

Equipment Certs.

Instrument No. SAP 101310

Date: 01-16-01

CERTIFICATE OF CALIBRATION

1. Customer WesDyne International
 2. Location WesDyne, Waltz Mill
 3. Instrument Calibration UT - Scope
 4. Manufacturer Staveley
 5. Model Number Sonic 136
 6. Serial Number 136 - 911K

7. Reason for Submission
 Calibration
 Operational Failure
 Modifications
 8. Date of Last Calibration 02-14-00
 9. Recall Period 12 Months
 10. Recall Date 01-16-02

1. Calibration: Full Limited
 Ranges (Limited) _____

2. Calibration Location WesDyne Waltz Mill
 QA Cal. Lab
 3. Temperature 72 °F
 4. Relative Humidity 45 %

1. Instrument Found:
 Within Acceptance Tolerance
 Outside Acceptance Tolerance
 Tolerances Underterminable
 due to: _____

 Actual Cal. Data/Info on Back

2. Instrument Returned:
 Within Acceptance Tolerance
 With Limited Calibration
 Rejected due to: _____

3. Calibration Procedure:
 Manufacturer's
 Procedure No. WCAL-012, Rev. 0
 Established Methods

NIST Traceable Calibration Standards / Equipment Used

Manufacturer	Model No.	Inst. No.	Recall Date	Notes
KBA	009TNP	0°	N/A	

Calibrated by : William G. Halley
 Signature : *William G. Halley*

QA REVIEWED
W. G. Halley
 DATE 1-17-01


WESDYNE
 INTERNATIONAL
 A Subsidiary of Westinghouse Electric Company LLC

APPENDIX A - FORM 1

ULTRASONIC INSTRUMENT CHECKLIST

INSTRUMENT MANUFACTURER Staveley DATE 01-16-01
 SERIAL NUMBER 136-911K SAP NUMBER 101310

MECHANICAL INSPECTION	SAT	UNSAT
1. ALL SCREWS AND NUTS PROPERLY TIGHTENED	X	
2. ALL KNOBS IN PLACE AND TIGHTENED	X	
3. ALL POTENTIOMETERS AND DIALS TURN FREELY	X	
4. ALL KEY PADS FUNCTION PROPERLY	X	
5. ALL SWITCHES FUNCTION PROPERLY	X	
6. ALL CONNECTORS CLEAN AND TIGHTENED	X	
7. CRT MECHANICALLY SECURE AND READABLE	X	
8. HANDLES SECURE AND FUNCTIONAL	X	
9. COMPLETE UNIT CLEAN	X	

ELECTRICAL INSPECTION	SAT	UNSAT
1. UNIT FUNCTIONS ON BATTERY POWER	X	
2. CRT ALIGNED ON VERTICAL AND HORIZONTAL GRATICLE LINES	X	
3. BACK LIGHT OPERABLE	X	
4. LOW BATTERY WARNING SYSTEM OPERATES	X	
5. dB SWITCHES OPERATE PROPERLY	X	
6. REJECT FUNCTIONS PROPERLY	X	
7. FILTER FUNCTIONS PROPERLY	X	
8. DAMPING FUNCTIONS PROPERLY	X	

REMARKS: _____

ACCEPT X REJECT _____

LEVEL II EXAMINER William S. Hall

APPENDIX B – FORM 2

ULTRASONIC INSTRUMENT LINEARITY CHECKLIST

PROCEDURE WCAL – 012, Rev. 0 DATE 01-16-01
 SAP NUMBER 101310
 LEVEL II EXAMINER William G. Halley

EQUIPMENT

	INSTRUMENT		TRANSDUCER
MAKE	<u>Staveley</u>	SIZE	<u>0.5"</u>
MODEL	<u>Sonic 136</u>	FREQUENCY	<u>2.25 MHz</u>
SERIAL NO	<u>136-911K</u>	SERIAL NO	<u>009TNP</u>
COUPLANT	<u>Sonotrace 40 Batch #94243</u>	ANGLE	<u>0°</u>

SCREEN HEIGHT LINEARITY									
1st Signal	100%	90%	80%	70%	60%	50%	40%	30%	20%
2nd Signal	50%	45%	40%	35%	30%	25%	20%	15%	10%

Note: Readings must be 50% of the larger amplitude and within 5% of full screen height

AMPLITUDE CONTROL LINEARITY			
Indication set at % of Full Screen	dB Control Change	Indication Limits % of Full Screen	ACTUAL READING
80%	-6 dB	32 to 48%	40%
80%	-12 dB	16 to 24%	20%
40%	+ 6 dB	64 to 96%	80%
20%	+ 12 dB	64 to 96%	80%

Note : Readings must be estimated to the nearest 1% of full screen

REMARKS: _____

ACCEPT X REJECT _____



221 Crescent Street Suite 1
 Waltham, MA 02453-3497 USA
 TEL: (781) 898-2719
 E-mail: not@panametrics.com

ISO 9001 CERTIFIED

Certificate of Calibration

Form NDT 259F
 Certificate Number 2004881

Customer: SOUTHERN NUCLEAR OPERATIONS
 NDT Sales Order/RA: RA32667C
 Gage Model: 36DLPLUS S/N: 982068912
 Gage Status: After Repair Transducer Status: New
 Operational Software: 1.05/1.20A
 Transducer Model: D790-SM S/N: 99134
 Temperature: 77 F Humidity: 33 %

This certifies that calibration of the above ultrasonic thickness gaging system has been verified within the tolerance and measurement range indicated below, using calibration standards with measured thickness traceable to the National Institute of Standards and Technology (N.I.S.T.). The calibration standard material is CARBON STEEL. The test procedure used conforms to the requirements of ISO-9001 section 4.10.

All units below are: Inches

System Calibration Data					
Test-block S/N	Certified Length inches/mm	Measured Length inches/mm	Deviation inches/mm	Tolerance +/-Inches/mm	Within Tolerance?
296	.0387	.040	.0013	.002	YES
297	.0772	.078	.0008	.002	YES
298	.1961	.197	.0009	.002	YES
299	.3924	.393	.0006	.002	YES
300	.7866	.786	-.0006	.002	YES
301	1.9670	1.968	.0010	.002	YES
302	3.9370	3.937	.0000	.002	YES
N/A	N/A	N/A	N/A	N/A	N/A

Gage Setup: N/A
 Gage Velocity after Calibration: .2328 inches/us Gage Zero after Calibration: 4809

Note: The measurement accuracy of any ultrasonic gaging system is dependent on the performance and proper usage of both the gage and transducer. This certificate of calibration identifies the part number and serial number of the transducer used to make the recorded measurements. System performance with other transducers may differ, especially with transducers that have been subjected to excessive wear or overheating. The user assumes responsibility for verifying system accuracy if the gage is used with transducers other than the one identified on this certificate. It is the responsibility of the user to periodically verify system calibration as outlined in the instrument operating manual.

Comments: THE D790-SM TRANSDUCER # 99134 IS OWNED BY PANAMETRICS

With the exception of cosmetic tests on repaired gages, does the above gage pass all test requirements of Panametrics procedure #714-641? <<YES>>

Special Setup Approval: N/A

Technician: Thao Le/Test Technician

Date: JANUARY 8, 2001

Signature:

NONDESTRUCTIVE TEST DIVISION
 FAX: (781) 898-1552

Instrument SAP No. 102172

Date: 02-12-01

CERTIFICATE OF CALIBRATION

1. Customer WesDyne International

2. Location Waltz Mill

3. Instrument Calibration Y-6 Yoke

4. Manufacturer Magnaflux

5. Model Number Y-6

6. Serial Number A999603

7. Reason for Submission

Calibration	<input checked="" type="checkbox"/>
Operational Failure	<input type="checkbox"/>
Modifications	<input type="checkbox"/>

8. Date of Last Calibration 01-12-98

9. Recall Period 12 Months

10. Recall Date 02-12-02

1. Calibration: Full Limited Ranges (Limited) _____

2. Temperature 70 °F

1. Instrument Found:

Within Acceptance Tolerance	<input checked="" type="checkbox"/>
Outside Acceptance Tolerance	<input type="checkbox"/>

Rejected due to: _____

2. Instrument Returned:

Within Acceptance Tolerance	<input checked="" type="checkbox"/>
With Limited Calibration	<input type="checkbox"/>
Rejected due to:	<input type="checkbox"/>

Standard Used: 102156 Cal. Date 01-22-01 Cal. Due 01-22-04

Cal. Date _____ Cal. Due _____

GENERAL MAINTENANCE: (CHECK ONE BLOCK FOR EACH)

	GOOD	FAIR	POOR UNACCEPTABLE
CONDITION OF CORD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONDITION OF SWITCHES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONDITION OF LEGS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CALIBRATION TEST RESULTS

A. C. YOKE: LIFTED 10 POUND PIECE OF STEEL YES NO _____ N/A _____

D. C. YOKE: LIFTED 40 POUND PIECE OF STEEL YES _____ NO _____ N/A

ACCEPTABLE UNACCEPTABLE _____

Calibrated by: William G. Halley
Print Name

William G. Halley
Signature



A Subsidiary of Westinghouse Electric Company LLC

QA REVIEWED
[Signature]
DATE 2-13-01

WCAL-003 - FORM A - REV. 1 - 8/00

Instrument SAP No. 101724

Date: 3/19/01

CERTIFICATE OF CALIBRATION

1. Customer WesDyne Intl.
 2. Location Waltz Mill
 3. Manufacturer Spectronics
 4. Model Number DSE-100X
 5. Serial Number 165449

6. Reason for Submission
 Calibration
 Operational Failure
 7. Date of Last Calibration 10/11/99
 8. Recall Period 12 Months
 9. Recall Date 3/19/02

1. Calibration Full Limited Ranges (Limited) N/A
 2. Temperature 70 °F

1. Instrument Found:
 Within Acceptance Tolerance
 Outside Acceptance Tolerance
 Rejected due to: N/A

2. Instrument Returned:
 Within Acceptance Tolerance
 With Limited Calibration

STANDARD USED: Manufactured Calibrated
 DSE 100X Digital Radiometer S/N 101953
 DIX 365 UV-A Sensor S/N 101955
 DIX 555A Visible Light Sensor S/N 101954

1. ZERO CHECK X OK _____ ADJUSTED _____
 2. U.V. CALIBRATION (Light Source 15" From Sensor)

SET LIGHT SOURCE TO:

READ LAB STD. U. W. / CM ²	READ U. U. T. U. W. / CM ²	TOLERANCE ± 5% OF READING
NORMAL <u>1630</u>	AS IS <u>1610</u>	ADJ. SENSOR TO: <u>N/A</u>
HIGH <u>2830</u>	<u>2800</u>	

3. VISIBLE LIGHT CALIBRATION (Flourescent Light Source)

READ LAB STD. FT. CANDLES	READ U. U. T. FT. CANDLES	TOLERANCE ± 5% OF READINGS
<u>106.3</u>	AS IS <u>101.6</u>	ADJ. SENSOR TO: <u>106.9</u>

Calibrated by: Ben Livingston
Print Name

Ben Livingston
Signature



QA REVIEWED
J.D. Furrer
 DATE 3-22-01

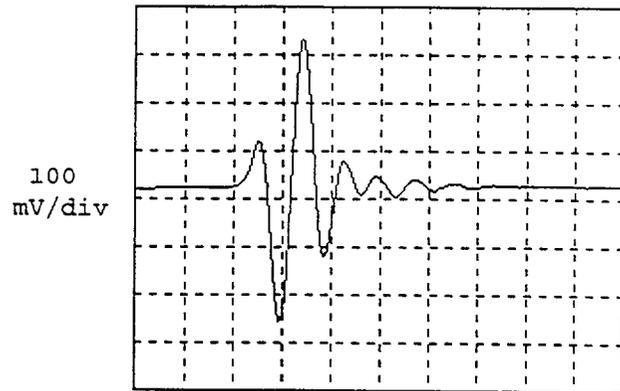
TD Certs.

AEROTECH

TRANSDUCER CERTIFICATION

DATE: 01-06-1998
MODEL 113-242-591
SERIAL 007RMJ
SERIES: BENCHMARK STYLE: MSWQC
ELE. SIZE: .50
NOMINAL FREQUENCY: 2.25 MHz

Test Setup--
Test Block : .375" Plexiglass
Energy Setting: 3
Impedance Setting: 250 ohms



Test Data--

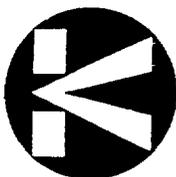
Center Frequency: 2.5125 MHz
Peak Frequency: 2.35 MHz
Absolute Sensitivity: -32.8 db

Inspector: jt
Equipment Used:
UTA: SN MM00113
UTA Cal Due Date: 07/15/98
O-Scope SN: B010804
Cal Due Date: 10/17/98
Software: FNT0040 Rev. C



Procedure: Waveform shown is the first
Return Echo from the indicated target.

The accuracy of the instrument described above has been confirmed by
factory standard test equipment and laboratory reference standards
traceable to the National Institute of Standards and Technology.
This facility's Quality System is registered to ISO 9001 - DNV
Certificate No. 96-HOU-AQ-1095, and is compliant to MIL-STD-45662A.



