-FD-006-H022 MUC: C LOC: 4227D SYSTEM: FD

TURBINE OS211 EXHAUST TO PEN P201;HV-F075,V064;LINE FD-007

SERIAL NBR:

ACT SUMMARY: REMOVE-REPLACE SNUBBER FOR TESTING

ACT DESC-1: REMOVE SNUBBER FOR FUNCTIONAL TESTING, DECON AND TRANSPORT TO THE SNUBBER TEST CAGE. REPLACE SNUBBER AFTER TESTING IS COMPLETE.

HPCI TURBINE OS211 EXHAUST TO PEN P201, HV-F075, V064

FOR INFORMATION ONLY

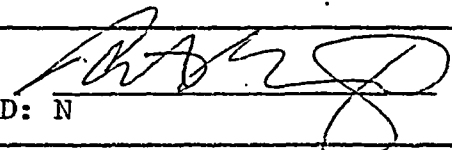
SECTION 2 -- PLANNING INFORMATION

| | | | | |
|---|----------------|----------------|------------------|----|
| PLANNER: BRAMMEIER 3152 | QAR | SAFETY CLASS/ | SEISMIC | EQ |
| SUPERVISOR: BRAMMEIER+ 3152 R7 | Q | QGC B | 1 | M |
| DR# - - - | DCR# - 00000 - | PKG 00000 | RC#: 0144 | |
| WORK STANDARDS: <u>SH.MD - GP. 22 - 000</u> | (HP W/STD): | HISTORY | AUTH NO: | |
| TEMPORARY MODIFICATION # 00 0000 | | | ACCT NO: E530040 | |
| CODE JOB PKG | | | PRG PLN: U23000 | |
| | | | LOC: 1616 | |
| | | | PLN JOB#: 936359 | |

SECTION 3 -- SCHEDULING INFORMATION

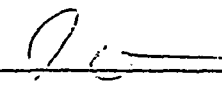
| | | | | | |
|------------------------------------|------------------------|--------------------|------|------|------|
| SCHED START DATE: 09/08/97 | OVERDUE DATE: 10/30/97 | ESTIMATED MANPOWER | | | |
| SYS OTG: LCO NO: R7 3900 R7 - 5300 | | MAN | | | |
| TAG NBR: | | COD | NBR | DUR | EST |
| SCHEDULER: | | SUP | 001 | 1.0 | 1.0 |
| SCHEDULER COMMENTS: | | CPF | 002 | 24.0 | 48.0 |
| | | | 000 | 0.0 | 0.0 |
| | | | 000 | 0.0 | 0.0 |
| | | TOTAL HRS: | 24.0 | | |

SECTION 4 -- PERMISSION TO BEGIN

| | | | |
|-------------------------------|---|-------------|--------------------|
| S/S PERMISSION TO BEGIN WORK: |  | DATE: _____ | TIME: _____ |
| TAGGING REQUIRED: N | | | 09-04-97 P12:54 IN |

SECTION 5 -- CLOSE OUT

| | | | |
|--------------------------------------|-----------------------|-------------------------|---------------------------------|
| PERSON COMPLETING WORK <u>WRS</u> | BADGE <u>02-02</u> | DATE <u>11/13/97</u> | ACTUAL MANHOURS |
| WORK SUPERVISOR <u>WRS</u> | BADGE <u>02-02</u> | DATE <u>11/13/97</u> | MANPOWER: <u>SUP</u> <u>00C</u> |
| REPEAT WORK {N} (Y/N) | | | MEN REQ: <u>1</u> <u>1</u> |
| | | | DURATION: <u>1.0</u> <u>1.0</u> |

MIS TAG# _____
/S SIGNOFF:  DATE: 11/13/97

ACTIVITY CLOSEOUT SHEET

RT NO.
771111

TASK
ST

W/O: 970915562 ACT: 01

PAGE 2 OF 2

M+TE
EQUIPMENT
USED/NEEDED

TW# 204000 DUE 11-21-97 TW# 202648 DUE 3-4-98

DEFICIENCY REPORTS INITIATED

COMPONENT SERIAL # 61380/37

SERIAL # UPDATE 10/13/92

MRULE SSC Y FAILED PARTS

DESCRIPTION OF WORK PERFORMED:

Removed PSA 3 SN. 20644 from
1-P. FD-006 - H022. ^{DB 10-3-97} INSTALLED LISEGA 3052 SN. 61380/37.

Torqued load stud to 145 ft & ext jam nut to 59 ft lbs.

~~M/S 10-3-97~~ DB 11-12-97

AS FOUND CONDITION:

REPAIR ACTIONS TAKEN:

FAILURE CAUSE:

PMT PERFORMED:

N/A ^{M/S} 10-3-97

CAUSE - MECHANICAL

AB - FOREIGN/INCORRECT MATERIAL (WATER IN OIL)
 AC - PARTICULATE CONTAMINATION (BUILDUP OF SOLIDS IN FLUID SYS.)
 AD - NORMAL / ABNORMAL WEAR
 AE - PROBLEM LUBRICATION (LACK OF / INADEQUATE)
 AF - WELD RELATED (FRACTURE, CRACK, HAZARD FAILURE)
 AG - ABNORMAL STRESS (LOAD, VIBRATION, TEMP, PRESSURE, FLOW)
 AV - LOOSE PARTS, CONNECTIONS, OR FASTENERS
 AZ - MATERIAL DEFECTIVE (FLAW)
 BB - MECHANICAL DAMAGE (UNKNOWN MECHANICAL FAULTS OR FAILURES)
 BC - OUT OF ADJUSTMENT (LOOSE PARTS, STOPS, SETSCREWS, SETPOINTS)
 BD - AGING/CYCLIC FATIGUE
 BE - DIRTY (DEPOSITS OF EXTRANEIOUS MATERIAL ON OPERATING PARTS)
 BF - BLOCKED/OBSTRUCTED (FLOW OR MECHANICAL MOVEMENT)
 BG - CORROSION-CHEMICAL REACTION-ELECTROCHEMICAL / STRESS AIDED

CAUSE - ADJUSTMENT/HUMAN-RELATED

AA - FOREIGN/WRONG PART, INCLUDES POOR DESIGN AND MISAPPLICATION
 AL - SETPOINT DRIFT
 AM - PREV. REPAIR/INSTALLATION (INADEQUATE, NOT PROPER ACTION)
 AN - INCORRECT PROCEDURE
 BC - OUT OF MECH ADJUST. - NOT DUE TO DAMAGE - LOOSE LOCKNUT
 BH - OUT OF CALIBRATION
 BJ - INCORRECT ACTION - HUMAN ERROR

CAUSE - CONTROLS (ELECTRICAL/ELECTRONIC)

AG - ABNORMAL STRESS (VOLTAGE SPIKES, OSCILLATIONS, ETC.)
 AR - INSULATION BREAKDOWN (SHORTS, ARCS, BURNED WINDINGS)
 AS - SHORTED / GROUNDED CIRCUITS
 AT - OPEN CIRCUIT
 AU - CONTACTS BURNED / PITTED / CORRODED
 AV - CONNECTION DEFECTIVE / LOOSE PARTS
 AW - CIRCUIT DEFECTIVE (UNKNOWN ELECTRONIC FAULTS OR FAILURES)
 AX - BURNED / BURNED OUT (LOCAL COMBUSTION, OVERLOAD, ELECT. FIRE)
 AY - ELECTRICAL OVERLOAD DUE TO UNANTICIPATED HIGH CURRENT
 AZ - MATERIAL DEFECT - FLAW
 BD - AGING/CYCLIC FATIGUE
 BE - DIRTY (DEPOSITS OF EXTRANEIOUS MATERIAL ON OPERATING PARTS)
 BG - CORROSION - CHEMICAL REACTION - ELECTROCHEMICAL OR STRESS AIDED

N/A mjs 10-3-97

REPAIR CODES / CORRECTIVE ACTION

AA - RECALIBRATED / ADJUSTED
 AC - TEMP. MODIFICATION - ACTION TO MAINTAIN FOR INTERIM PERIOD
 AE - MODIFY/SUBSTITUTE - CHNG/ELIMINATE OR REPLACE W/DIFF MODEL
 AG - REPAIR COMPONENT/PART - RESTORE TO ORIGINAL CONFIG. BY CLEAN,
 POLISHING, TIGHTENING, REMOVE/INSERT CIRCUIT CARDS
 AH - REPLACE PARTS - PIECE REPLACED IN KIND, PACKING, SEALS
 AK - REPLACE COMPONENT - ENTIRE COMPONENT REPLACED IN KIND

ACTIVITY PLANNING SHEET

RT NO. 771111 TASK ST

W/O: 970915562 ACT: 01

| | | | | | | |
|--------|-------------------|--------------------|---------|-----|-----|------------|
| VIT IC | RESP D/G ESSE ISI | MANPOWER : 001 SUP | 002 CPF | 000 | 000 | OVERDUE DT |
| | | DURATION : 1.0 | 24.0 | 0.0 | 0.0 | 10/30/97 |

ACT. DESC: REMOVE SNUBBER FOR FUNCTIONAL TESTING, DECON AND TRANSPORT TO THE SNUBBER TEST CAGE. REPLACE SNUBBER AFTER TESTING IS COMPLETE.

