INSERVICE INSPECTION NINETY-DAY REPORT

BEAVER VALLEY POWER STATION UNIT 1

Outage 7 Year 1989

Inspection Term from 2/27/88 to 12/?1/89

INSERVICE INSPECTION NINETY-DAY REPORT

BEAVER VALLEY POWER STATION UNIT 1

Outage 7 Year 1989

Inspection Term from 2/27/88 to 12/21/89

Issue date: 3/9/90

Owner: Duquesne Light Company
One Oxford Center
301 Grant Street
Pittsburgh, Pennsylvania 15279

NRC Docket Number: 50-334

Reactor Supplier: Westinghouse Electric Corporation
Commercial Service Date: September 30, 1976

Prepared by: _____ Date: 2/7/90

Reviewed by: _____ Date: 2/9/90

Approved by: _____ Date: 2/13/90

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Duquesne Light Company, One Oxford Centre, Pittsburgh, PA 15279
(Name and Address of Owner)

2. Plant Beaver Valley Power Station, P.O. Box 4, Shippingport, PA 15077
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) 26-07000*

5. Commercial Service Date 9/30/76 6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering	69103	B105642	21011
Reactor Vessel Closure Head	Combustion Engineering	69203	N/A	21011
Pressurizer	Westinghouse	1311	434676	68-50
Steam Generators	Westinghouse			
'A' Loop		1301	434597	68-45
'B' Loop		1302	434598	68-46
'C' Loop		1303	434599	68-47
'A' Reactor Coolant Pump	Westinghouse	1-618J931G01	N/A	N/A
Reactor Coolant Piping	S.W. Fabricating	N/A	N/A	N/A
Auxiliary Piping Systems	Schneider Power Corp.	N/A	N/A	N/A
'A' Residual Heat Exchanger	Joseph Oat & Sons	1832-1	434682	368
'B' Residual Heat Exchanger		1832-2	434683	369
Boron Injection Tank	Struthers Wells Corp.	N/A	434783	1374
Regenerative Heat Exchanger	Joseph Oat & Sons	1831-10	434686	438
Non-Regenerative Heat Exchanger	Joseph Oat & Sons	1830-1	434718	361
Seal Water Return Filter	AMF, Cuno	102	434723	2615

* Designates account number of arrangement with Authorized Inspection Agency to provide inspection services.

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

VOID, See Page 3 of 3

FORM NIS-1 (Back)

8. Examination Dates _____ to _____ 9. Inspection Interval from _____ to _____

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

11. Abstract of Conditions Noted

12. Abstract of Corrective Measures Recommended and Taken

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) _____ Expiration Date _____

Date _____ 19 ____ Signed _____ By _____
Owner

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 _____ and employed by _____ of _____ have inspected the components described in this Owner's Report during the period _____ to _____, 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 a loss of any kind arising from or connected with this inspection.

[illegible] Commissions [illegible]
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/9 19 86

(12/82)

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner Duquesne Light Company, One Oxford Centre, Pittsburgh, PA 15279
(Name and Address of Owner)

2. Plant Beaver Valley Power Station, P.O. Box 4, Shippingport, PA 15077
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) 26-05000*

5. Commercial Service Date 9/30/76 6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
'1A' Recirculation Spray Pump	Bingham-Willamette Co.	290594	N/A	N/A
Component Cooling Surge Tank	PX Engineering	N/A	N/A	N/A
'A' Residual Heat Removal Pump	Ingersoll Rand	1170-20	N/A	N/A
Excess Letoown Heat Exchanger	Atlas Manufacturing	1308	N/A	1127
Valves MOV-RC 535, 536, 537		88418/3(MOD#)	N/A	N/A
Valves PCV-RC-455A, 455B	Fisher Governor	5787946 5787947	N/A	N/A
Valve PCV-RV-456	Masoneilan	H26693-5-3	N/A	N/A
Valve RV-RC-551A	Target Rock	69C(MOD#)	N/A	N/A
Valve MOV-RC-585	Rockwell	7517(MOD#)	N/A	N/A
Valve MOV-RH-701	Copes/Vulcan	14G448SER(MOD#)	N/A	N/A
Valves SI-48,49,51,52,53	Anchor/Darling	S350W(MOD#)	N/A	N/A
Valves SI-10, 11, 12,15,20,23	Velan	78704(MOD#)	N/A	N/A
Valve SI-84	Velan	78409(MOD#)	N/A	N/A

* Designates account number of arrangement with Authorized Inspection Agency to provide inspection services.