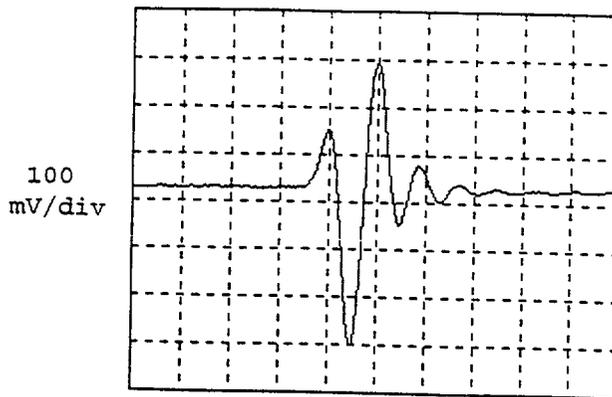
Krautkramer Branson
P.O. Box 350, Lewistown, PA; 17044
(717) 242-0327 Fax: (717) 242-2606



AEROTECH TRANSDUCER CERTIFICATION

DATE: 07-28-1998
MODEL 113-234-591
SERIAL 009KMP
SERIES: BENCHMARK STYLE: MSWQC
ELE. SIZE: .375
NOMINAL FREQUENCY: 5 MHz

Test Setup--
Test Block : .375" Plexiglass
Energy Setting: 3
Impedance Setting: 250 ohms



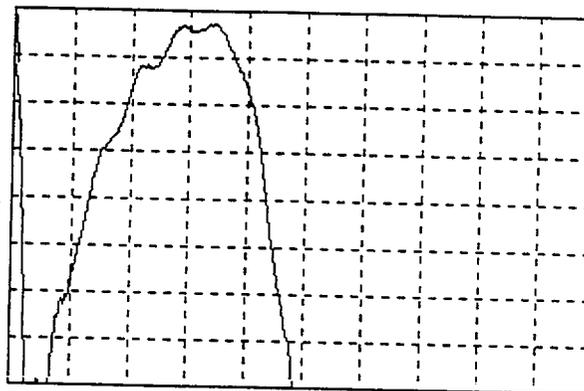
.2 usec/div

Test Data--

Center Frequency: 4.275 MHz
Peak Frequency: 5.05 MHz
Absolute Sensitivity: -30.2 db

Inspector: jt
Equipment Used:
UTA: SN MM00113
UTA Cal Due Date: 07/06/99
O-Scope SN: B010804
Cal Due Date: 10/17/98
Software: FNT0040

2 db/div



1.5 MHz/div

Procedure: Waveform shown is the first
Return Echo from the indicated target.

The accuracy of the instrument described above has been confirmed by factory standard test equipment and laboratory reference standards traceable to the National Institute of Standards and Technology. This facility's Quality System is registered to ISO 9001 - DNV Certificate No. 96-HOU-AQ-1095, and is compliant to MIL-STD-45662A.



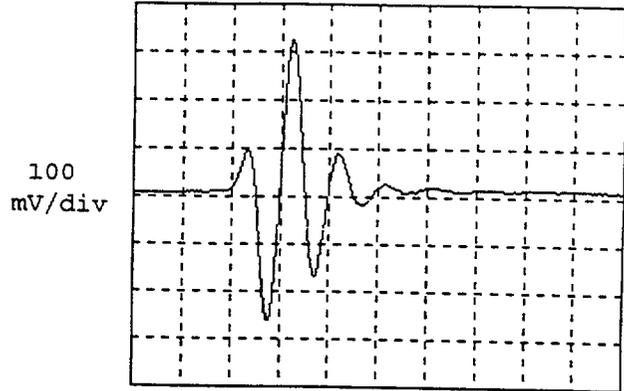
Krautkramer Branson
P.O. Box 350, Lewistown, PA; 17044
(717) 242-0327 Fax: (717) 242-2606



AEROTECH TRANSDUCER CERTIFICATION

DATE: 08-11-1998
MODEL 113-232-591
SERIAL 009P5K
SERIES: BENCHMARK STYLE: MSWQC
ELE. SIZE: .375
NOMINAL FREQUENCY: 2.25 MHz

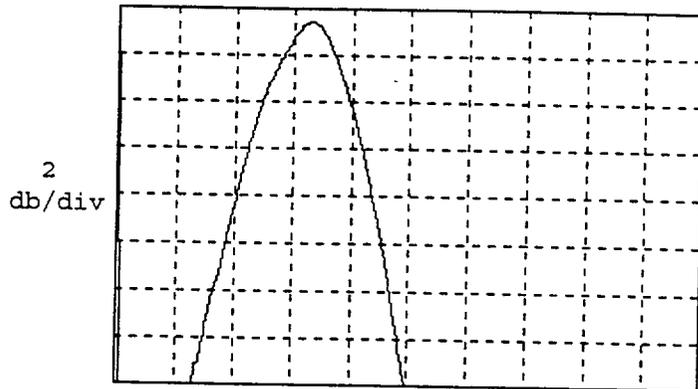
Test Setup--
Test Block : .375" Plexiglass
Energy Setting: 3
Impedance Setting: 250 ohms



Test Data--

Center Frequency: 2.4125 MHz
Peak Frequency: 2.475 MHz
Absolute Sensitivity: -31 db

Inspector: jt
Equipment Used:
UTA: SN MM00113
UTA Cal Due Date: 07/06/99
O-Scope SN: B010804
Cal Due Date: 10/17/98
Software: FNT0040 Rev. C



Procedure: Waveform shown is the first
Return Echo from the indicated target.

The accuracy of the instrument described above has been confirmed by
factory standard test equipment and laboratory reference standards
traceable to the National Institute of Standards and Technology.
This facility's Quality System is registered to ISO 9001 - DNV
Certificate No. 96-HOU-AQ-1095, and is compliant to MIL-STD-45662A.



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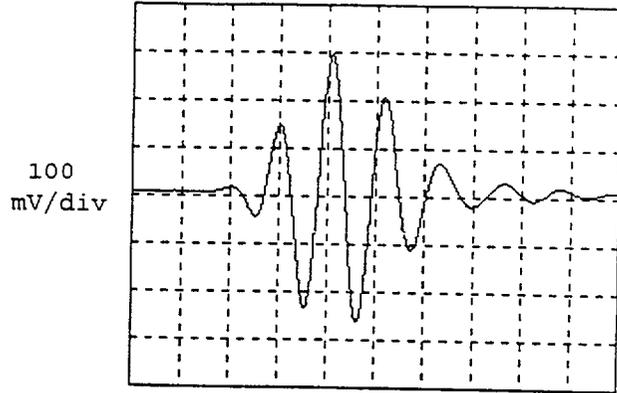


AEROTECH

TRANSDUCER CERTIFICATION

DATE: 09-01-1998
MODEL 113-292-600
SERIAL 009XBK
SERIES: GAMMA STYLE: SWS
ELE. SIZE: .50 X 1.0
NOMINAL FREQUENCY: 2.25 MHz

Test Setup--
Test Block : 1.0" PLEXI GLASS
Energy Setting: 2
Impedance Setting: 100 ohms

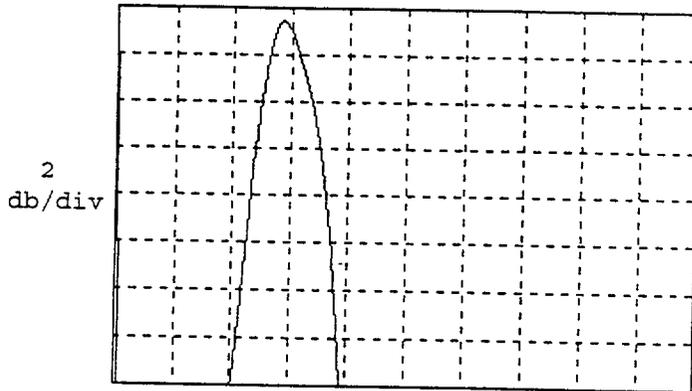


.4 usec/div

Test Data--

Center Frequency: 2.25 MHz
Peak Frequency: 2.15 MHz
Relative Sensitivity: 46 db
Inspector: bn

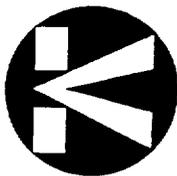
Equipment Used:
UTA-4: SN 0233
UTA-4 Cal Due Date: 04/30/99
O-Scope SN: B022065
Cal Due Date: 10/17/98
Software: FNT-0040 Rev. C



.75 MHz/div

Procedure: Waveform shown is the first
Return Echo from the indicated target.

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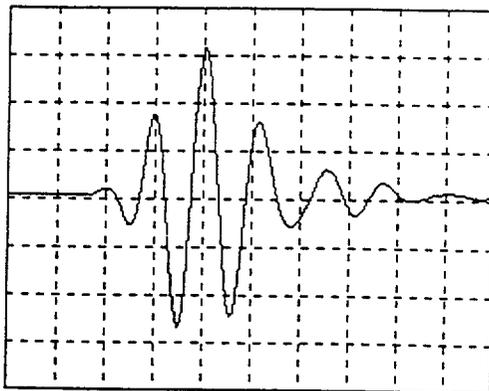
AEROTECH

TRANSDUCER CERTIFICATION

DATE: 09-01-1998
MODEL 113-292-600
SERIAL 009XBL
SERIES: GAMMA STYLE: SWS
ELE. SIZE: .50 X 1.0
NOMINAL FREQUENCY: 2.25 MHz

Test Setup--
Test Block : 1.0" PLEXI GLASS
Energy Setting: 2
Impedance Setting: 100 ohms

100
mV/div



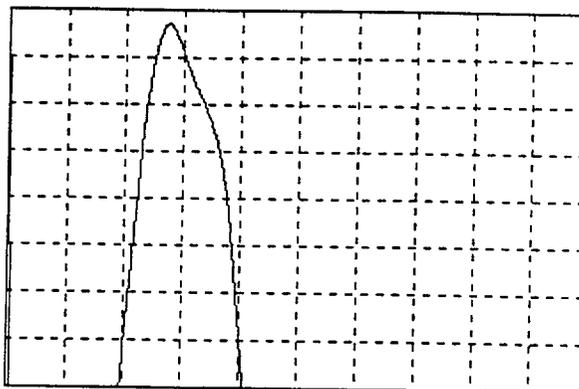
.4 usec/div

Test Data--

Center Frequency: 2.25 MHz
Peak Frequency: 2.075 MHz
Relative Sensitivity: 48 db
Inspector: bn

Equipment Used:
UTA-4: SN 0233
UTA-4 Cal Due Date: 04/30/99
O-Scope SN: B022065
Cal Due Date: 10/17/98
Software: FNT-0040

2
db/div

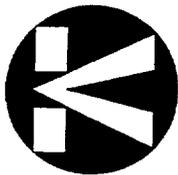


Rev. C

Procedure: Waveform shown is the first
Return Echo from the indicated target.

.75 MHz/div

The accuracy of the instrument described above has been confirmed by
factory standard test equipment and laboratory reference standards
traceable to the National Institute of Standards and Technology.
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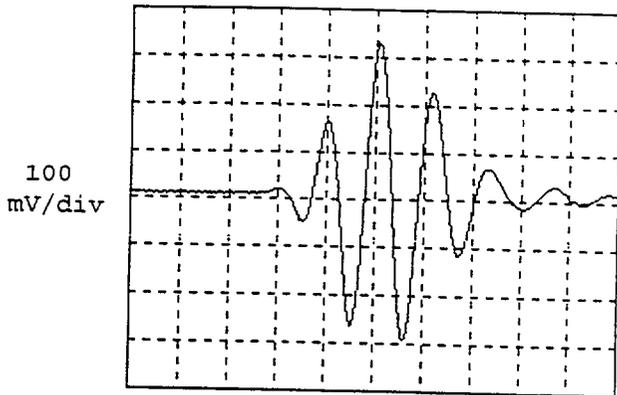


AEROTECH

TRANSDUCER CERTIFICATION

DATE: 10-19-1998
MODEL 113-292-600
SERIAL 00B955
SERIES: GAMMA STYLE: SWS
ELE. SIZE: .50 X 1.0
NOMINAL FREQUENCY: 2.25 MHz

Test Setup--
Test Block : 1.0" PLEXI GLASS
Energy Setting: 2
Impedance Setting: 100 ohms



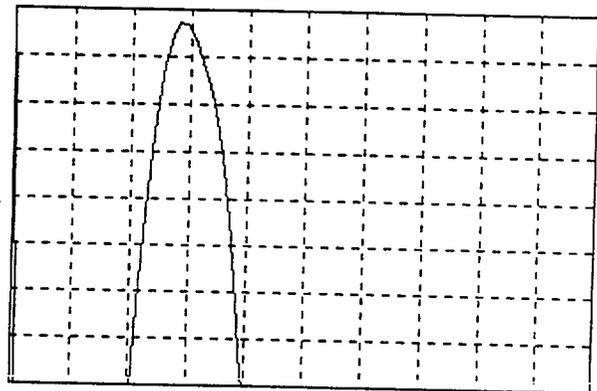
.4 usec/div

Test Data--

Center Frequency: 2.2375 MHz
Peak Frequency: 2.1375 MHz
Relative Sensitivity: 46 db
Inspector: bn

Equipment Used:
UTA-4: SN 0233
UTA-4 Cal Due Date: 04/30/99
O-Scope SN: B022065
Cal Due Date: 10/15/99
Software: FNT-0040 Rev. C

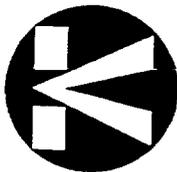
2
db/div



.75 MHz/div

Procedure: Waveform shown is the first
Return Echo from the indicated target.