HPCI TURBINE OS211 EXHAUST TO PEN P201, HV-F075, V064.

COMPONENT/REG: 1-P-FD-006-H022 COMP TYPE: P SNB PLN JOB: 936359

TURBINE OS211 EXHAUST TO PEN P201;HV-F075,V064;LINE FD-007

MODEL NUMBER : PSA-3

MFGR NAME : PACIFIC SCIENTIFIC CO

WORK STANDARDS : SH.MD-GP, 22-0001
 SCHED START DATE: 09/08/97 DCR# - - - PKG: - - -

REQUESTS / PERMITS

TAGGING REQD : N
 SS PERM REQD : Y HOT WORK : N FIRE: N ANI REQ: Y SECURITY REQ: N
 CONFINED SPACE : N TEMP PUMP: N EMIS: N SCAFFOLD REQ: Y RAD SYS BRECH: N
 RWP REQD/NUMBER: Y / 97 0H 00112 00 DOSE MARG REQ: 320 (MREM) ALARA COD: 0
 G A DOSE RATE : 0.0 (MREM/HR) EST. MANREM: 0.002 RESPR REQ: Y

LOCATION: 4227D TORUS-94' EL. 175 DEGREES AZIMUTH.

DISTANCE FROM FLOOR: 0 ACCESSABILITY:

STATION SERVICES AVAILABLE WITH STATED DISTANCES:

120V: 0 FT. 440V: 0 FT. CA: 0 FT. SA: 0 FT. DM WTR: 0 FT.

WORK IN CONJUNCTION WITH:

M + T E / T O O L S / E Q U I P / L U B E

SNUBBER CART ASS'T HAND TOOLS COME ALONG
 SAFETY BELT FLASHLIGHT CHAIN FALL
 MIRROR RULER

REMARKS

SUPERVISOR: BRAMMEIER+ 3152 R7

PLANNER: BRAMMEIER 3152

INITIATOR:

FORM NO. E530040

PROG PLAN: U23000

| | | |
|---|----------------|------------|
| NUCLEAR DEPARTMENT WORK ACTIVITY SURVEILLANCE TEST | ACT TYPE FW | TASK ST |
|---|----------------|------------|

W/O: 970915562 ACT: 02

SECTION 1 -- TASK DESCRIPTION

ORIGINAL

| | | | |
|------------|-----------|----------------------|---|
| UNIT HC | PRI 01 | RESP D/G ESSE ISI | W/O SUMMARY SNUBBER FUNCTIONAL TESTING |
|------------|-----------|----------------------|---|

FEG/COMP ID: 1-P-FD-006-H022 MUC: C LOC: 4227D SYSTEM: FD

SERIAL NBR:
ACT SUMMARY: FUNCTIONAL TEST SNUBBER
ACT DESC-1: PERFORM FUNCTIONAL TEST OF SNUBBER IN THE SNUBBER TEST LAB, TURBINE BUILDING, 137' ELEVATION.

SECTION 2 -- PLANNING INFORMATION

| | | | | |
|----------------------------------|--------------|---------------|------------------|------------------|
| PLANNER: BRAMMEIER 3152 | QAR | SAFETY CLASS/ | SEISMIC | EQ |
| SUPERVISOR: BRAMMEIER 3152 R7 | Q | QGC B | 1 | M |
| DR# - | DCR# - 00000 | PKG 00000 | RC#: 0144 | AUTH NO: |
| WORK STANDARDS: | (HP W/STD): | | ACCT NO: E530040 | PRG PLN: U23000 |
| TEMPORARY MODIFICATION # 00 0000 | | | LOC: 1616 | PLN JOB#: 936360 |
| CODE JOB PKG | | | | |

SECTION 3 -- SCHEDULING INFORMATION

| | | | | | |
|--------------------------------------|------------------------|--------------------|-----|-----|-----|
| SCHED START DATE: 09/08/97 | OVERDUE DATE: 10/30/97 | ESTIMATED MANPOWER | | | |
| SYS OTG: LCO NO: R7 - 3900 R7 - 5300 | | MAN | | EST | |
| TAG NBR: | | COD NBR | DUR | EST | RCA |
| SCHEDULER: | | SUP 001 | 1.0 | 1.0 | 1.0 |
| SCHEDULER COMMENTS: | | CQC 002 | 1.0 | 2.0 | 2.0 |
| | | CPF 001 | 1.0 | 1.0 | 1.0 |
| | | 000 | 0.0 | 0.0 | 0.0 |
| | | TOTAL HRS: | 1.0 | | |

REFUELING OUTAGE

NOTIFY NCS PRIOR TO STARTING WORK

SECTION 4 -- PERMISSION TO BEGIN

S/S PERMISSION TO BEGIN WORK: N/A DATE: _____ TIME: _____

TAGGING REQUIRED: N 09-04-97 P12:34 IN

SECTION 5 -- CLOSE OUT

| | | | |
|---|------------------------|-------------------------|---------------------------------|
| PERSON COMPLETING WORK <u>Benny Keel</u> | BADGE <u>7-320</u> | DATE <u>10/4/97</u> | ACTUAL MANOURS |
| WORK SUPERVISOR <u>WAS</u> | BADGE <u>02-021</u> | DATE <u>11/13/97</u> | MANPOWER: <u>SUP</u> <u>CQC</u> |
| PEAT WORK { <u>N</u> } (Y/N) | | | MEN REQ: <u>1</u> <u>1</u> |
| | | | DURATION: <u>1.0</u> <u>1.0</u> |

EMIS TAG# _____

S/S SIGNOFF: _____ N/A _____ DATE: / /

ACTIVITY CLOSEOUT SHEET

RT NO.
771111

TASK
ST

W/O: 970915562 ACT: 02

PAGE 2 OF 2

M+TE
EQUIPMENT
USED/NEEDED

MODEL 150 TEST BENCH
S2115 CAL DUE 8/17/98

DEFICIENCY REPORTS INITIATED

~~N/A~~

COMPONENT SERIAL #

SERIAL # UPDATE

MRULE SSC Y FAILED PARTS

DESCRIPTION OF WORK PERFORMED: Functional Test SAT BR 10-4-97

AS FOUND CONDITION:

REPAIR ACTIONS TAKEN:

FAILURE CAUSE:

N/A

PMT PERFORMED:

CAUSE - MECHANICAL

AB - FOREIGN/INCORRECT MATERIAL (WATER IN OIL)
 AC - PARTICULATE CONTAMINATION (BUILDUP OF SOLIDS IN FLUID SYS.)
 AD - NORMAL / ABNORMAL WEAR
 AE - PROBLEM LUBRICATION (LACK OF / INADEQUATE)
 AF - WELD RELATED (FRACTURE, CRACK, HAZARD FAILURE)
 AG - ABNORMAL STRESS (LOAD, VIBRATION, TEMP, PRESSURE, FLOW)
 AV - LOOSE PARTS, CONNECTIONS, OR FASTENERS
 AZ - MATERIAL DEFECTIVE (FLAW)
 BB - MECHANICAL DAMAGE (UNKNOWN MECHANICAL FAULTS OR FAILURES)
 BC - OUT OF ADJUSTMENT (LOOSE PARTS, STOPS, SETSCREWS, SETPOINTS)
 BD - AGING/CYCLIC FATIGUE
 BE - DIRTY (DEPOSITS OF EXTRANEIOUS MATERIAL ON OPERATING PARTS)
 BF - BLOCKED/OBSTRUCTED (FLOW OR MECHANICAL MOVEMENT)
 BG - CORROSION-CHEMICAL REACTION-ELECTROCHEMICAL / STRESS AIDED