The accuracy of the instrument described above has been confirmed by
factory standard test equipment and laboratory reference standards
traceable to the National Institute of Standards and Technology.
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Certificate No. 96-HOU-AQ-1095, and is compliant to MIL-STD-45662A.



Krautkramer Branson
P.O. Box 350, Lewistown, PA; 17044
(717) 242-0327 Fax: (717) 242-2606



An **AGFA** Company

Transducer Certification

Compliant to ASTM E-1065 Guidelines

Date: 10/4/00
Product Code: 113-222-591
Serial Number: 00LCFD
Description: MEMOG.BCHMK.2.25 MHz X.25.

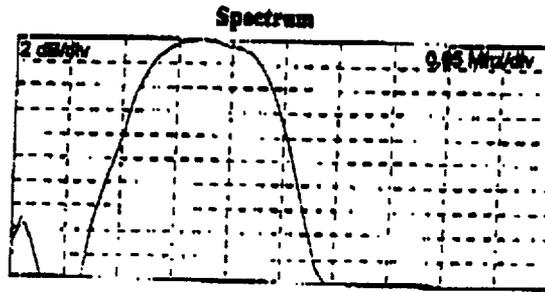
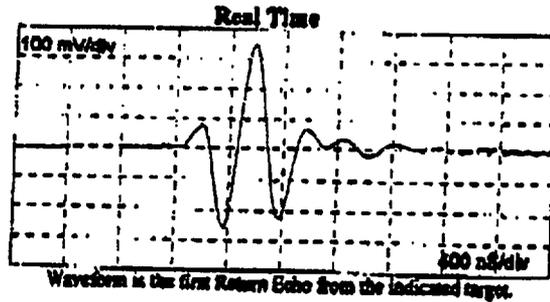
Test Setup--
Test Target: .375" Plexiglass
Energy: 3
Impedance: 250 Ohms

Equipment Used:
UTA Pulser: UTAS
UTA S/N: MM00113
UTA Cal Date: 7/17/01
O-scope S/N: B010804
O-scope Cal Date: 10/15/00

Software: FNT0040 Rev: D

Test Data--
Sensitivity(Abs db): -25.20 dB
Pulse Duration@-20dB: 1.16E-06 Sec
Peak Frequency: 2.20E+06 Hz
Center Frequency: 2.26E+06 Hz
% Bandwidth@-6dB: 81.0 %

Inspector: AV



The accuracy of the instrument described above has been confirmed by factory standard test equipment and laboratory reference standards traceable to the National Institute of Standards and Technology. This facility's Quality System is registered to ISO 9001 - DNV Certificate No. 09-HOU-AQ-1099, and is compliant to MIL-STD-45662A.

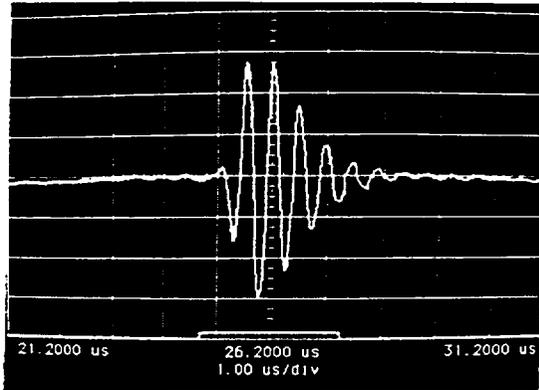


Krautkramer Inc.
50 Industrial Park Rd.
Lewistown, PA 17044
Tel: 717.242.0327
Fax: 717.242.2606
<http://www.krautkramer.com>

Equipment

1. Spectrum Analyser Make : Hewlett Packard Type : HP 4195A
2. Oscilloscope Make : Hewlett Packard Type : HP 54501A
3. Ultrasonic Analyser Make : Panametrics Type : PA 5052UA
Energy: 4 ; Rcvr Atten: 10+6 dB; Gain 40 dB; Damping: 50 Ω

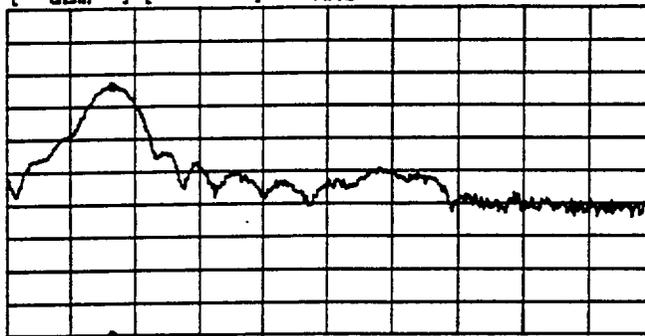
Cable 2 meter Coax RG 174/U 50 Ω



Wave form

Measurement with flat probe shoe

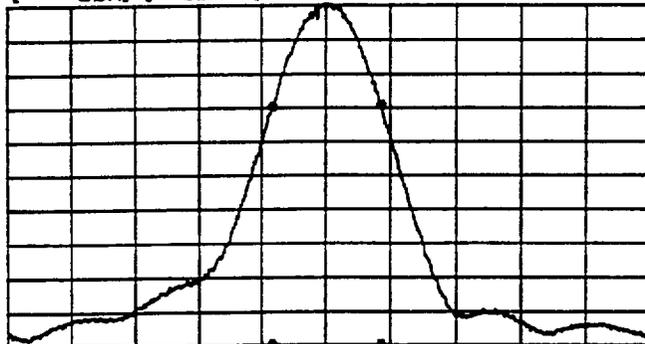
SPECTRUM
A: REF B: REF MKR 2 087 500.000 Hz
-10.00 0.000 MAG -34.0880 dBm
[dBm] [] MAG



Spectrum (dB)

BTM DIV START 500 000.000 Hz
-140.0 10.00 STOP 10 000 000.000 Hz
RBW: 3 KHZ ST: 8.20 sec RANGE: R= 10, T= 0dBm
01-985

SPECTRUM Math
A: REF B: REF MKR 502 500.000 Hz
[4.434m] [0.000] [MAG 28.8105μ V DBM]
[DBM] [DBM] []



Spectrum (Volt)

BTM DIV CENTER 2 079 966.393 Hz
0.000 10.00 SPAN 3 000 000.000 Hz
RBW: 3 KHZ ST: 2.53 sec RANGE: R= 10, T= 0dBm
01-985

Centre Frequency : 2.00 MHz
Band Width at -3dB : 0.50 MHz

Probe

RTD
01-985
Long Wave
60° TRL 2-Aust
2(8x14)
SA2° FS-30

Housing

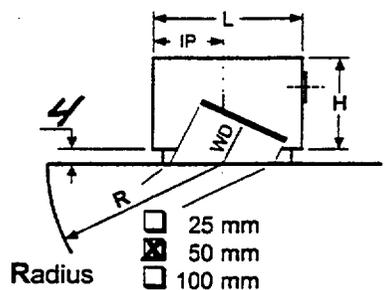
25 x25 x23 mm (LxWxH)
Style Manual Mechanised
Conn. Lemo-00

IP : 10 1/2 mm on R= 50 mm
WD 22 mm

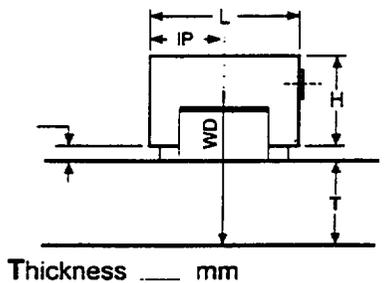
Reference Block

- Aust, ~5750 m/s Long
 ~3150 m/s Trans
 Steel, ~5950 m/s Long
 ~3230 m/s Trans

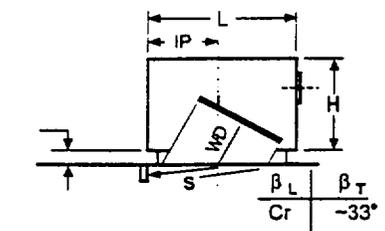
Radius Block



Back Wall 0°



Notch



Notch Depth 1 mm



Röntgen Technische Dienst bv

Probe Department

Rotterdam, NL - The Netherlands

Frequency Spectrum Data Sheet

Measured by: P. Schalk

Date: 170801



221 Crescent St Waltham MA 02453-3497
 Tel: 800-225-8330, 781-899-2719
 Fax: 781-899-1552

TRANSDUCER DESCRIPTION

PART NO.: D791-RM FREQUENCY: 5.00 MHz
 SERIAL NO.: 119939 ELEMENT SIZE: .25 in. DIA.
 DESIGNATION: CONTACT

TEST INSTRUMENTATION

PULSER/RECEIVER: PANAMETRICS 5030A #2
 DIGITAL OSCILLOSCOPE: LCY9450 3E0324-CH1
 TEST PROGRAM: TP103-2 VER. 995BI
 CABLE: SEE COMMENT

TEST CONDITIONS

PULSER SETTING: ENERGY:1 ; DAMPING:50
 RECEIVER SETTING: ATTN:26dB ; GAIN:40dB
 TARGET: .70 in. STEEL
 JOB CODE: TP200

MEASUREMENTS PER ASTM E1065

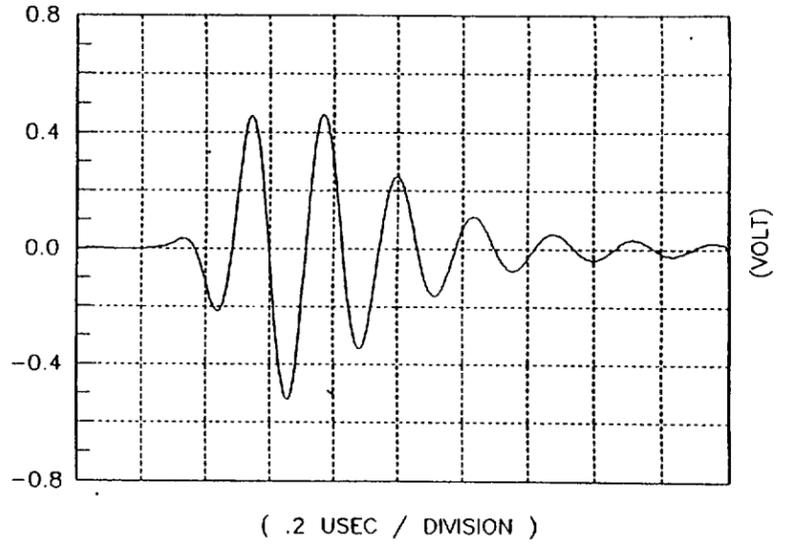
WAVEFORM DURATION:	SPECTRUM MEASURANDS:
-14DB LEVEL -- 0.85US	CENTER FREQ. ---- 4.38MHz
-20DB LEVEL -- 0.99US	PEAK FREQUENCY -- 4.30MHz
-40DB LEVEL -- +1.76US	-6DB BANDWIDTH -- 33.156 %

COMMENTS:

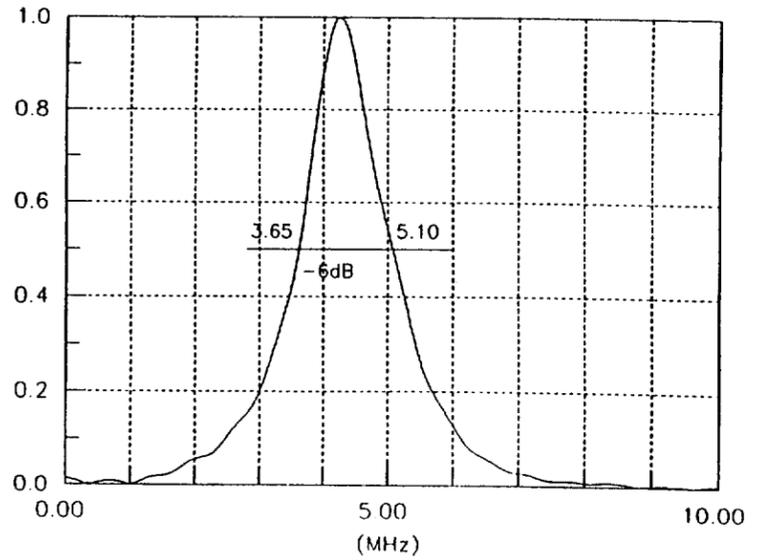
CABLE RG-174/U 5 ft.
 PULSER IN THRU XMSN MODE
 * MEASUREMENT NOT PERFORMED OR MAY BE UNRELIABLE.

** ACCEPTED. AUTHORIZED BY: *[Signature]* DATE: 2-23-2000
 TECHNICIAN: (2) *[Signature]* DATE: 02-23-2000

SIGNAL WAVEFORM



FREQUENCY SPECTRUM



STAVELEY SENSORS INC. HARRISONIC LAB

TRANSDUCER CERTIFICATION SHEET

TEST DATE:

TRANSDUCER DATA

Part Number	: A10L	Focal type	: N/A
Serial Number	: 4890	Focal point (in)	: N/A
Frequency (Mhz)	: 10.0	Water path (in)	: N/A
Element size (in)	: .50"	Cable	: 6'RG174
Type	: CONTACT	Connector	: BNC
Test specification(s):			
Test block/target	: 1.0" STEEL BLOCK		
Tester	: P.B.	Test date	: 09/01/00

PULSER/RECEIVER DATA

Pulser output (v)	: 120	Damping (Q)	: 50
Received signal (v)	: 15.5	Energy	: 1
Loop gain (db)	: -17.77	Attenuation (db)	: 58
Trigger/rep. rate	: EXT	Gain (db)	: 40
H. P. filter (Mhz)	: 1.0		

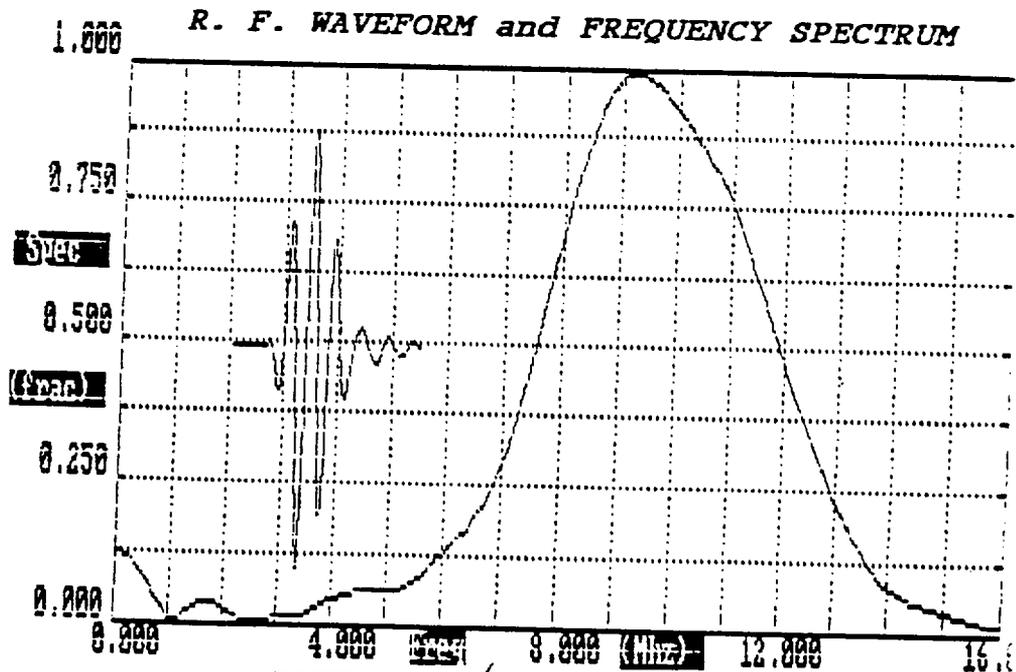
SYSTEM DATA

FREQUENCY SPECTRUM

Peak Freq (mhz): 9.250
Cntr Freq (mhz): 9.730
Low -6 dB (mhz): 7.527
Hi -6 dB (mhz): 11.934
BW @ -6 dB (mhz): 4.407
BW @ -6 dB (%): 45.3

R. F. WAVEFORM

Hor Res (us/div): 0.250
Vert Res (v/div): 0.250



DOCUMENTED BY:
CHECKED BY: *[Signature]*

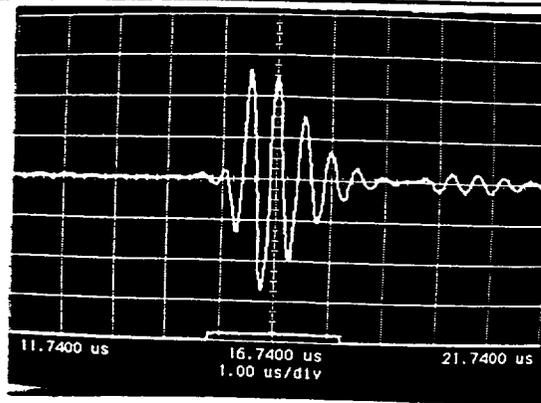
DATE: 9/1/00
DATE: SEP 1 2000

TEST EQUIPMENT: PANAMETRICS MODEL 5052UA TRANSDUCER ANALYZER
SONOTEK "ProbeTEST" TRANSDUCER EVALUATION PROGRAM A/D S/N 215

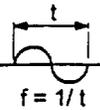
Equipment

- Spectrum Analyser Make : Hewlett Packard Type : HP 4195A
- Oscilloscoop Make : Hewlett Packard Type : HP 54501A
- Ultrasonic Analyser Make : Panametrics Type : PA 5052UA
Energy: ϵ ; Rcvr Atten: $20+0$ dB; Gain 40 dB; Damping: 50 Ω

Cable 2 meter Coax RG 174/U 50 Ω

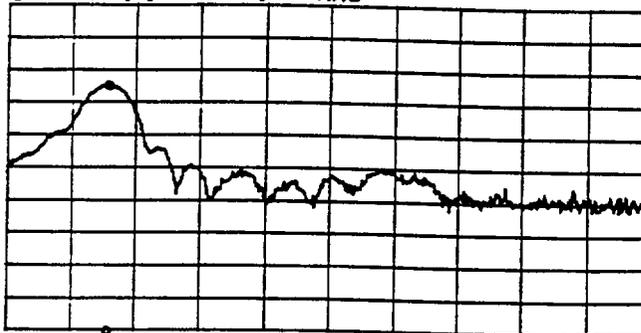


Wave form



Measurement with flat probe shoe

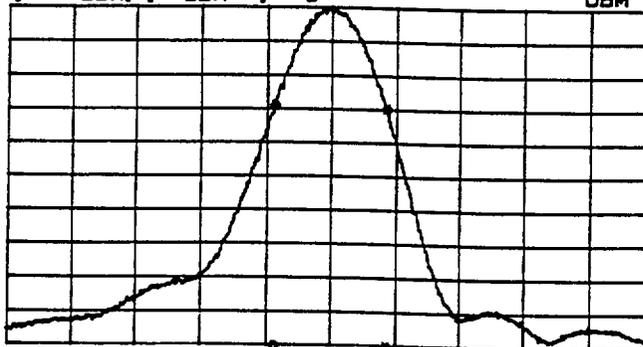
SPECTRUM
A: REF -10.00 dBm B: REF 0.000 MKR 1 998 250.000 Hz
MAG -34.6879 dBm



Spectrum (dB)

BTM -110.0 DIV 10.00 START 500 000.000 Hz
STOP 10 000 000.000 Hz
RBW: 3 KHZ ST: 8.20 sec RANGE: R= 10, T= 0dBm
99-822

SPECTRUM Math
A: REF 4.178m DBM B: REF 0.000 DBM MKR 517 500.000 Hz
MAG -28.4098V DBM



Spectrum (Volt)

BTM 0.000 DIV 10.00 CENTER 2 005 214.328 Hz
SPAN 3 000 000.000 Hz
RBW: 3 KHZ ST: 2.53 sec RANGE: R= 10, T= 0dBm
99-822

Centre Frequency : 2.00 MHz
Band Width at -3dB : 0.52 MHz

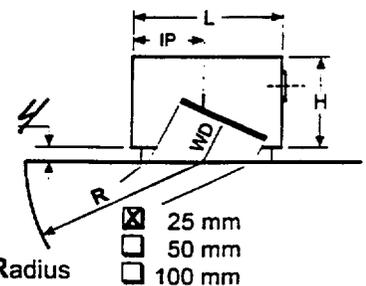
Probe RTD
99-822
Long. Wave
45° TRL 2- Aust
2(8x14)
SA 6° FS-25

Housing 25 x 25 x 23 mm (LxWxH)
Style Manual Mechanised
Conn. Lemo-00
IP : 10 1/2 mm on R= 25 mm
WD : 21 mm

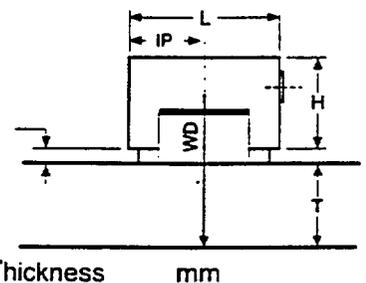
Reference Block

- Aust. -5750 m/s Long
-3150 m/s Trans
 Steel. -5950 m/s Long
-3230 m/s Trans

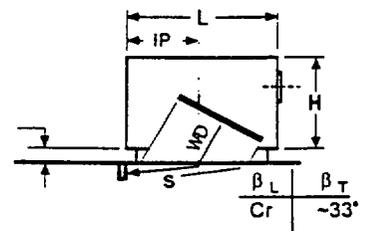
Radius Block



Back Wall 0°



Notch



Röntgen Technische Dienst bv

Probe Department

Rotterdam, NL - The Netherlands

Frequency Spectrum Data Sheet

Measured by: *P. Schich*

Date: 260599

TRANSDUCER CERTIFICATION

Transducer Description

Series GAMMA S/N C26672

frequency 2.25 MHz Size 1.0

Style CP Connector BNC

Contact Immersion Nonfocused TRACE I

Water Path AAA Spherical

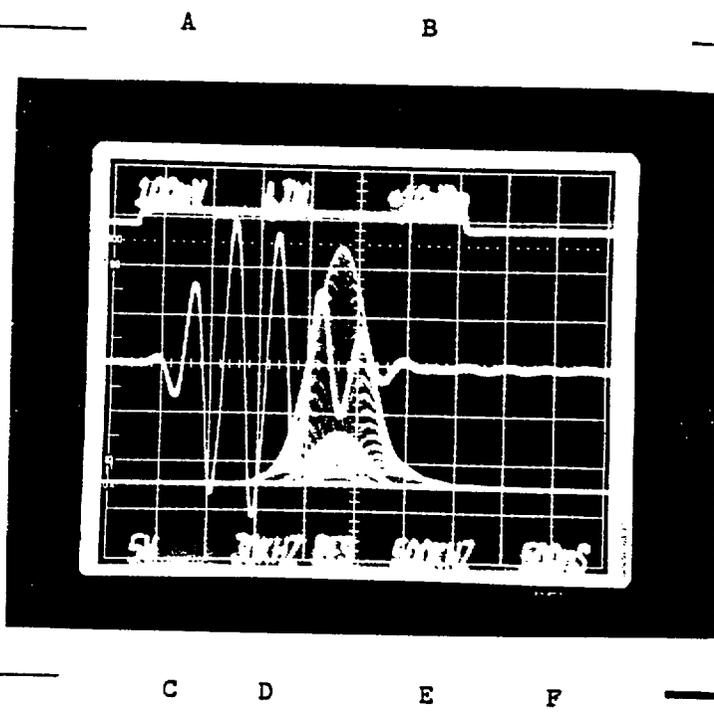
Target 3.0" STEEL Cylindrical TRACE II

Relative Sensitivity 69 dB

Energy Setting 4 Impedance 250 TRACE III

Peak or Center Frequency 2.3 MHz

Inspector SLO Date 4-7-86



Testing Procedure

The real time waveform shown in the photo above is the first return echo from a reflector selected with respect to transducer type. All contact (wearplate) transducers are tested on a flat steel (4340) plate while epoxy-faced shear wave transducers are tested on a flat polymer block. Dual contact transducers are tested on a flat polymer block unless otherwise specified. Delay fingertip removable (Style DFR) transducers are tested off of the tip of the delay line. Nonfocused immersion transducers are tested in water over a flat steel plate using a water path as specified above. Focused immersion transducers are tested the same as nonfocused transducers except that the water path used is equal to the actual focal length.

Using an AEROTECH Ultrasonic Transducer Analyzer, Model UTA-4, and a Tektronix 7L12 frequency spectrum analyzer in a 7704A Mainframe, the real time waveform, UTA-4 gate signal, and the frequency spectrum of the gated signal are simultaneously displayed and photographed. Using the linear attenuator in the UTA-4 receiver, the amplitude of the real time waveform is adjusted to a six centimeter amplitude (± 1 dB) on the CRT. With the vertical calibration of Trace II fixed at 100 millivolts per division, the amount of attenuation used provides a relative sensitivity rating for all transducers certified by Krautkramer Branson.

Real Time Waveform - Trace II

Screen writing figures A and F provide the vertical and horizontal screen calibration respectively for Trace II.

Gate Marker - Trace I

Screen writing figure C provides the vertical amplitude of the gate marker and is an inconsequential figure. The horizontal calibration for Trace I is the same as that for Trace II. The portion of Trace II that falls within the gate time period is the signal fed to the frequency spectrum analyzer.

Frequency Spectrum - Trace III

Screen writing figure E provides the horizontal calibration for Trace III. Figures B and D show the spectrum analyzer's attenuator and resolution settings respectively.

KRAUTKRAMER BRANSON
P. O. Box 350
Lewistown, PA 17044

Material Certs.