CAUSE - ADJUSTMENT/HUMAN-RELATED

AA - FOREIGN/WRONG PART, INCLUDES POOR DESIGN AND MISAPPLICATION
 AL - SETPOINT DRIFT
 AM - PREV. REPAIR/INSTALLATION (INADEQUATE, NOT PROPER ACTION)
 AN - INCORRECT PROCEDURE
 BC - OUT OF MECH ADJUST. - NOT DUE TO DAMAGE - LOOSE LOCKNUT
 BH - OUT OF CALIBRATION
 BJ - INCORRECT ACTION - HUMAN ERROR

CAUSE - CONTROLS (ELECTRICAL/ELECTRONIC) *NA*

AG - ABNORMAL STRESS (VOLTAGE SPIKES, OSCILLATIONS, ETC.)
 AR - INSULATION BREAKDOWN (SHORTS, ARCS, BURNED WINDINGS)
 AS - SHORTED / GROUNDED CIRCUITS
 AT - OPEN CIRCUIT
 AU - CONTACTS BURNED / PITTED / CORRODED
 AV - CONNECTION DEFECTIVE // LOOSE PARTS
 AW - CIRCUIT DEFECTIVE (UNKNOWN ELECTRONIC FAULTS OR FAILURES)
 AX - BURNED / BURNED OFF (LOCAL COMBUSTION, OVERLOAD, ELECT. FIRE)
 AY - ELECTRICAL OVERLOAD DUE TO UNANTICIPATED HIGH CURRENT
 AZ - MATERIAL DEFECT - FLAW
 BD - AGING/CYCLIC FATIGUE
 BE - DIRTY (DEPOSITS OF EXTRANEIOUS MATERIAL ON OPERATING PARTS)
 BG - CORROSION - CHEMICAL REACTION - ELECTROCHEMICAL OR STRESS AIDED

REPAIR CODES / CORRECTIVE ACTION

AA - RECALIBRATED / ADJUSTED
 AC - TEMP. MODIFICATION - ACTION TO MAINTAIN FOR INTERIM PERIOD
 AE - MODIFY/SUBSTITUTE - CHNG/ELIMINATE OR REPLACE W/DIFF MODEL
 AG - REPAIR COMPONENT/PART - RESTORE TO ORIGINAL CONFIG. BY CLEAN,
 POLISHING, TIGHTENING, REMOVE/INSERT CIRCUIT CARDS
 AH - REPLACE PARTS - PIECE REPLACED IN KIND, PACKING, SEALS
 AK - REPLACE COMPONENT - ENTIRE COMPONENT REPLACED IN KIND

ACTIVITY PLANNING SHEET

RT NO.
771111

TASK
ST

W/O: 970915562 ACT: 02

| | | | | | | |
|-----------|----------------------|--------------------------------------|----------------|----------------|------------|------------------------|
| NIT IC | RESP D/G ESSE ISI | MANPOWER : 001 SUP DURATION : 1.0 | 002 CQC 1.0 | 001 CPF 1.0 | 000 0.0 | OVERDUE DT 10/30/97 |
|-----------|----------------------|--------------------------------------|----------------|----------------|------------|------------------------|

ACT. DESC: PERFORM FUNCTIONAL TEST OF SNUBBER IN THE SNUBBER TEST LAB, TURBINE BUILDING, 137' ELEVATION.

COMPONENT/FEG: 1-P-FD-006-H022 COMP TYPE: P SNB PLN JOB: 936360
 TURBINE OS211 EXHAUST TO PEN P201;HV-F075,V064;LINE FD-007
 MODEL NUMBER : PSA-3
 MFR NAME : PACIFIC SCIENTIFIC CO

WORK STANDARDS :
 SCHED START DATE: 09/08/97 DCR# - - PKG: - -

R E Q U E S T S / P E R M I T S

TAGGING REQD : N
 SS PERM REQD : N HOT WORK : N FIRE: N ANI REQ: N SECURITY REQ: N
 CONFINED SPACE : N TEMP PUMP: N EMIS: N SCAFFOLD REQ: N RAD SYS BRECH: N
 RWP REQD/NUMBER: Y / 97 0H 00007 00 DOSE MARG REQ: 124 (MREM) ALARA COD: 1
 G A DOSE RATE : 2.0 (MREM/HR) EST. MANREM: 0.000 RESPR REQ: N

LOCATION: 4227D TORUS-94' EL. 175 DEGREES AZIMUTH.
 DISTANCE FROM FLOOR: 0 ACCESSABILITY:

STATION SERVICES AVAILABLE WITH STATED DISTANCES:
 120V: 0 FT. 440V: 0 FT. CA: 0 FT. SA: 0 FT. DM WTR: 0 FT.

WORK IN CONJUNCTION WITH:

M + T E / T O O L S / E Q U I P / L U B E

SNUBBER TEST MACHINE ASS'T TOOLS CHAIN HOIST

R E M A R K S

SUPERVISOR: BRAMMEIER 3152 R7 PLANNER: BRAMMEIER 3152
 INITIATOR:
 PROG PLAN: U23000

NUCLEAR DEPARTMENT WORK ORDER
SURVEILLANCE TEST

TASK
ST

W/O: 970915562 ACT: 02

WORK START
INIT/DATE

INFORMATION ONLY

WORK COMPL
INIT/DATE

ACT: 01 SUMMARY: REMOVE-REPLACE SNUBBER FOR TESTING
RESP D/G: ESSE ISI UNIT-CMPNT ID: HC 1-P-FD-006-H022
RESP SUPV: BRAMMEIER+ 3152 R7 START DATE: 08SEP97 ACT TYPE: FW

ACT: 02 SUMMARY: FUNCTIONAL TEST SNUBBER
RESP D/G: ESSE ISI UNIT-CMPNT ID: HC 1-P-FD-006-H022
RESP SUPV: BRAMMEIER 3152 R7 START DATE: 08SEP97 ACT TYPE: FW

ACT: 03 SUMMARY: AS-FOUND AND AS-LEFT VISUAL EXAMINATION
RESP D/G: ESSE ISI UNIT-CMPNT ID: HC 1-P-FD-006-H022
RESP SUPV: BRAMMEIER 3152 R7 START DATE: 08SEP97 ACT TYPE: FW

SYSTEM CODE - FD

NOTE

CHECK SEARCH "23" PRIOR TO
INITIATING RETEST ACTIVITIES

| | | | |
|--|----------|----------------|------------|
| NUCLEAR DEPARTMENT WOR. SURVEILLANCE TEST | ACTIVITY | ACT TYPE FW | TASK ST |
|--|----------|----------------|------------|

W/O: 970915562 ACT: 03

SECTION 1 -- TASK DESCRIPTION

ORIGINAL

| | | | |
|------------|-----------|----------------------|---|
| JNIT HC | PRI 01 | RESP D/G ESSE ISI | W/O SUMMARY SNUBBER FUNCTIONAL TESTING |
|------------|-----------|----------------------|---|

REG/COMP ID: 1-P-FD-006-H022 MUC: C LOC: 4227D SYSTEM: FD

SERIAL NBR:
ACT SUMMARY: AS-FOUND AND AS-LEFT VISUAL EXAMINATION
ACT DESC-1: PERFORM A VISUAL EXAMINATION OF SNUBBER BEFORE REMOVAL AND AFTER REINSTALLATION.