**J. M. FARLEY UNIT 1
RF-17
EXAMINATION MATERIALS**

ULTRASONIC COUPLANT

MANUFACTURER	TYPE	BATCH NO
SONOTECH INC.	ULTRAGEL II	00325
SONOTECH INC.	ULTRAGEL II	01125

DYE PENETRANT

PRODU CT	MANUFACTURER	TYPE	BATCH NO.
CLEANER/REMOVER	MAGNAFLUX	SKC-S	99J01K
PENETRANT	MAGNAFLUX	SKL-SP	96J02K
DEVELOPER	MAGNAFLUX	SKD-S2	98D11K

MAGNETIC MATERIALS

MANUFACTURER	TYPE	BATCH NO.
MAGNAFLUX	RED 8A	95H062
MAGNAFLUX	14AM	96F02K

SURFACE THERMOMETER

MANUFACTURER	IDENTIFICATION NO.
PACIFIC TRANSDUCER CORPORATION	43619
PACIFIC TRANSDUCER CORPORATION	43880



LABORATORY TESTING INC.

2331 Topaz Drive, Hatfield, PA 19440
TEL: 800-219-9095 • FAX: 800-219-9096

Certified Test Report

SII006-00-10-20799



Materials Testing Laboratory
NOT (PT, MT, RT, UT)

SOLD TO

Sonotech, Incorporated
P.O. Box 2189
Bellingham, WA 98227-2189

SHIP TO

Sonotech, Incorporated
P.O. Box 2189
Bellingham, WA 98227-2189
ATTN: John Rutter

CUSTOMER P.O.

5496

CERTIFICATION DATE

10/10/2000

SHIP VIA

FAX AND MAIL

DESCRIPTION

1 pc. Chemical Batch #003-U Covering:
Ultragel II Batch #00325,
Sonotrace 20 Batch #00341
Sonotrace 30 Batch #00342
Sonotrace 40 Batch #00343

The submitted sample was analyzed in accordance with ASTM D-512, ASTM D-808 and ASTM D-129 with the following results:

<u>ELEMENT</u>	<u>ACTUAL</u>
Total Cl	5. ppm
Total F	5. ppm
Total S	14. ppm

The services performed above were done in accordance with LTI's Quality System Program Manual Revision 14 dated 10/8/99. These results relate only to the items tested and this report shall not be reproduced, except in full, without the written approval of Laboratory Testing, Inc. L.T.I. is accredited by A2LA in the Chemical, Mechanical and Nondestructive Fields of Testing. L.T.I. is accredited by NADCAP in the Material's Testing and NDT, MT, PT, RT and UT.

Sherri L. Lengyel
QA Coordinator

By: Sherri L. Lengyel
Authorized Signature

Certified Test Report

SII006-01-04-08650

**LABORATORY
TESTING INC.**

2331 Topaz Drive, Hatfield, PA 19440
TEL: 800-219-9095 • FAX: 800-219-9096



SOLD TO

Sonotech, Incorporated
P.O. Box 2189
Bellingham, WA 98227-2189

SHIP TO

Sonotech, Incorporated
P.O. Box 2189
Bellingham, WA 98227-2189
ATTN: John Rutter

CUSTOMER P.O.

5621

CERTIFICATION DATE

04/27/01

SHIP VIA

FAX AND MAIL

DESCRIPTION

1 pc. Test Sample, Identified as 011-U, Covering: Ultragel II – 01125
Sonotrace 20 – 01141, Sonotrace 30 – 01142, Sonotrace 40 - 01143

The submitted sample was analyzed in accordance with ASTM D-512, ASTM D-808 and ASTM D-129 with the following results:

<u>ELEMENT</u>	<u>ACTUAL</u>
Total Chlorides	26. ppm
Total Fluorides	7. ppm
Total Sulfur	29. ppm

The services performed above were done in accordance with LTI's Quality System Program Manual Revision 15 dated 12/4/00. These results relate only to the items tested and this report shall not be reproduced, except in full, without the written approval of Laboratory Testing, Inc. L.T.I. is accredited by A2LA in the Chemical, Mechanical and Nondestructive Fields of Testing. L.T.I. is accredited by NADCAP in the Material's Testing and NDT, MT, PT, RT and UT.

MERCURY CONTAMINATION: During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing a single boundary of containment.

Sherri L. Lengyel
QA Coordinator

Sherri L. Lengyel

By: _____

Authorized Signature

3624 WEST LAKE AVE
GLENVIEW, ILLINOIS 60025
PHONE 847.657.5300
FAX 847.657.5388

DATE: OCTOBER 13, 1999

PURCHASE ORDER NO. _____

SUBJECT: SPOTCHECK CLEANER/REMOVER TYPE: SKC-S

BATCH NO: 99J01K

We hereby certify that when tested at time of manufacture, the above material:

1. Meets the requirements of and has been tested for sulfur and halogens according to:

A. ASME Boiler and Pressure Vessel Code, 1983 Edition, Section V, Nondestructive Examination, including all Addenda through Winter 1983 Addendum, Article 6 Paragraph T-625 and Article 24 as applicable.

B. ASME Boiler and Pressure Vessel Code, 1986, 1989, and 1992 Edition, Section V, Nondestructive Examination, Article 6 including 1992 Addenda, Paragraph T-625, 1993 Addenda Paragraph T-640 and Article 24 as applicable.

C. ASME Boiler and Pressure Vessel Code, 1995 Edition & 1998 Edition, Section V, Nondestructive Examination, Article 6 Paragraph T640 and Article 24 as applicable.

D. ASTM E-165-92, ASTM E-165-94, and ASTM E-165-95, Paragraph 7.1.

E. MIL-STD-271F(SH), 27 June 1986, Paragraphs 5.3 and 5.3.1., including Notice 1 Paragraph 5.6.1(21, June 1993).

F. NAVSEA T9074-AS-GIB-010/271, 30 April 1997, Paragraph 5.3.1.

G. NAVSEA 250-1500-1 (Rev. 10 June 1979, Rev. 11 May 1983, Rev 12 December 1987 including ACN 2 Nov. 15, 1990, rev. 13 September 1993) Paragraphs 12.5.1.1. and 12.5.1.1.1.

H. MIL-STD-2132B(SH), 31 August 1993, Paragraph 7.1, 7.1.2, 7.1.3, and Appendix C, Paragraph 40.

The following test results were obtained:

Sulfur: NA wt, % of residue. CL + F: NA wt, % of residue

Cleaner residue (see note 3) 0.0041 g/100g. 0.0031 g/100ml

2. We further certify that this material does not contain mercury as a basic element and no mercury bearing equipment was used in its manufacture.

MAGNAFLUX®


M. Plamoottil, Manager, Quality Assurance
Mary Kay McGlynn - Document Clerk

- NOTES: 1. Our batch number appears on the bottom of all aerosol cans and on the label of all bulk containers.
2. Most specifications require test results stated in percent but some require parts per million (ppm). To convert "percent" figures to "parts per million" move the decimal four places to the right.
3. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.

Form No. 1569 R-10/99

3624 WEST LAKE AVE
GLENVIEW, ILLINOIS 60025
PHONE 847.657.5300
FAX 847.657.5388

DATE: OCTOBER 13, 1999

PURCHASE ORDER NO. _____

We hereby certify that the SPOTCHECK CLEANER/REMOVER, TYPE SKC-S

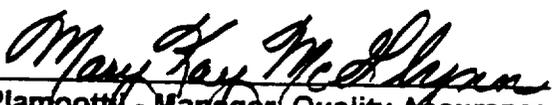
Batch No. 99J01K, supplied meets the requirements of MIL-I-25135E,
and is approved by the U.S. Air Force

When tested according to paragraph 4.4.1.2., Sampling Plan A, the following results
were obtained:

(a) Flash Point (PMCC), 4.5.3	NA	°F
(b) Viscosity, (cs Nominal), 4.5.4	NA	CS@100°F
(c) Developer Fluorescence, 4.5.14	NA	
(d) Water Content, 4.5.21	NA	%
(e) Penetrant Removability, 4.5.17(Standard)	PASS	
(f) Water Tolerance, 4.5.12	NA	%
(g) Fluorescent Brightness of Penetrants, 4.5.7(Standard)	NA	%
(h) Surface Wetting, 4.5.6	NA	
(i) Thermal Stability, 4.5.9	NA	%
(j) Redispersibility, 4.5.13	NA	
(k) Valve Leakage, 4.5.20	PASS	
(l) Net Content, 4.5.19	227-245	GM.

We further certify that this material meets the requirements of
ASTM E 1417, Paragraph 5.1.

MAGNAFLUX ©


M. Plamoottu - Manager, Quality Assurance
Mary Kay McGlynn - Documents Clerk

3424 WEST LAKE AVE
CLARK NEW LONDON 06002
PHONE 847 457 3300
FAX 847 457 3300

DATE: 5/27/93

PURCHASE ORDER NO. 965088A

PROJECT: Spolex

TYPE: SLS ST

96502K

We hereby certify that when tested at the time of manufacture, the above material meets the requirements of and has been tested for sulfur and halogens according to

- (a) ASME Boiler and Pressure Vessel Code, 1983 Edition, Section V, Nondestructive Examination, Article 24, Addenda through Winter 1983 Addendum Article 5 Paragraphs 5-825 and Article 24 as applicable
- (b) ASME Boiler and Pressure Vessel Code, 1986, 1989, & 1992 Edition, Section V, Nondestructive Examination, Article 2, including 1992 Addenda, Paragraph T-625, Addenda through T-640 and Article 24 as applicable
- (c) ASME Boiler and Pressure Vessel Code, 1975 Edition, Section V, Nondestructive Examination, Article 5 Paragraph T-640 and Article 24 as applicable
- (d) ASTM E-192 and ASTM E-165-90, Paragraph 1
- (e) MIL-STD-1515 (FSH), 27 June 1989, Paragraphs 5.3 and 5.3.1, including Addendum, Paragraph 5.1(2), June 1991
- (f) MIL-STD-2 325 (SH), 31 August 1987, Paragraph 4.1.1, including Addendum, Paragraph 4.1.1.1

and test results were obtained in accordance with the requirements of the above specifications. 90% of the material was tested in accordance with the requirements of the above specifications. 35.4% of the material was tested in accordance with the requirements of the above specifications.

MAGNAPLYT

Kim Machmann
Kim Machmann - Manager, Quality Assurance
Kim Machmann - Documents Clerk

Our business number remains 847-457-3300. Most specifications refer to test results obtained in parts of the plant. The above certification gives the results of the test results obtained in the parts of the plant. Use only after the material is obtained in the parts of the plant.

DATE: APRIL 19, 1998

PURCHASE ORDER NO. OP980531

SUBJECT: SPOTCHECK DEVELOPER TYPE: SKD-S2

BATCH No. 98D11K

We hereby certify that when tested at the time of manufacture, the above material:

1. Meets the requirements of and has been tested for sulfur and halogens according to:
 - (a). ASME Boiler and Pressure Vessel Code, 1983 Edition, Section V, Nondestructive Examination, including all Addenda through Winter 1983 Addendum, Article 6 Paragraph T-625 and Article 24 as applicable.
 - (b). ASME Boiler and Pressure Vessel Code, 1986, 1989, & 1992 Edition, Section V, Nondestructive Examination, Article 6, including 1992 Addenda, Paragraph T-625, 1993 Addenda Paragraph T-640 and Article 24 as applicable.
 - (c). ASME Boiler and Pressure Vessel Code, 1995 Edition, Section V, Nondestructive Examination, Article 6, Paragraph T-640 and Article 24 as applicable.
 - (d). ASTM E-165-92, ASTM E-165-94, and ASTM E-165-95, Paragraph 7.1.
 - (e). NAVSEA 250-1500-1 (Rev. 10 June 1979, Rev. 11 May 1983, Rev. 12 December 1987 including ACN 2 Nov. 15, 1990, Rev. 13 September 1993) Paragraphs 12.5.1.1 and 12.5.1.1.1.
 - (f). MIL-STD-271F(SH), 27 June 1986, Paragraphs 5.3 and 5.3.1 including Notice 1, Para. 5.6.1 (6/21/93).
 - (g). MIL-STD-2132B(SH), 31 August 1993, Paragraph 7.1.1, 7.1.2, and 7.1.3 and Appendix C, Paragraph 40.

The following test results were obtained:

Sulfur: 0.0095 wt, % of residue. CL + F : 0.0404 wt, % of residue.
Cleaner residue (see Note 3) NA g/100g. NA g/100 ml.

2. We further certify that this material does not contain mercury as a basic element, and no mercury bearing equipment was used in its manufacture.

MAGNAFLUX ©

Mary Parsons
M. Plamootji - Manager, Quality Assurance
Mary M. Parsons - Document Clerk

- NOTES:
1. Our batch number appears on the bottom of all aerosol cans and on the label of all bulk containers.
 2. Most specifications require test results stated in percent but some require parts per million (ppm). To convert "percent" figures to "parts per million" move the decimal four places to the right.
 3. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.

3624 WEST LAKE AVE
GLENVIEW, ILLINOIS 60025
PHONE 847.657.5300

FAX 847.657.5999 DATE: August 29, 1993

MAGNAFLUX®

PURCHASE ORDER NO. _____

We hereby certify that the Magnetic Particle Inspection Material type

8A Red Powder Batch No. 95H062

meets the requirements of the following specifications:

- A. ASME Boiler and Pressure Vessel Code, Section V, 1989 & 1992 Edition, Nondestructive Examination, including 1992 Addenda, Paragraphs T-723, T-726(A) and Article 25 as applicable.
- B. ASTM E-709-95, Paragraphs 8.1, 8.2, and 8.3.
- C. NAVSEA 250-1500-1, (Rev. 10 June 1979, Rev. 11 May 1983, and Rev. 12 December 1987 including ACN 2 Nov. 15, 1990 & Rev. 13 September 1993) Paragraph 12.4.1.6.
- D. ASTM E 1444-93, Paragraph 5.8.1.
- E. MIL-STD-271F(SH), 27 June 1986, Paragraphs 4.2.7, 4.3.2.3, and 4.3.3.1, including Notice 1, 21 June 1993.
- F. MIL-STD-2132B(SH), 31 August 1993, Paragraph 6.1.3.

We further certify that this material does not contain mercury as a basic element and no mercury bearing equipment was used in its manufacture.

Batch numbers appear on labels of bulk containers.

MAGNAFLUX ©

Kim Maschmann
M. Plamootil - Manager, Quality Assurance
Kim Maschmann - Documents Clerk

Form No. 1565A R-6/95

PHONE 847.657.5300

FAX 847.657.5388

DATE: August 5, 1996

PURCHASE ORDER NO. _____

We hereby certify that the Magnetic Particle Inspection Material type

14AM Prepared Magnaglo Bath . Batch No. 96F02K

meets the requirements of the following specifications:

- A. ASME Boiler and Pressure Vessel Code, Section V, 1995 Edition, Nondestructive Examination, including 1995 Winter Addenda, Paragraph T-752, T-731(B) and Article 25 as applicable.
- B. ASME Boiler and Pressure Vessel Code, Section V, 1989 & 1992 Edition, Nondestructive Examination, including 1992 Addenda, Paragraphs T-723, T-726(B) and Article 25 as applicable.
- C. ASTM E-709-95, Paragraphs 8.1, 8.2, 8.4, 8.4.3, 8.4.4.1, and 8.4.5.
- D. ASTM E 1444-94, Paragraphs 5.8.2, 5.8.2.1, and 5.8.3.
- E. MIL-STD-271F(SH), 27 June 1986, Paragraphs 4.3.2.1, 4.3.2.3, and 4.3.2.4, including Notice 1, 21, June 1993.
- F. MIL-STD-2132B(SH), 31 August 1993, Paragraph 6.1.3, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7.
- G. The flash point of the material is over 200 F when tested by the Pensky-Marten's Closed Cup Method (ASTM D-93).
- H. The vehicle meets the requirements of DOD-F-87935, 12 January 1984 and Amendment 3, 27 February 1987.
- I. The vehicle meets the requirements of AMS 2641, 1 January 1988. The vehicle is classified as Type I according to Paragraph 1.3.

We further certify that this material does not contain mercury as a basic element and no mercury bearing equipment was used in its manufacture.

Batch numbers appear on labels of bulk containers.

MAGNAFLUX ©


M. Plamoottil - Manager, Quality Assurance
Kim Maschmann - Documents Clerk

Form No. 1565C R-5/96

A DIVISION OF ILLINOIS TOOL WORKS, INC.

Instrument SAP No. 102099

Date: 2-26-01

CERTIFICATE OF CALIBRATION

1. Customer WESDYNE
 2. Location WALTZ MILL SITE
 3. Instrument Calibration THERMOMETER
 4. Manufacturer PTC INST.
 5. Model Number 315 F
 6. Serial Number 43619

7. Reason for Submission:
 Calibration
 Operational Failure
 Modifications
 8. Date of Last Calibration N/A (NEW)
 9. Recall Period 12 Months
 10. Recall Date 2-25-02

1. Calibration: Full 2. Temperature Range 0° To 150 °F

1. Instrument Found:
 Within Acceptance Tolerance
 Outside Acceptance Tolerance
 Rejected due to: _____

2. Instrument Returned:
 Within Acceptance Tolerance
 With Limited Calibration
 Rejected due to: _____

Standard Used: SAP 101753 Cal. Date 3-27-00 Cal. Due 3-27-01

TEMPERATURE INDICATOR COMPARISON

		Temperature 25°F to 55°F		Temperature 60°F to 90°F		Temperature 100°F to 150°F	
Control Temperature Indicator							
S/N	<u>SAP 101753</u>	<u>44</u>	°F	<u>74</u>	°F	<u>112</u>	°F
Field Temperature Indicator							
S/N	<u>SAP 102099</u>	<u>44</u>	°F	<u>75</u>	°F	<u>112</u>	°F

CALIBRATION TEST RESULTS

ACCEPTABLE UNACCEPTABLE

Calibrated by: HARRY M. ACKERMAN
 Signature: [Handwritten Signature]

QA REVIEWED
[Handwritten Signature]
 DATE 2-27-01



A Subsidiary of Westinghouse Electric Company LLC

WCAL-015 - FORM 11 - REV 9 - 02/01

Instrument SAP No. 102108

Date 2-26-01

CERTIFICATE OF CALIBRATION

1. Customer WESDYNE
 2. Location WALTZ MILL SITE
 3. Instrument Calibration THERMOMETER
 4. Manufacturer PTC INST.
 5. Model Number 315 F
 6. Serial Number 43880

7. Reason for Submission:
 Calibration
 Operational Failure
 Modifications
 8. Date of Last Calibration N/A (NEW)
 9. Recall Period 12 Months
 10. Recall Date 2-25-02

1. Calibration: Full 2. Temperature Range 0° to 150 °F

1. Instrument Found:
 Within Acceptance Tolerance
 Outside Acceptance Tolerance
 Rejected due to: _____

2. Instrument Returned:
 Within Acceptance Tolerance
 With Limited Calibration
 Rejected due to: _____

Standard Used: SAP 101753 Cal. Date 3-27-00 Cal. Due 3-27-01

TEMPERATURE INDICATOR COMPARISON

	Temperature 25°F to 55°F	Temperature 60°F to 90°F	Temperature 100°F to 150°F
Control Temperature Indicator			
S/N <u>SAP 101753</u>	<u>44</u> °F	<u>74</u> °F	<u>112</u> °F
Field Temperature Indicator			
S/N <u>SAP 102108</u>	<u>44</u> °F	<u>75</u> °F	<u>113</u> °F

CALIBRATION TEST RESULTS

ACCEPTABLE UNACCEPTABLE

Calibrated by: HARRY M. ACKERMAN
 Signature: Harry M. Ackerman

QA REVIEWED

 DATE 3-27-01



A Subsidiary of Westinghouse Electric Company LLC

WCAL-015 - FORM 1 - REV 9-02/01

Cal. Block Certs

AVS APPLIED TEST SYSTEMS, INC.

248 New Castle Road • P.O. Box 1529 • Butler, PA 16001
 Telephone: 412-333-1212 • Telex: 04-6727 ATS BUT

CERTIFICATE OF COMPLIANCE ULTRASONIC TEST BLOCK

ORDER NO. 62860411

CUSTOMER R. L. Holliday Co.

DATE March 21, 1986

525 M. Miller Road

PURCHASE ORDER NO. 62216

Pittsburgh, PA 15226

ITEM	TEST BLOCK	SER. NO.	MATERIAL	TEST BLOCK SPECIFICATION
		796477		
		796478		
		796479		
1	1" Angl. Beam	796480	Alum. Cast. Steel	AS to Aug. 1-1079
		796481		and Note Filed.
		796482		
		796483		
		796484		
		796485		
		796486		
		796487		
		796488		
2	4-Step	796489	Alum. Cast. Steel	AS to Aug. 2-1157.
		796490		
		796491		
		796492		
		796493		
		796494		

These test blocks have been manufactured in accordance with applicable specifications and have been inspected and found to be dimensionally accurate using measuring equipment traceable to the National Bureau of Standards.

Tom Rogers

Quality Control Inspector

HH

PROCEDURE LIST (BOP)

The following procedures were used in the performance of Inservice Examinations at the Farley Nuclear Plant - Unit 1 during the 17th refueling outage. Copies of the procedures are available in the FNP Document Control.

PROCEDURE NUMBER	TITLE	REVISION/TCN
FNP-0-NDE-100.5	LIQUID PENETRANT EXAMINATION (COLOR CONTRAST AND FLUORESCENT)	6
FNP-0-NDE-100.11	MAGNETIC PARTICLE EXAMINATION	4
FNP-0-NDE-100.21	VISUAL EXAMINATION VT-1	1
FNP-0-NDE-100.22	VISUAL EXAMINATION VT-2	5
FNP-0-NDE-100.23	VISUAL EXAMINATION VT-3	5
FNP-0-NDE-100.31	MANUAL ULTRASONIC EXAMINATION OF FULL- PENETRATION WELDS (0.200 TO 6.0 INCHES)	8
FNP-0-NDE-100.34	MANUAL ULTRASONIC EXAMINATION OF WELDS IN VESSELS	6
FNP-0-NDE-100.35	ULTRASONIC THICKNESS EXAMINATION PROCEDURE	1
FNP-0-NDE-100.38	MANUAL ULTRASONIC EXAMINATION OF NOZZLE INNER RADIUS	2
FNP-0-NDE-100.39	MANUAL ULTRASONIC EXAMINATION OF BOLTS AND STUDS GREATER THAN 2 INCHES IN DIAMETER	4

I

NO EXAMINATIONS SCHEDULED THIS OUTAGE

J

Class 1

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number E21-WO20007823	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 19, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Chemical and Volume Control System

5.
 (a) Applicable Construction Code: * See sheet 2 19 Edition Addenda Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Fill Port Plug	Grinnell	Unknown	N/A	P.O. FNP-222	1977	Replaced	No
							No
Fill Port Plug	Grinnell	Unknown	N/A	P.O. QP941243	1994	Replacement	No

7. Description Of Work
 Snubber CVCS-R530 was removed from its support by Williams Power Corporation, rebuilt by Wyle Laboratories, and reinstalled by Alabama Power Company. The fill port plug was replaced during the rebuild process as a result of damage during removal. Ref: MIF 01050231

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	Sheet 2 of 2
E21-WO20007823	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed BCM Maintenance Manager Date 12/17/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO. of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/5/01 to 12/19/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward Commissions GA 328 IN
Inspector's Signature National Board, State, Province, and Endorsements

Date 12/19/01

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number B13 - WA653356	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date November 1, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Reactor Coolant System

5.
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Winter 1972 Addenda. N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda. N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Safety Valve	Crosby	N56963-01-0005	N/A	P. O. FNP2-2	1975	Replaced	Yes
Safety Valve	Crosby	N56963-01-0004	N/A	P.O. FNP2-2	1975	Replacement	Yes

7. Description of Work
 Pressurizer safety valve Q1B13V0031A was removed and shipped offsite for scheduled testing. A spare valve was installed in its place so that outage schedules could be maintained. Ref: MIF 01048561.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
B13 - WA653356	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)
 The replacement safety valve was previously refurbished by Wyle Laboratories under purchase order QP990921.

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed BC Mann MAINT. MGR. Date 11/17/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON, Rhode Island have inspected the components described in this Owner's Report during the period 10/9/01 to 11/20/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/20/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B13-WO20008597	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 22, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Reactor Coolant System

5.
 (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	23347	N/A	P.O. QP-1299	1981	Replaced	Yes
Hyd. Snubber	Lisega	00614770/102	N/A	P.O. QP010702	2000	Replacement	No

7. Description Of Work
 Snubber SS-2990 was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and was replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF 01048716

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	Sheet 2 of 2
B13-WO20008597	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed *B. Moran* Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/6/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward
 Inspector's Signature

Commissions GA 328 INA
 National Board, State, Province, and Endorsements

Date 11/6/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number E21-WO20008611	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 23, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Chemical & Volume Control System

5.
(a) Applicable Construction Code: * See sheet 2 19 Edition Addenda, Code Case
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	1937	N/A	P.O FNP2-29	1977	Replaced	NO
Load Stud	Grinnell	None	N/A	P.O. FNP-222	1975	Replaced	No
Hyd. Snubber	Lisega	00614770/035	N/A	P.O. QP010702	2000	Replacement	NO
Load Stud	Grinnell	None	N/A	P.O. QP3129	1989	Replacement	No

7. Description Of Work
Snubber SS-5687 was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. The load stud was replaced as a result of damage during snubber removal. Ref: MIF 01048697, 01049934

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure PSI Temperature °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number E21-WO20008611	Sheet 2 of 2
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9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed B. O'Connor Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACILITY MUTUAL INSURANCE CO of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/5/01 to 11/6/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/6/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B13-WO20008754	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 19, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Reactor Coolant System

5.
(a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Pivot Pin	Grinnell	59A	N/A	P.O. QP-1547	1987	Replaced	No
Pivot Pin	Grinnell	59A	N/A	P.O. QP-1547	1987	Replacement	No

7. Description Of Work
Snubber RC-R12B was removed from its support by Williams Power Corporation, rebuilt by Wyle Laboratories and reinstalled by Williams Power Corporation. The pivot pin was replaced as a result of damage during snubber removal. Ref: MIF 01049745

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	
B13-WO20008754	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed Blair Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO. of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/7/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/7/01

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
E21 - W001005802	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

* Pipe restraint was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ repair _____ conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed *B. Moran* Maintenance Manager Date 1/16/02
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON, RHEDE ISLAND have inspected the components described in this Owner's Report during the period 10/23/01 to 1/15/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 INA
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/15/02

Class 2

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number B21 - WO01007592	Sheet 1 of 2
---------------------------------------	---------------------

1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date November 1, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Steam Generator

5.
 (a) Applicable Construction Code: ASME Section III, 19 89 Edition N/A Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Bolt	Vicente Berrizbeita	305	N/A	P. O. QP970783	1999	Replaced	No
Bolt	Vicente Berrizbeita	253	N/A	P. O. QP970783	1999	Replaced	No
Bolt	Vicente Berrizbeita	49	N/A	P. O. QP970783	1999	Replaced	No
Bolt	Vicente Berrizbeita	335	N/A	P. O. QP970783	1999	Replaced	No
Bolt	Vicente Berrizbeita	124	N/A	P. O. QP970783	1999	Replacement	No
Bolt	Vicente Berrizbeita	196	N/A	P. O. QP970783	1999	Replacement	No
Bolt	Vicente Berrizbeita	204	N/A	P. O. QP970783	1999	Replacement	No
Bolt	Vicente Berrizbeita	225	N/A	P. O. QP970783	1999	Replacement	No

7. Description of Work
 Four (4) bolts were damaged during the removal of the handhole cover on steam generator Q1B21H0001C. These four bolts were replaced with four new bolts. Ref: MIF 01050932.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
B21 - WO01007592	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed B. Moore Maintenance Manager Date 12/26/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/19/01 to 1/4/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 IN
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/4/02

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number N11 - WO01006462	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 25, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Main Steam System

5.
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Disc Assembly	Atwood & Morrill	*FNPSN13	N/A	P. O. FNP2-22	1975	Replaced	Yes
Disc Assembly	Atwood & Morrill	*FNPSN3	N/A	P. O. QP000393	2001	Replacement	No

7. Description of Work
 During inspection of Main Steam Isolation Valve Q1N11V0002B (HV3370B), the disc assembly was determined to be in need of replacement. A previously refurbished disc assembly was installed in the valve. Ref: MIF 01048508.
 See note on sheet 2 for explanation of asterisks.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
N11 - WO01006462	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

*These disc assemblies were re-serialized by SNC to improve traceability of individual parts. See the spreadsheet attached to work order 01006462 for a detailed breakdown of manufacturers identification data for each part.