SECTION 2 -- PLANNING INFORMATION

| | | | | |
|----------------------------------|--------------|---------------|------------------|----|
| PLANNER: BRAMMEIER 3152 | QAR | SAFETY CLASS/ | SEISMIC | EQ |
| SUPERVISOR: BRAMMEIER 3152 R7 | Q | QGC B | 1 | M |
| DR# - | DCR# - 00000 | PKG 00000 | RC#: 0144 | |
| | | | AUTH NO: | |
| | | | ACCT NO: E530040 | |
| WORK STANDARDS: | | | PRG PLN: U23000 | |
| | (HP W/STD): | | LOC: 1616 | |
| TEMPORARY MODIFICATION # 00 0000 | | | PLN JOB#: 936361 | |
| CODE JOB PKG | | | | |

SECTION 3 -- SCHEDULING INFORMATION

| | | | | | |
|--------------------------------------|------------------------|--------------------|-----|-----|-----|
| SCHED START DATE: 09/08/97 | OVERDUE DATE: 10/30/97 | ESTIMATED MANPOWER | | | |
| SYS OTG: LCO NO: R7 - 3900 R7 - 5300 | | MAN | | EST | EST |
| TAG NBR: | | COD NBR | DUR | EST | RCA |
| SCHEDULER: | | SUP 001 | 1.0 | 1.0 | 1.0 |
| SCHEDULER COMMENTS: | REFUELING | CQC 001 | 1.0 | 1.0 | 1.0 |
| | | 000 | 0.0 | 0.0 | 0.0 |
| | | 000 | 0.0 | 0.0 | 0.0 |
| | | TOTAL HRS: | 1.0 | | |

NOTIFYING PRIOR TO STARTING WORK

OUTAGE

SECTION 4 -- PERMISSION TO BEGIN

S/S PERMISSION TO BEGIN WORK: N/A DATE: 09/11/97 TIME: 12:34 IN

TAGGING REQUIRED: N

SECTION 5 -- CLOSE OUT

| PERSON COMPLETING WORK | BADGE | DATE | ACTUAL MANHOURS | |
|--------------------------------|--------------|-----------------|--------------------------|--|
| <u>WPK</u> | <u>02-02</u> | <u>11/13/97</u> | MANPOWER: <u>SUP CQC</u> | |
| WORK SUPERVISOR | BADGE | DATE | MEN REQ: <u>1 1</u> | |
| <u>WPK</u> | <u>02-02</u> | <u>11/13/97</u> | DURATION: <u>1.0 1.0</u> | |
| REPEAT WORK { <u>N</u> } (Y/N) | | | | |

EMIS TAG#

S/S SIGNOFF: N/A DATE: 1/1

ACTIVITY CLOSEOUT SHEET

RT NO.
771111

TASK
ST

1 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

W/O: 970915562 ACT: 03

PAGE 2 OF 2

M+TE
EQUIPMENT
USED/NEEDED

DEFICIENCY REPORTS INITIATED

~~NIA~~

COMPONENT SERIAL #

SERIAL # UPDATE

~~/ /~~

MRULE SSC Y FAILED PARTS

DESCRIPTION OF WORK PERFORMED:

PRE & POST VTS Complete, SAT.

AS FOUND CONDITION:

REPAIR ACTIONS TAKEN:

FAILURE CAUSE:

~~NIA~~

PMT PERFORMED:

CAUSE - MECHANICAL

AB - FOREIGN/INCORRECT MATERIAL (WATER IN OIL)
 AC - PARTICULATE CONTAMINATION--(BUILDUP OF SOLIDS IN FLUID SYS.)
 AD - NORMAL / ABNORMAL WEAR
 AE - PROBLEM LUBRICATION (LACK OF / INADEQUATE)
 AF - WELD RELATED (FRACTURE, CRACK, HAZARD FAILURE)
 AG - ABNORMAL STRESS (LOAD, VIBRATION, TEMP, PRESSURE, FLOW)
 AV - LOOSE PARTS, CONNECTIONS, OR FASTENERS
 AZ - MATERIAL DEFECTIVE (FLAW)
 BB - MECHANICAL DAMAGE (UNKNOWN MECHANICAL FAULTS OR FAILURES)
 BC - OUT OF ADJUSTMENT (LOOSE PARTS, STOPS, SETSCREWS, SETPOINTS)
 BD - AGING/CYCLIC FATIGUE
 BE - DIRTY (DEPOSITS OF EXTRANEIOUS MATERIAL ON OPERATING PARTS)
 BF - BLOCKED/OBSTRUCTED (FLOW OR MECHANICAL MOVEMENT)
 BG - CORROSION-CHEMICAL REACTION-ELECTROCHEMICAL / STRESS AIDED

CAUSE - ADJUSTMENT/HUMAN-RELATED

AA - FOREIGN/WRONG PART, INCLUDES POOR DESIGN AND MISAPPLICATION
 AL - SETPOINT DRIFT
 AM - PREV. REPAIR/INSTALLATION (INADEQUATE, NOT PROPER ACTION)
 AN - INCORRECT PROCEDURE
 BC - OUT OF MECH ADJUST. - NOT DUE TO DAMAGE - LOOSE LOCKNUT
 BH - OUT OF CALIBRATION
 BJ - INCORRECT ACTION - HUMAN ERROR

CAUSE - CONTROLS (ELECTRICAL/ELECTRONIC)

AG - ABNORMAL STRESS (VOLTAGE SPIKES, OSCILLATIONS, ETC.)
 AR - INSULATION BREAKDOWN (SHORTS, ARCS, BURNED WINDINGS)
 AS - SHORTED / GROUNDED CIRCUITS
 AT - OPEN CIRCUIT
 AU - CONTACTS BURNED / PITTED / CORRODED
 AV - CONNECTION DEFECTIVE / LOOSE PARTS
 AW - CIRCUIT DEFECTIVE (UNKNOWN ELECTRONIC FAULTS OR FAILURES)
 AX - BURNED / BURNED OUT (LOCAL COMBUSTION, OVERLOAD, ELECT. FIRE)
 AY - ELECTRICAL OVERLOAD DUE TO UNANTICIPATED HIGH CURRENT
 AZ - MATERIAL DEFECT - FLAW
 BD - AGING/CYCLIC FATIGUE
 BE - DIRTY (DEPOSITS OF EXTRANEIOUS MATERIAL ON OPERATING PARTS)
 BG - CORROSION - CHEMICAL REACTION - ELECTROCHEMICAL OR STRESS AIDED

REPAIR CODES / CORRECTIVE ACTION

AA - RECALIBRATED / ADJUSTED
 AC - TEMP. MODIFICATION - ACTION TO MAINTAIN FOR INTERIM PERIOD
 AE - MODIFY/SUBSTITUTE - CHNG/ELIMINATE OR REPLACE W/DIFF MODEL
 AG - REPAIR COMPONENT/PART - RESTORE TO ORIGINAL CONFIG. BY CLEAN,
 POLISHING, TIGHTENING, REMOVE/INSERT CIRCUIT CARDS
 AH - REPLACE PARTS - PIECE REPLACED IN KIND, PACKING, SEALS
 AK - REPLACE COMPONENT - ENTIRE COMPONENT REPLACED IN KIND

ACTIVITY PLANNING SHEET

RT NO.
771111TASK
ST

W/O: 970915562 ACT: 03

| | | | | | | |
|------|----------|--------------------|---------|-----|-----|------------|
| UNIT | RESP D/G | MANPOWER : 001 SUP | 001 CQC | 000 | 000 | OVERDUE DT |
| IC | ESSE ISI | DURATION : 1.0 | 1.0 | 0.0 | 0.0 | 10/30/97 |

ACT. DESC: PERFORM A VISUAL EXAMINATION OF SNUBBER BEFORE REMOVAL AND AFTER REINSTALLATION.

COMPONENT/FEG: 1-P-FD-006-H022

COMP TYPE: P SNB

PLN JOB: 936361

TURBINE OS211 EXHAUST TO PEN P201;HV-F075,V064;LINE FD-007

MODEL NUMBER : PSA-3

MFGR NAME : PACIFIC SCIENTIFIC CO

WORK STANDARDS :

| | | | | |
|----------------------------|------|---|---|------|
| SCHED START DATE: 09/08/97 | DCR# | - | - | PKG: |
| | | - | - | |
| | | - | - | |

R E Q U E S T S / P E R M I T S

TAGGING REQD : N
 SS PERM REQD : N HOT WORK : N FIRE: N ANI REQ: N SECURITY REQ: N
 CONFINED SPACE : N TEMP PUMP: N EMIS: N SCAFFOLD REQ: N RAD SYS BRECH: N
 RWP REQD/NUMBER: Y / 97 0H 00112 00 DOSE MARG REQ: 320 (MREM) ALARA COD: 0
 G A DOSE RATE : 0.0 (MREM/HR) EST. MANREM: 0.001 RESPR REQ: Y

LOCATION: 4227D TORUS-94' EL. 175 DEGREES AZIMUTH.