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed *B. M. Moran* Maintenance Manager Date 12/14/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/17/01 to 12/18/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Moran Commissions GA 328 IN
Inspector's Signature National Board, State, Province, and Endorsements

Date 12/18/01

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number N11 - WO01006463	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 25, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Main Steam System

5.
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Disc Assembly	Atwood & Morrill	*FNPSN12	N/A	P. O. FNP-191	1975	Replaced	Yes
Disc Assembly	Atwood & Morrill	*FNPSN10	N/A	P. O. QP990849	2000	Replacement	No

7. Description of Work
 During inspection of Main Steam Isolation Valve Q1N11V0002C (HV3370C), the disc assembly was determined to be in need of replacement. A previously refurbished disc assembly was installed in the valve. Ref: MIF 01048647.
 See note on sheet 2 for explanation of asterisks.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
N11 - WO01006463	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

*These disc assemblies were re-serialized by SNC to improve traceability of individual parts. See the spreadsheet attached to work order 01006463 for a detailed breakdown of manufacturers identification data for each part.

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed *[Signature]* Maintenance Manager Date 12/14/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE Co. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/15/01 to 12/18/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

[Signature] Commissions GA 328 IN
 Inspector's Signature National Board, State, Province, and Endorsements

Date 12/18/01

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number N11 - W001006464	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 25, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Main Steam System

5.
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda. N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda. N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Disc Assembly	Atwood & Morrill	*FNPSN15	N/A	P. O. 22601	1984	Replaced	No
Disc Assembly	Atwood & Morrill	*FNPSN4	N/A	P. O. QP010569	2001	Replacement	No

7. Description of Work
 During inspection of Main Steam Isolation Valve Q1N11V0001B (HV3369B), the disc assembly was determined to be in need of replacement. A previously refurbished disc assembly was installed in the valve. Ref: MIF 01048726.
 See note on sheet 2 for explanation of asterisks.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
N11 - WO01006464	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

*These disc assemblies were re-serialized by SNC to improve traceability of individual parts. See the spreadsheet attached to work order 01006464 for a detailed breakdown of manufacturers identification data for each part.

Certificate of Compliance

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed *[Signature]* Maintenance Manager Date 12/14/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 12/17/01 to 12/18/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

[Signature] Commissions GA 328 IN
 Inspector's Signature National Board, State, Province, and Endorsements

Date 12/18/01

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number N11 - WO01006466	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 25, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Main Steam System

5.
(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda. N/A Code Case
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda. N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Disc Assembly	Atwood & Morrill	*FNPSN16	N/A	P. O. FNP-191	1975	Replaced	Yes
Disc Assembly	Atwood & Morrill	*FNPSN7	N/A	P. O. QP010569	2001	Replacement	No

7. Description of Work
During inspection of Main Steam Isolation Valve Q1N11V0001C (HV3369C), the disc assembly was determined to be in need of replacement. A previously refurbished disc assembly was installed in the valve. Ref: MIF 01048728.
See note on sheet 2 for explanation of asterisks.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	
N11 - WO01006466	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

*These disc assemblies were re-serialized by SNC to improve traceability of individual parts. See the spreadsheet attached to work order 01006466 for a detailed breakdown of manufacturers identification data for each part.

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed *B. M. Munn* Maintenance Manager Date 12/14/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/17/01 to 12/18/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Shirley G. Ward
Inspector's Signature

Commissions GA 328 IN
National Board, State, Province, and Endorsements

Date 12/18/01

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number F16 - WO01006955	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 29, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Storage Equipment

5.
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Stud (3)	Texas Bolt Company	CD51	N/A	P. O. 7047-Q-62730	1974	Replaced	No
Nut (6)	Texas Bolt Company	CD60	N/A	P. O. 7047-Q-62730	1974	Replaced	No
Stud (3)	Nova Machine Products	96469	N/A	P. O. QP980481	1998	Replacement	No
Nut (6)	Texas Bolt Company	CD60	N/A	P. O. 7047-Q-62730	1974	Replacement	No

7. Description of Work
 A heavy boron build-up was noted on the 16" piping connection from the Refueling Water Storage Tank (QIF16T0501) to the Safety Injection System during a VT-2 examination. As a result, a VT-3 examination was performed on the bolting and flanges. Three (3) studs failed the VT-3 examination due to corrosion in the thread area. These three studs, as well as six (6) nuts, were replaced. Ref: MIF 01051281.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number

FI6 - WO01006955

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

Certificate of Compliance

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed B. Mann Maintenance Manager Date 12/17/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/24/01 to 12/21/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward
Inspector's Signature

Commissions GA 328 IN
National Board, State, Province, and Endorsements

Date 12/21/01

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number N11 - WO01006465	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 25, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Main Steam System

5.
(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda, N/A Code Case
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Disc Assembly	Atwood & Morrill	*FNPSN14	N/A	P. O. 38053	1985	Replaced	No
Disc Assembly	Atwood & Morrill	*FNPSN8	N/A	P. O. QP010569	2001	Replacement	No

7. Description of Work
During inspection of Main Steam Isolation Valve Q1N11V0001A (HV3369A), the disc assembly was determined to be in need of replacement. A previously refurbished disc assembly was installed in the valve. Ref: MIF 01048727.
See note on sheet 2 for explanation of asterisks.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number

N11 - WO01006465

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

*These disc assemblies were re-serialized by SNC to improve traceability of individual parts. See the spreadsheet attached to work order 01006465 for a detailed breakdown of manufacturers identification data for each part.

Certificate of Compliance

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed J. Moore Maintenance Manager Date 12/19/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY OF JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/16/01 to 1/7/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward
 Inspector's Signature

Commissions

GA 322

INA

National Board, State, Province, and Endorsements

Date 1/7/02

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number N11 - W001006461	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 25, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Main Steam System

5.
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Disc Assembly	Atwood & Morrill	*FNPSN11	N/A	P. O. 22602	1985	Replaced	No
Disc Assembly	Atwood & Morrill	*FNPSN9	N/A	P. O. QP991099	2000	Replacement	No

7. Description of Work
 During inspection of Main Steam Isolation Valve Q1N11V0002A (HV3370A), the disc assembly was determined to be in need of replacement. A previously refurbished disc assembly was installed in the valve. Ref: MIF 01048596.
 See note on sheet 2 for explanation of asterisks.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	
N11 - WO01006461	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

*These disc assemblies were re-serialized by SNC to improve traceability of individual parts. See the spreadsheet attached to work order 01006461 for a detailed breakdown of manufacturers identification data for each part.

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed B. M. M. Maintenance Manager Date 12/14/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/13/01 to 11/7/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 INA
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/7/02

Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

As Required By The Provisions Of The ASME Code Section XI

		Job Number E21-WO20008603	Sheet 1 of 2				
1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1					
		Date October 22, 2001					
3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A					
		Authorization Number N/A					
		Expiration Date N/A					
4. Identification Of System Chemical and Volume Control System							
5. (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda. _____ Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements , 19 <u>89</u> Edition <u>N/A</u> Addenda. <u>N/A</u> Code Case							
6. Identification Of Components Repaired Or Replaced and Replacement Components :							
Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	360	N/A	P.O. FNP2-29	1976	Replaced	No
Hyd. Snubber	Lisega	00614770/085	N/A	P.O. QP010702	2000	Replacement	No
7. Description Of Work Snubber SS-4934 was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF 01048712							
8. Test Conducted <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Normal Operating Pressure <input checked="" type="checkbox"/> None <input type="checkbox"/> Other Pressure _____ PSI Temperature _____ °F							

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	Sheet 2 of 2
E21-WO20008603	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed B. Munn Maintenance Manager Date 12/26/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/5/01 to 1/2/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward Commissions GA 328 INA
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/2/02

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	
E13-WO20008585	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed B. Moore Maintenance Manager Date 12/26/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/5/01 to 1/2/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward Commissions GA 328 INA
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/2/02

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number N11-WO20007828	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 22, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Main Steam System

5.
(a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Cylinder Tubing	Grinnell	TD	N/A	P.O. QP3812	1990	Replaced	No
Cylinder Tubing	Grinnell	TD	N/A	P.O. QP3812	1990	Replacement	No

7. Description Of Work
Snubber MS-R216 was removed from its support by Williams Power Corporation, rebuilt by Wyle Laboratories and reinstalled by Williams Power Corporation. The cylinder tubing was replaced during the rebuilding process due to corrosion. Ref: MIF 01049433

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number	Sheet 2 of 2
N11-WO20007828	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed *B. M. M.* Maintenance Manager Date 12/27/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE Co. of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 1/3/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles J. Ward
Inspector's Signature

Commissions GA 328 INA
National Board, State, Province, and Endorsements

Date 1/3/02

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number E13-WO20008584	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 20, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Containment Spray System

5.
(a) Applicable Construction Code: * See sheet 2 19 Edition Addenda, Code Case
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	1108	N/A	P.O. FNP-222	1976	Replaced	No
Mech. Snubber	Pacific Scientific	2803	N/A	P.O. FNP2-29	1977	Replacement	No

7. Description Of Work
Snubber CSR260A was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with PSA 1 mechanical snubber by Williams Power Corporation due to time limitations. Ref: MIF 01049761

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure PSI Temperature °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	Sheet 2 of 2
E13-WO20008584	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed B/Moon Maintenance Manager Date 12/27/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 1/3/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 1/3/02

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number E21 - WO20004659	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 30, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Chemical And Volume Control System

5.
 (a) Applicable Construction Code: ASME Section III, 19 68 Edition Winter 1970 Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Plug	Copes-Vulcan	90-4	N/A	P. O. QP-4130	1990	Replaced	No
Plug	Copes-Vulcan	97-1	N/A	P. O. QP970530	1997	Replacement	No

7. Description of Work
 Valve Q1E21V0332 (HCV0186) was reported to be oscillating causing the seal injection flows to swing. Upon investigation, it was discovered that the plug had galled to the cage. A new plug assembly (plug, stem, cage & roll pin) was installed in the valve. Ref: MIF 01042020.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
E21 - WO20004659	
9. Remarks (Applicable Manufacturer's Data Reports to be attached)	
The replaced plug was installed under work order M97002093.	

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed *B. Mann* Maintenance Manager Date 11/21/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/23/01 to 11/21/01 , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

 Charles E. Ward Commissions GA 328 INA
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/21/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B21-WO20008588	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 20, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
 Steam Generator

5.
 (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	37944	N/A	P.O. QP-1470	1987	Replaced	No
Hyd. Snubber	Liseqa	00614770/083	N/A	P.O. QP010702	2000	Replacement	No

7. Description Of Work
 Snubber FT426B was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and was replaced with a Liseqa hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF 01048699

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	
B21-WO20008588	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed BC Mon Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/6/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward
 Inspector's Signature

Commissions GA 328 INA
 National Board, State, Province, and Endorsements

Date 11/6/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B21-WO20008593	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 18, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Steam Generator

5.
 (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	37954	N/A	P.O. QP-1470	1987	Replaced	NO
Hyd. Snubber	Lisega	00614770/076	N/A	P.O. QP010702	2000	Replacement	NO

7. Description Of Work
 Snubber FT435B was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF 01048720

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	Sheet 2 of 2
B21-WO20008593	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed B. Mon Maintenance Manager Date 4/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE CO of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/5/01 to 11/5/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/5/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number G24-WO20008612	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 12, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Steam Generator Blowdown System

5.
 (a) Applicable Construction Code: * See sheet 2 19 Edition Addenda, Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	321	N/A	P.O. FNP-222	1976	Replaced	NO
Hyd. Snubber	Lisega	97614260/36	N/A	P.O. QP010128	2000	Replacement	NO

7. Description Of Work
 Snubber SS-5836A was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF-01048894

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	G24-WO20008612	Sheet 2 of 2
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9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed  Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/5/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.