DISTANCE FROM FLOOR: 0 ACCESSABILITY:

STATION SERVICES AVAILABLE WITH STATED DISTANCES:

120V: 0 FT. 440V: 0 FT. CA: 0 FT. SA: 0 FT. DM WTR: 0 FT.

WORK IN CONJUNCTION WITH:

M + T E / T O O L S / E Q U I P / L U B E

FLASHLIGHT
RULERMIRROR
SAFETY BELT

DATA COLLECTION UNIT

R E M A R K S

SUPERVISOR: BRAMMEIER 3152 R7

PLANNER: BRAMMEIER 3152

INITIATOR:

PROG PLAN: U23000

ACCT NO: F530040

NUCLEAR DEPARTMENT WORK ORDER
SURVEILLANCE TEST

TASK
ST

W/O: 970915562 ACT: 03

WORK START
INIT/DATE

INFORMATION ONLY

WORK COMPL
INIT/DATE

ACT: 01 SUMMARY: REMOVE-REPLACE SNUBBER FOR TESTING
RESP D/G: ESSE ISI UNIT-CMPNT ID: HC 1-P-FD-006-H022
RESP SUPV: BRAMMEIER+ 3152 R7 START DATE: 08SEP97 ACT TYPE: FW

ACT: 02 SUMMARY: FUNCTIONAL TEST SNUBBER
RESP D/G: ESSE ISI UNIT-CMPNT ID: HC 1-P-FD-006-H022
RESP SUPV: BRAMMEIER 3152 R7 START DATE: 08SEP97 ACT TYPE: FW

ACT: 03 SUMMARY: AS-FOUND AND AS-LEFT VISUAL EXAMINATION
RESP D/G: ESSE ISI UNIT-CMPNT ID: HC 1-P-FD-006-H022
RESP SUPV: BRAMMEIER 3152 R7 START DATE: 08SEP97 ACT TYPE: FW

SYSTEM CODE - FD

NOTE

CHECK SEARCH "23" PRIOR TO
INITIATING RETEST ACTIVITIES

REFERENCE LIST

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

W/O: 00970915562 ACT: 01

W/O SUMMARY: SNUBBER FUNCTIONAL TESTING

| CLASS | MANUAL/DRAWING NUMBER | SEQUENCE |
|-------|-----------------------|----------|
| PROC | SH.MD-GP.ZZ-0001(Q) | |
| DWG | I-P-FD-006-H022 | |
| DWG | I-P-FD-01 | |
| DWG | M-55-1 | |

REFERENCE LIST

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

W/O: 00970915562 ACT: 02

W/O SUMMARY: SNUBBER FUNCTIONAL TESTING

| CLASS | MANUAL/DRAWING NUMBER | SEQUENCE |
|-------|-----------------------|----------|
| PROC | SH.RA-ST.ZZ-0105(Q) | |
| DWG | 1-P-FD-006-H022 | |
| FD | H-1-VARX-MFD-0501-2 | |
| DWG | 1-P-FD-01 | |
| DWG | M-55-1 | |

REFERENCE LIST

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

W/O: 00970915562 ACT: 03

W/O SUMMARY: SNUBBER FUNCTIONAL TESTING

| CLASS | MANUAL/DRAWING NUMBER | SEQUENCE |
|-------|-----------------------|----------|
| PROC | SH.RA-ST.ZZ-0105(Q) | |
| DWG | 1-P-FD-006-H022 | |
| DWG | 1-P-FD-01 | |
| DWG | M-55-1 | |

HOPE CREEK VISUAL EXAMINATION DATA SHEET

EXAM NO. 1111 AS FOUND AS LEFT X W.O. NO. 970915 ISSUED 11/13/97
CYCLE NO: RFO7 SERIAL NO: 20644 COMP # M-1111 MODEL: PSA 3

BASIC DATA SECTION

HANGER NO: 1-P-FD-006-H022 TEMPERATURE: 77
ROOM/O-FIELD: 4102/B-0 RADIATION LEVEL: 5
ROW/COL: 4'S 18.9 /19'W U ACCESS DIFFICULTY: 5
ELEVATION: 94

EXAMINATION SECTION

FREE OF DEBRIS ? : Y * POSITION SET PER DETAIL: 2 1/2
FREE OF HEAVY RUST ? : Y POSITION SET AS FOUND: 5 1/2
FREE OF DISTORTION ? : Y * MOVEMENT PER DETAIL: +1/16
FREE OF CRACKS ? : Y FLUID LEVEL AS FOUND: 0/4
(Hydraulic snubbers only)
FASTENERS SAT ? : Y * NOTE: Position set and movement per
detail will be entered during level II
ABLE TO ROTATE SNUBBER : Y review and results evaluation.

COMMENTS: LISEGA 3052 - 61380/37

EXAMINER , NAME : DELIA LEVEL: II CERT. DATE 11/20/95
SIGNATURE OF EXAMINER: [Signature] EXAM. DATE 11/13/97

EXAMINATION RESULTS EVALUATION AND REVIEW

POSITION SETTING SAT ? : Y FLUID LEVEL SAT ? : N
RESULTS SAT / UNSAT ? : S NOTIFIED SR. ISI SUPR. IF UNSAT ? : N
ISI SUPERVISOR: [Signature] LEVEL: II DATE: 11/13/97
DR. NO. ISSUED: WO. NO. ISSUED:
ANII REVIEW: DATE: / /
QA / QC REVIEW: DATE: / /
: NONE

Snubber Test Summary

Identification Information:

Exam Number: 1111
Model Number: PSA-3
Serial Number: 20644
Rated Load: 6000

Customer: PSE&G

Mark Number: 1-P-FD-006-H022
Component Number: M-1111
Work Request Number:
Test Procedure: SH.RA-ST.ZZ-0105
Cold Set: 0

Test Information:

| <u>Test Sequence: AS-FOUND</u> | <u>Criteria</u> | <u>Tension</u> | <u>Compression</u> |
|--------------------------------|-----------------|----------------|--------------------|
| Initial Running Drag (AVG) | < 120.0 LBF | 20.54 | 31.19 |
| Initial Running Drag (PEAK) | < 300.0 LBF | 45.72 | 71.08 |
| Activation | < 0.020 G's | 0.0040 | 0.0049 |
| Final Running Drag (AVG) | < 120.0 LBF | 21.67 | 28.81 |
| Final Running Drag (PEAK) | < 300.0 LBF | 59.89 | 75.39 |