 Inspector's Signature

Commissions GA 328 INA
 National Board, State, Province, and Endorsements

Date 11/5/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B21-WO20008590	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 20, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Steam Generator

5.
 (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	37945	N/A	P.O. QP-1470	1987	Replaced	No
Load Stud	Grinnell	None	N/A	P.O. FNP-222	1977	Replaced	No
Hyd. Snubber	Lisega	00614770/078	N/A	P.O. QP010702	2000	Replacement	No
Load Stud	Grinnell	None	N/A	P.O. QP3129	1988	Replacement	No

7. Description Of Work
 Snubber FT424B was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. The load stud was replaced as a result of being damage during removal. Ref: MIF 01048696, 01050350

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	Sheet 2 of 2
B21-WO20008590	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed BCM Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/5/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/5/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number E21-WO20008600	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 20, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Chemical And Volume Control System

5.
 (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	19711	N/A	P.O. QP-1299	1983	Replaced	Yes
Hyd. Snubber	Lisega	00614770/082	N/A	P.O. QP010702	2000	Replacement	No

7. Description Of Work
 Snubber SS-4133E was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF 01048705

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	Sheet 2 of 2
E21-WO20008600	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed *B. Mann* Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/5/01 to 11/5/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles J. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/5/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B21-WO20008591	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 18, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Steam Generator

5.
 (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	37946	N/A	P.O. QP-1470	1987	Replaced	NO
Hyd. Snubber	Lisega	00614770/077	N/A	P.O. QP010702	2000	Replacement	NO

7. Description Of Work
 Snubber FT435A was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and was replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled program. Ref: MIF 01048722

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	Sheet 2 of 2
B21-WO20008591	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed B. Moran Maintenance Manager Date 11/3/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, Rhode ISLAND have inspected the components described in this Owner's Report during the period 10/5/01 to 11/6/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 INA
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/6/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B21-WO20008586	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 19, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
 Steam Generator

5.
 (a) Applicable Construction Code: * See sheet 2 19 Edition Addenda, Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech Snubber	Pacific Scientific	3083	N/A	P.O. FNP-222	1977	Replaced	No
Hyd. Snubber	Lisega	00614770/079	N/A	P.O. QP010702	2000	Replacement	No

7. Description Of Work
 Snubber FT426A was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF 01048701

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure PSI Temperature °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	
B21-WO20008586	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed [Signature] Maintenance Manager Date 10/25/01

Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/6/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

[Signature] Commissions GA 328 INA

Inspector's Signature National Board, State, Province, and Endorsements

Date 11/6/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number E21-WO20008624	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 20, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
 Chemical & Volume Control System

5.
 (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Hyd. Snubber	Lisega	61287/68	N/A	P.O. QP950277	1993	Replaced	No
Hyd. Snubber	Lisega	00614800/048	N/A	P.O. QP010926	2000	Replacement	No

7. Description Of Work
 Snubber SS-4640 was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with a Lisega hydraulic snubber by Williams Power Corporation due to a broken reservoir snap ring on the original snubber. Ref: MIF 01050899

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	Sheet 2 of 2
E21-WO20008624	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed B. Munn Maintenance Manager Date 4/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/5/01 to 11/7/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/7/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B21-WO20008592	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 18, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Steam Generator

5.
 (a) Applicable Construction Code: * See sheet 2 19 Edition Addenda, Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	23759	N/A	P.O. QP-1299	1982	Replaced	Yes
Hyd. Snubber	Liseqa	00614770/097	N/A	P.O. QP010702	2000	Replacement	No

7. Description Of Work
 Snubber FT-434A was removed from its support by Williams Power Corportion, tested by Wyle Laboratories and was replaced with a Liseqa hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF 01048721

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure PSI Temperature °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	
B21-WO20008592	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A _____ Expiration Date _____ N/A

Signed BC Mon Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/6/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Wood
 Inspector's Signature

Commissions GA 328 INA
 National Board, State, Province, and Endorsements

Date 11/6/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B21-WO20008589	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 20, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
 Steam Generator

5.
 (a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	1987	N/A	P.O. FNP2-29	1977	Replaced	No
Bolt	Unknown	None	N/A	None	N/A	Replaced	No
Hyd. Snubber	Liseqa	00614770/084	N/A	P.O. QP010702	2000	Replacement	No
Load Stud	Grinnell	None	N/A	P.O. QP3129	1988	Replacement	No

7. Description Of Work
 Snubber FT425B was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and replaced with Liseqa hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Load stud used to replace a bolt that was inadvertently used in previous maintenance activities. Ref: MIF 01048698, 01050349

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	Sheet 2 of 2
B21-WO20008589	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed *B. Moore* Maintenance Manager Date 6/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACILITY MUTUAL INSURANCE CO. of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/6/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles A. Ward Commissions GA 322 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/6/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number E21-WO20008599	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 17, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Safety Injection System

5.
 (a) Applicable Construction Code: * See sheet 2 19 Edition Addenda, Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	37957	N/A	P.O. QP-1470	1987	Replaced	NO
Hyd. Snubber	Liseга	00614770/101	N/A	P.O. QP101702	2000	Replacement	NO

7. Description Of Work
 Snubber SS-4104 was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and was replaced with a Liseга hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Ref: MIF 01048715

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure PSI Temperature °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	
E21-WO20008599	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed *B. Munn* Maintenance Manager Date 11/3/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO of JOHNSTON Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/6/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward
Inspector's Signature

Commissions GA 328 INA
National Board, State, Province, and Endorsements

Date 11/6/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number E21-WO20008678	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 19, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Chemical & Volume Control System

5.
(a) Applicable Construction Code: * See sheet 2 19 Edition Addenda, Code Case
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Fill Port Plug	Grinnell	Unknown	N/A	P.O. FNP-222	1977	Replaced	No
Fill Port Plug	Grinnell	093L	N/A	P.O. QP950866	1995	Replacement	No

7. Description Of Work
Snubber CVCS-R549 was removed from its support by Williams Power Corporation, rebuilt by Wyle Labortories and reinstalled by Williams Power Corporation. The fill port plug was replaced during the rebuilding process as a result of damage during removal. Ref: MIF 01050197

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure PSI Temperature °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	Sheet 2 of 2
E21-WO20008678	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed B/M Maintenance Manager Date 4/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 11/7/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/7/01

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number E21-WO20008558	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Al. 36319	Unit FNP 1
		Date October 23, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Safety Injection System

5.
 (a) Applicable Construction Code: * See sheet 2 19 Edition Addenda, Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Connecting Tube	Grinnell	None	N/A	P.O. No. FNP-222	1977	Replaced	No
Connecting Tube	Grinnell	None	N/A	P.O. No. 23613	1984	Replacement	No

7. Description Of Work
 Snubber SIR123 was removed from its support by Williams Power Corp., tested and rebuilt by Wyle Laboratories, and reinstalled by Williams Power Corp. The connecting tube was replaced during rebuild. Ref: MIF 01050475.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure PSI Temperature °F

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number	Sheet 2 of 2
E21-WO20008558	

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed *B. Munn* Maintenance Manager Date 11/3/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE Co of JOHNSTON RHODE ISLAND have inspected the components described in this Owner's Report during the period 10/5/01 to 11/7/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles E. Ward Commissions GA 328 INA
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/7/01

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number E11 - WA655091	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 30, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Residual Heat Removal System

5.
 (a) Applicable Construction Code: ASME Section III, 19 86 Edition N/A Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Mechanical Seal	Ingersoll-Dresser Pump Company	93P-10795	914	P. O. QP931439	1993	Replaced	Yes
Mechanical Seal	Ingersoll-Dresser Pump Company	131018-1A	1113	P. O. QP980695	1998	Replacement	Yes

7. Description of Work
 The mechanical seal of the 1A Residual Heat Removal Pump (Q1E11P0001A) was scheduled to be replaced based on the operating hours of the pump. The seal assembly was removed from the pump and a new assembly was installed. Ref: MIF 01049918.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
E11 - WA655091	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)
 The replaced seal assembly was installed under PCN S91-1-7661 and work order S60004.

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A _____ Expiration Date _____ N/A

Signed *B. Moore* Maintenance Manager Date 12/17/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/15/01 to 1/8/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward
 Inspector's Signature

Commissions GA 328 INA
 National Board, State, Province, and Endorsements

Date 1/8/02

Form NIS-2 Owner's Report For Repairs Or Replacements

RType : L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B21-WO20008587	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date October 20, 2001

3. Work Performed By Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System
Steam Generator

5.
(a) Applicable Construction Code: _____ * See sheet 2 _____ 19 _____ Edition _____ Addenda, _____ Code Case
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components :

Name Of Component	Name Of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes / No)
Mech. Snubber	Pacific Scientific	37943	N/A	P.O. QP-1470	1987	Replaced	No
Bolt	Unknown	None	N/a	None	N/A	Replaced	No
Hyd. Snubber	Lisega	00614770/065	N/A	P.O. QP010128	2000	Replacement	No
Load Stud	Grinnell	None	N/A	P.O. QP3129	1989	Replacement	No

7. Description Of Work
Snubber FT424A was removed from its support by Williams Power Corporation, tested by Wyle Laboratories and was replaced with a Lisega hydraulic snubber by Williams Power Corporation as part of a scheduled upgrade program. Load stud used to replace a bolt that was inadvertently used in previous maintenance activities. Ref: MIF 01048700, 01050353

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType : L1.52

Job Number	
B21-WO20008587	Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

Certificate of Compliance

We certify that the statements made in this report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed _____ *BUMon* Maintenance Manager Date *12/26/01*
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACILITY MUTUAL INSURANCE CO. of Johnston Rhode Island have inspected the components described in this Owner's Report during the period 10/5/01 to 1/8/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward
Inspector's Signature

Commissions GA 328 INA
National Board, State, Province, and Endorsements

Date 1/8/02

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number G24 - WO01007622	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 31, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
 Steam Generator Blowdown System

5.
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Stud (1)	T & T Enterprises	21682	N/A	P. O. QP991144	1999	Replaced	No
Nut (2)	Cardinal Industrial Products	H2	N/A	P. O. QP991144	1993	Replaced	No
Stud (1)	Texas Bolt Company	72521	N/A	P. O. QP000766	2000	Replacement	No
Nut (2)	Mackson, Incorporated	S44018	N/A	P. O. QP010884	2001	Replacement	No

7. Description of Work
 During the removal of the Steam Generator Blowdown spool piece for Steam Generator Q1B21H0001A, one (1) pipe flange stud was damaged. One (1) new stud and two (2) new nuts were installed. Ref: MIF 01050858.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number	Sheet 2 of 2
G24 - WO01007622	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

The replaced stud and nut were installed by Bechtel during Steam Generator Replacement (SGR) activities.

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A _____ Expiration Date _____ N/A

Signed B. Munn Maintenance Manager Date 12/26/01
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/22/01 to 1/8/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 INA
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/8/02

Class MC

Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

Job Number F15 - WA655280	Sheet 1 of 2
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1. Owner Southern Nuclear Operating Company 40 Inverness Center Parkway Birmingham, Alabama 35242 (as agent for Alabama Power Company)	2. Plant Farley Nuclear Plant Highway 95 South Columbia, Alabama 36319	Unit FNP 1
		Date October 29, 2001

3. Work performed by Name : <u>Southern Nuclear Operating Company Maintenance Department</u> Address : <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A
	Authorization Number N/A
	Expiration Date N/A

4. Identification of System
Refueling Equipment

5.
 (a) Applicable Construction Code: ASME Section III, 19 68 Edition N/A Addenda, N/A Code Case
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes / No)
Cap Screw (Bolt)	Westinghouse	UNKNOWN	N/A	P. O. FNP-2	1972	Replaced	No
Cap Screw (Bolt)	Nova Machine Products	M98H1B-12	N/A	P. O. QP000601	2000	Replacement	No

7. Description of Work
 The blind flange was removed from the Fuel Transfer Tube Assembly (Q1F15K0003) for routine refueling activities. Prior to re-installation of the flange, ten (10) of the cap screws were discovered to be in need of replacement. Ten (10) new cap screws were installed when the blind flange was re-installed. Ref: MIF 01051546.

8. Test Conducted
 Hydrostatic Pneumatic Normal Operating Pressure None Other (Appendix J)
 Pressure _____ PSI Temperature _____ °F

Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

Job Number	Sheet 2 of 2
FI5 - WA655280	

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

Certificate of Compliance

We certify that the statements made in the report are correct and this _____ replacement _____ conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp _____ N/A

Certificate of Authorization Number _____ N/A Expiration Date _____ N/A

Signed B. Mon Maintenance Manager Date 12/07/01
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by FACTORY MUTUAL INSURANCE COMPANY of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 10/27/01 to 12/21/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Charles G. Ward Commissions GA 328 IN
 Inspector's Signature National Board, State, Province, and Endorsements

Date 12/21/01

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