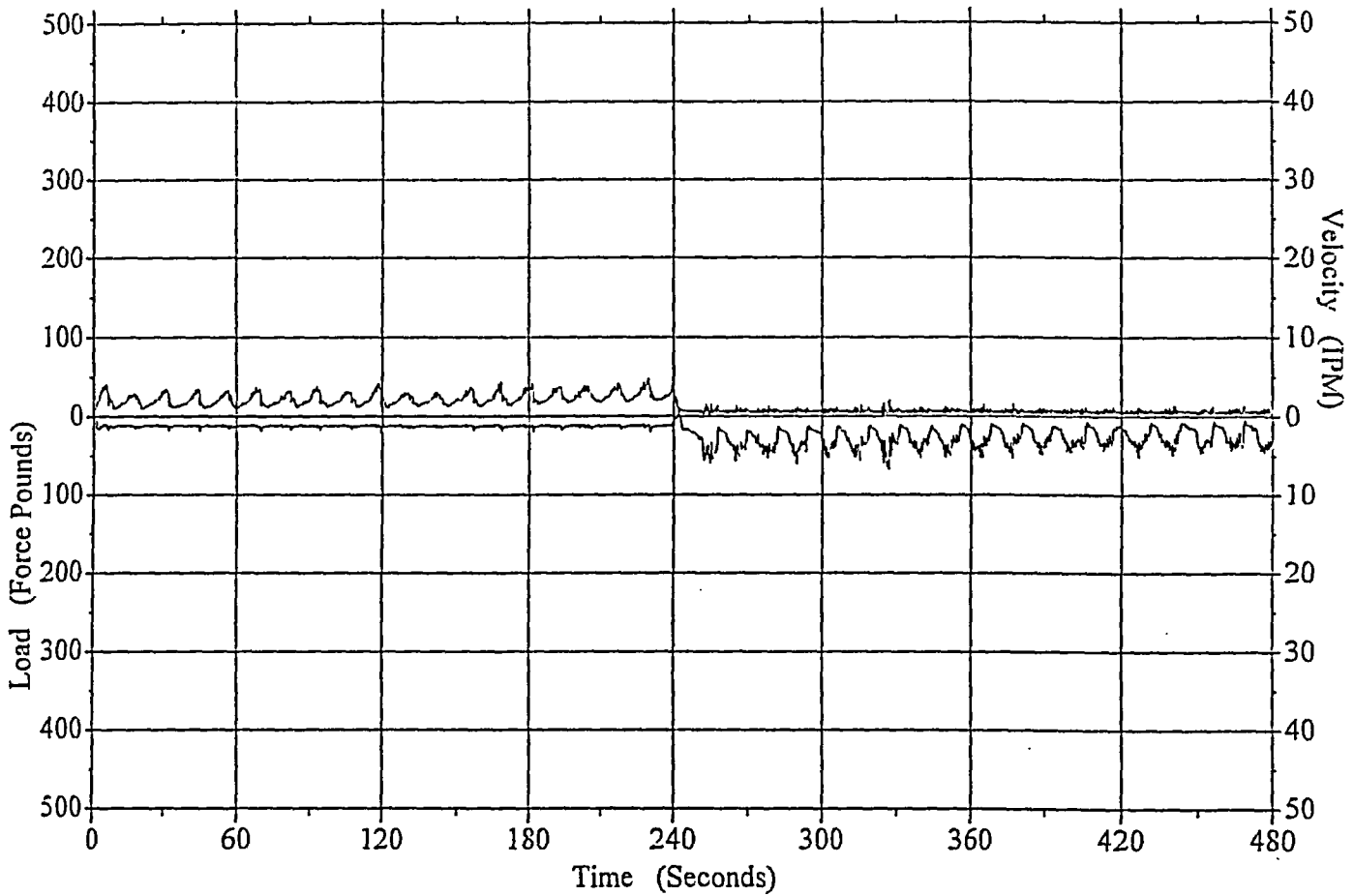
Remarks:

SAT
Results

WRS 11/13/97
Customer Review (If Required)

Benny Reid
Machine Operator or Project Engineer

Running Drag Test



***** Running Drag Test Results *****

Wyle Model 150 / S.N. 115 - Operator: BENNY REID

Saturday, October 04, 1997 14:47:23

B. Reid
10-4-97

Examination #: 1111

Mark #: 1-P-FD-006-H022

Component #: M-1111

Snubber Ser. #: 20644

Snubber Type: PSA-3

Rated Load: 6000

Operator Comment: As Found Initial Running Drag Test

Date of Test: Oct 04, 97

Work Request #:

Cold Set: 0.000

Service Temp: 0.0

Ambient Temp: 0.0

Average Drag Force Experienced During Run (Tension) = 20.54 lbs. (0.34%)

Peak Drag Force Experienced During Run (Tension) = 45.72 lbs. (0.76%)

Average Drag Force Experienced During Run (Compression) = 31.19 lbs. (0.52%)

Peak Drag Force Experienced During Run (Compression) = 71.08 lbs. (1.18%)

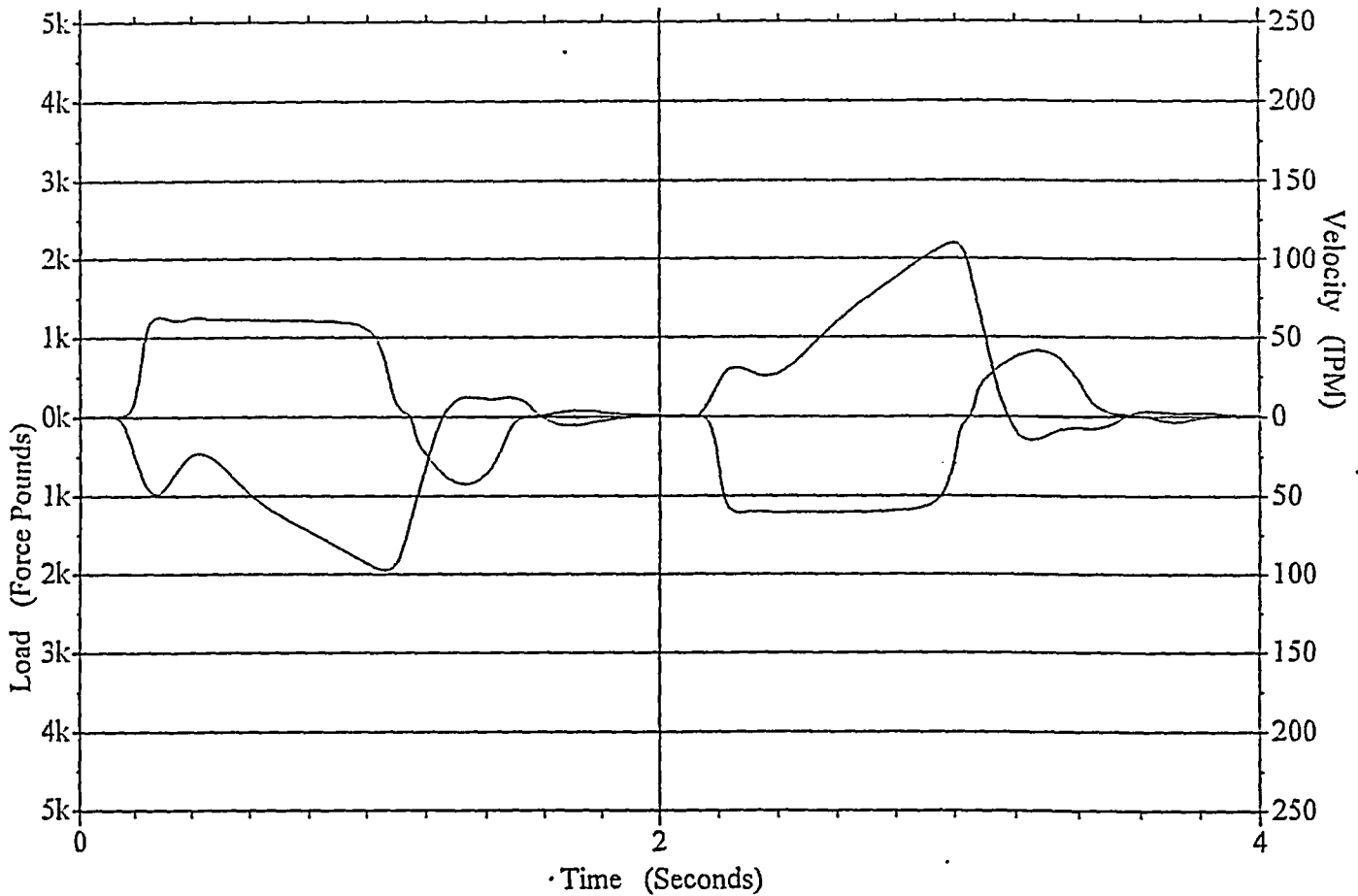
Acceptable Tension Average Drag Force. (lb < 120.00)

Acceptable Tension Peak Drag Force. (lb < 300.00)

Acceptable Compression Average Drag Force. (lb < 120.00)

Acceptable Compression Peak Drag Force. (lb < 300.00)

Functional Test



***** Functional Test Results *****

Wyle Model 150 / S.N. 115 - Operator: BENNY REID

Saturday, October 04, 1997 14:48:14

B. Reid
10-4-97

Examination #: 1111

Mark #: 1-P-FD-006-H022

Component #: M-1111

Snubber Ser. #: 20644

Snubber Type: PSA-3

Rated Load: 6000

Operator Comment: As Found Functional Test

Date of Test: Oct 04, 97

Work Request #:

Cold Set: 0.000

Service Temp: 0.0

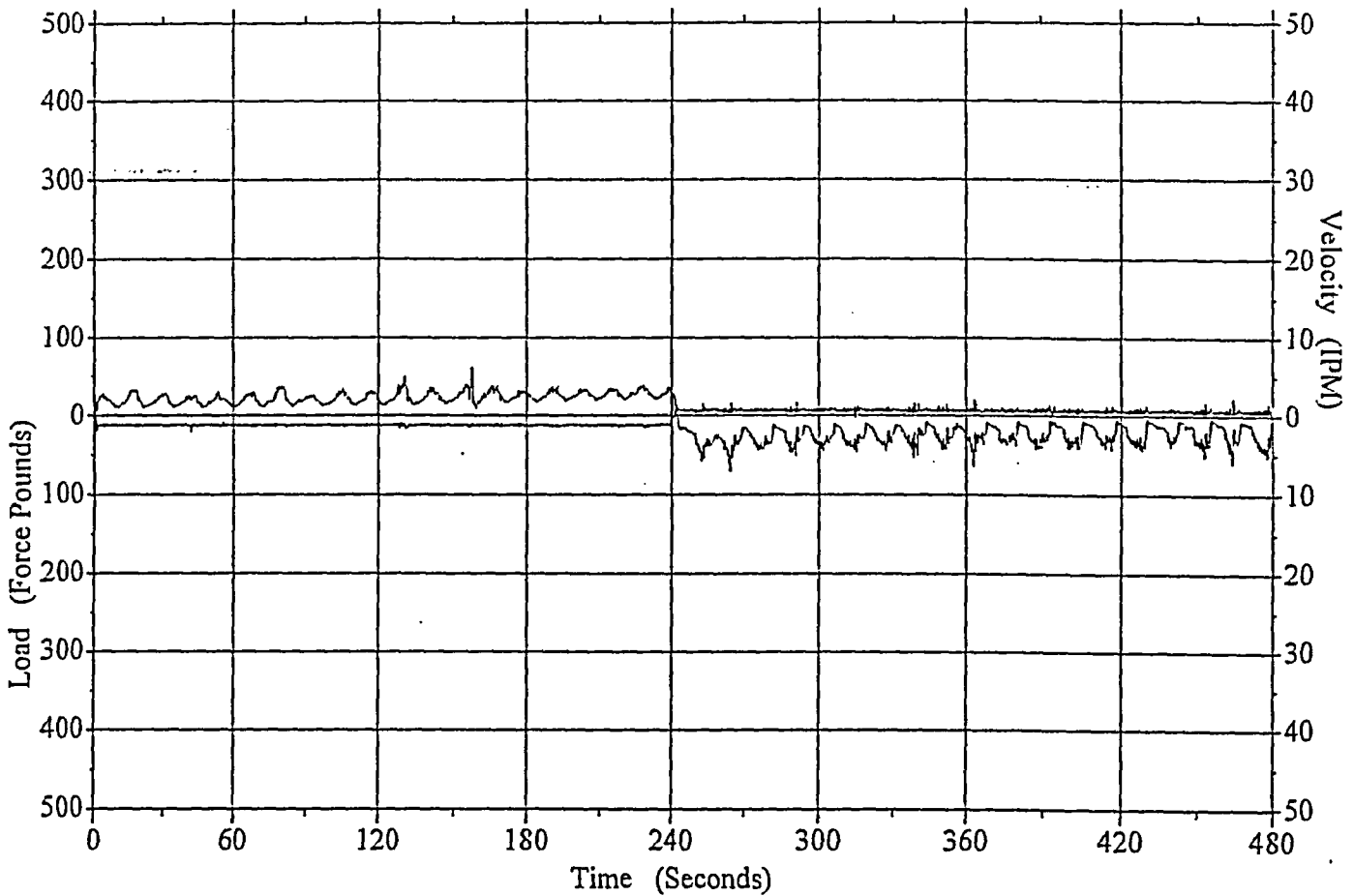
Ambient Temp: 0.0

- Limiting Acceleration (Tension) = 0.0040 g's.
- Maximum Load Achieved (Tension) = 1246.00 lbs. (20.77% of rated load)
- Limiting Acceleration (Compression) = 0.0049 g's.
- Maximum Load Achieved (Compression) = 1224.40 lbs. (20.41% of rated load)

Acceptable Tension Acceleration. (g's < 0.0200)

Acceptable Compression Acceleration. (g's < 0.0200)

Running Drag Test



***** Running Drag Test Results *****

Wyle Model 150 / S.N. 115 - Operator: BENNY REID
 Saturday, October 04, 1997 14:57:01

B. Reid
 10-4-97

Examination #: 1111

Mark #: 1-P-FD-006-H022

Component #: M-1111

Snubber Ser. #: 20644

Snubber Type: PSA-3

Rated Load: 6000

Operator Comment: As Found Final Running Drag Test

Date of Test: Oct 04, 97

Work Request #:

Cold Set: 0.000

Service Temp: 0.0

Ambient Temp: 0.0

Average Drag Force Experienced During Run (Tension) = 21.67 lbs. (0.36%)

Peak Drag Force Experienced During Run (Tension) = 59.89 lbs. (1.00%)

Average Drag Force Experienced During Run (Compression) = 28.81 lbs. (0.48%)

Peak Drag Force Experienced During Run (Compression) = 75.39 lbs. (1.26%)

Acceptable Tension Average Drag Force. (lb < 120.00)

Acceptable Tension Peak Drag Force. (lb < 300.00)

Acceptable Compression Average Drag Force. (lb < 120.00)

Acceptable Compression Peak Drag Force. (lb < 300.00)

HOPE CREEK VISUAL EXAMINATION DATA SHEET

KAM NO. 1111 AS FOUND X AS LEFT W.O. NO. 970915562 ISSUED 10/02/97

CYCLE NO: RFU ? SERIAL NO: 20644 COMP # M-1111 MODEL: PSA 3

BASIC DATA SECTION

ANGER NO: 1-P-FD-006-H022 TEMPERATURE: 77
ROOM/Q-FIELD: 4102/B-0 RADIATION LEVEL: 5
ROW/COL: 4'S 18.9 /19'W U ACCESS DIFFICULTY: 5
ELEVATION: 94

EXAMINATION SECTION

FREE OF DEBRIS ? : Y * POSITION SET PER DETAIL: 2 1/2
FREE OF HEAVY RUST ? : Y POSITION SET AS FOUND: 2 7/8
FREE OF DISTORTION ? : Y * MOVEMENT PER DETAIL: +1/16
FREE OF CRACKS ? : Y FLUID LEVEL AS FOUND: 0/4
(Hydraulic snubbers only)
FASTENERS SAT ? : Y * NOTE: Position set and movement per
detail will be entered during level II
ABLE TO ROTATE SNUBBER : Y review and results evaluation.

COMMENTS: NONE

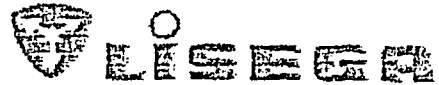
EXAMINER , NAME : J. RUIZ LEVEL: IS CERT. DATE 9 /15/97
SIGNATURE OF EXAMINER: [Signature] EXAM. DATE 10/02/97

EXAMINATION RESULTS EVALUATION AND REVIEW

POSITION SETTING SAT ? : Y FLUID LEVEL SAT ? : N
RESULTS SAT / UNSAT ? : S NOTIFIED SR. ISI SUPR. IF UNSAT ? : N
ISI SUPERVISOR: [Signature] LEVEL: II DATE: 10/02/97
DR. NO. ISSUED: WO. NO. ISSUED:
ANII REVIEW: DATE: / /
QA / QC REVIEW: DATE: / /

COMMENTS: NONE

FACSIMILE-MESSAGE



LISEGA Inc
375 Liseqa Boulevard
Newport, TN 37821

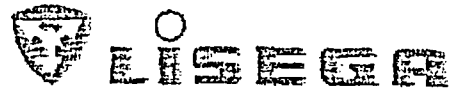
To : B. BRAMMETTER From : G. NASON
Company : PSETG Department :
Phone No. : Phone No. : 423-625-2000
Fax No. : 609-339-3635 Fax No. : 423-625-9009
Page : 1 of 3 Date : 11/10/97

Subject:

Dear

BILL, PLEASE SEE
ATTACHED

G



MODIFICATION PROCEDURE

LISEGA SERIES 30 SNUBBERS

Part 305253RE6

- A. Measure the total snubber pin to pin dimension including the preset dimension. Determine the amount of additional length required to fit the actual installed pin to pin requirement. Cut a piece of 3.25" diameter (minimum), SA35 round bar for the extra length required.
- B. Remove the extension piece from the snubber. Remove the threaded rod end from the extension piece.
- C. Cut the extension in the central area of the pipe. Avoid making cuts within eight inches of either end. Prepare the surface area of the cut pipe to accept a fillet weld.
- D. Insert the round bar between the cut pipe sections. Center the round bar on both cut ends of the pipe. Perform a 3/8" all around fillet weld connecting the round bar to the cut pipe. Be sure that the pipe alignment is maintained within 2° of the pipe center line axis.
- E. Finish the weld and paint the new section if required.
- F. Re-assemble the extension to the snubber, and the threaded rod end to the extension. Before assembling any threaded items, check all threaded surfaces, both male and female, to ensure any dirt, chips, or debris has been cleaned from the threads. Lubricate all threads with site approved thread lubricant.
- G. Place the snubber cylinder in the correct preset position and check the pin to pin dimension for installation. Make any minor adjustments in the pin to pin dimension at the threaded rod end.
- H. The snubber assembly is now ready for installation.

SNUBBER REMOVAL AND INSTALLATION

USE CATEGORY : **II**

REVISION SUMMARY

- ◆ The following OTSC's were evaluated for incorporation into this Revision: None
- ◆ This revision meets the biennial review requirements as specified in NC.NA-AP.ZZ-0001(Q).
- ◆ Note, Step 5.5.3, added Main Steam Isolation Valve and Steam Generator
- ◆ Hydraulic Snubber Table, added lisega 3018 snubber and torque requirements

IMPLEMENTATION REQUIREMENTS

- ◆ Effective Date 7-18-97

APPROVED:



Manager - Plant Maintenance

7/11/97
Date

ATTACHMENT 1

CHECK/DATA SHEET

1.0 JOB DATA:

To be completed by Station Planning Personnel or Responsible Maintenance Supervisor

Work Order Number: 970915562 -01

Snubber Identification: Size: PSA 3
Serial No.: 20647

Reference Used: Refer to Work Order

2.0 CALIBRATION DATA:

Record Calibration Data on Work Order.

3.0 SUPERVISOR AND INSPECTION HOLD POINTS SUMMARY:

5.1 D 10/2/97
SHP/Date

5.8 WBS 11/13/97
SHP/Date

4.0 COMPLETION SUMMARY:

Comments: _____

Individuals Performing Work: RICH GRANSEN, MAT LOYCE,
M. TOMLINSON,
G.P. SULLIVAN, G. HELMER, T. PIER, M. FAY, A. GIOACCI, J. S. ALL

This procedure has been reviewed to ensure all required mechanic initial sign offs and supervisor notifications have been initialed and dated.

WBS 11/13/97
Maintenance Supervisor/Date

ATTACHMENT 1 (continued)

2 Record results for the completion of freedom-of-motion test

SAT UNSAT

Comments: N/A

 N/A 10-9-97
 Mechanic/Date

5.4.2 Snubber Serial Number: 61380/37

Snubber Mark Number: 1-P-FB-006-H022
Snubber Size: LISEGA 3052

Comments:

 GPS 10-9-97
 Mechanic/Date

5.4.3 As Found Snubber Position: 5 5/8" C.S.

Comments:

 GPS 10-9-97
 Mechanic/Date

5.4.7 Number of Spacers Removed: 2 EACH SIDE
Pipe Clamp Loosened: NO

Comments:

 GPS 10-9-97
 Mechanic/Date

5.5.2.B New Snubber Serial Number: 61380/37

Comments: LISEGA 3052

 N/A 11-12-97
 Mechanic/Date

5.5.5 Extension Assembly Torque: N/A

Comments:

 N/A 11-12-97
 Mechanic/Date

5.5.9 As Left Snubber Cold Setting: 5 1/2"
Design Drawing Cold Setting: 2 1/2"

Comments:

 N/A 11-12-97
 Mechanic/Date

5.5.10 Extension Jam Nut Torque: 59 FT.LBS.

Comments: WR.# 202048 DUE 3-4-98

 N/A 11-12-97
 Mechanic/Date

ATTACHMENT 1 (continued)

.11 Load Pin Torque: 145 ft lbs

Comments: T44# 204000 DOE 11-21-97

CRD 10/18/97
Mechanic/Date

5.6.2.C Hanger Nuts Torque: N/A

Comments: _____

N/A 10-3-97
Mechanic/Date

5.6.3 Clamp Bolt Torque: N/A

Comments: _____

N/A 10-3-97
Mechanic/Date

SNUBBER REMOVAL AND INSTALLATION

CONTROL COPY #
7102

USE CATEGORY : II

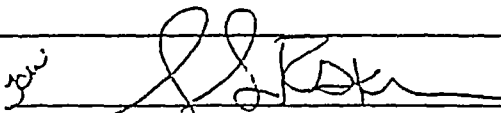
REVISION SUMMARY

- ◆ The following OTSC's were evaluated for incorporation into this Revision: None
- ◆ This revision meets the biennial review requirements as specified in NC.NA-AP.ZZ-0001(Q).
- ◆ Note, Step 5.5.3, added Main Steam Isolation Valve and Steam Generator
- ◆ Hydraulic Snubber Table, added lisega 3018 snubber and torque requirements

IMPLEMENTATION REQUIREMENTS

◆ Effective Date 7-18-97

APPROVED:



Manager - Plant Maintenance

7/11/97
Date

ATTACHMENT 1
CHECK/DATA SHEET

0.0 JOB DATA:

To be completed by Station Planning Personnel or Responsible Maintenance Supervisor

Work Order Number: 970915562

Snubber Identification: Size: PSA 3 ^{PS 11-9-97} Lisser 3052
Serial No.: 61380/37

Reference Used: Refer to Work Order

1.0 CALIBRATION DATA:

Record Calibration Data on Work Order.

1.0 SUPERVISOR AND INSPECTION HOLD POINTS SUMMARY:

5.1 D.R./10-9-97 5.8 WBS 11/13/97
SHP/Date SHP/Date

4.0 COMPLETION SUMMARY:

Comments: HAD TO REMOVE NEW LISSER DUE TO EXTENSION
ASSEMBLY BRING TOO SHORT. RETURNED TO CAGE TO SWAP
EXTENSION PER ENGINEERING DECISION.

Individuals Performing Work: G.P. SULLIVAN, G. HELLYER - REMOVE
T. PAGE, M. FAHY, A. RIVALLO - INSTALL

This procedure has been reviewed to ensure all required mechanic initial sign offs and supervisor notifications have been initialed and dated.

WBS 11/13/97
Maintenance Supervisor/Date

ATTACHMENT 1 (continued)

2 Record results for the completion of freedom-of-motion test

SAT _____ UNSAT _____

Comments: N/A

M.A.J. 10-3-97
Mechanic/Date5.4.2 Snubber Serial Number: 20644Snubber Mark Number: 1-P-FD-006-H022
Snubber Size: PSA 3Comments: _____

M.A.J. 10/3/97
Mechanic/Date5.4.3 As Found Snubber Position: 2 15/16"Comments: _____

M.A.J. 10/3/97
Mechanic/Date5.4.7 Number of Spacers Removed: 2 EACH SIDE
Pipe Clamp Loosened: NoComments: _____

M.A.J. 10/3/97
Mechanic/Date5.5.2.B New Snubber Serial Number: 61380/37Comments: leaga 3052

M.A.J. 10/3/97
Mechanic/Date5.5.5 Extension Assembly Torque: N/AComments: _____

M.A.J. 10-3-97
Mechanic/Date5.5.9 As Left Snubber Cold Setting: 5 5/8"
Design Drawing Cold Setting: 2 1/2"Comments: _____

M.A.J. 10/3/97
Mechanic/Date5.5.10 Extension Jam Nut Torque: 59 ft. lbsComments: TW # 202648 DUE 3-4-98

M.A.J. 10/3/97
Mechanic/Date