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

8. Examination Dates 2/27/88 to 12/21/89 9. Inspection Interval from 11/21/87 to 11/21/97

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

See Appendices I, II, and III

11. Abstract of Conditions Noted

See Text

12. Abstract of Corrective Measures Recommended and Taken

See Appendix IV

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) 26-05000 Expiration Date N/A

Date 2/13 19 90 Signed Duquesne Light company By T B Noonan
Owner

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 _____ and employed by Ashworth Mutual of Warren PA have inspected the components described in this Owner's Report during the period _____ to _____, 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 a loss of any kind arising from or connected with this inspection.

W Louis P or Smith Commissions NB 2441, PA 4266
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/9 19 90

(12/82)

Outage Summary

During the Seventh Refueling Outage (7R) at the Beaver Valley Power Station, Unit 1, Inservice Inspection (ISI) exams were performed on Class 1, 2, and 3 components. This was the first outage in the second ten year interval.

The exams were based on ASME Section XI, 1983 Edition through the Summer 1983 Addenda, using Code Case N-408 for Class 2 piping welds.

ASME XI Exams

1. Six hundred (600) Class 1 exams were performed and are divided into four groups as follows:

   a. Welds (piping and vessels)
      - Ultrasonic Exams - 68
      - Penetrant Exams - 120
      - Magnetic Particle - 1

   b. Bolting
      - Ultrasonic Exams - 19
      - Magnetic Particle - 38
      - Visual Exams - 269

   c. Supports
      - Visual Exams - 76

   d. Nine (9) visual exams were performed on vessel and valve interiors.

2. Two hundred, ninety (290) Class 2 exams were performed and are divided into three groups as follows:

   a. Welds (piping, pumps, and vessels)
      - Ultrasonic Exams - 39
      - Penetrant Exams - 46
      - Magnetic Particle Exams - 24
      - Visual Exams - 16

   b. Bolting
      - Ultrasonic Exams - 5

   c. Supports
      - Visual Exams - 160

3. One hundred, twenty-seven (127) visual exams of Class 3 supports were performed and divided into two groups as follows:

   a. Supports
      - Visual Exams - 58

   b. Attachments
      - Visual Exams - 69

The ASME XI exams were performed by Duquesne Light Company and EBASCO NDE Technicians. These exams are summarized below and listed in full in Appendices I through III.

Appendix I compiles those exams that have been credited towards fulfilling the Ten Year Plan requirements. Appendix II lists exams associated with I.E. Bulletins 88-11 and 88-08. Appendix III identifies baseline exams.

Reactor Vessel Examination

During the outage, the Westinghouse/Dynacon Mini-Scanner was used to remotely perform automated ultrasonic examination of three (3) outlet nozzle-to-shell welds from the nozzle bores, nozzle inner radius areas, nozzle-to-safe-end welds and the safe-end to pipe butt welds. Additionally, 60% (225°) of the flange to shell weld (from the flange mating surface) was ultrasonically examined using manual techniques.

These areas, with the exception of the flange weld, were examined using the Ultrasonic Data Recording and Processing System (UDRPS) and meet or exceed the requirements pursuant to Section XI of the ASME B&PV Code 1983 Edition Summer 83 Addenda, and USNRC Reg. Guide 1.150.

No recordable indications were observed in the data obtained, but the data from the safe-end welds indicated a substantial I.D. surface evaluation change (i.e. counterbore) over the extended scanning area. This change caused a deviation from the calibration set-up including shifts in the calibrated sweep range and the actual refracted angle in the material. Manual O.D. ultrasonic exams were performed to supplement the intial I.D. exams. No indications were recorded.

Visual examination of the three (3) outlet nozzles interiors (up to the safe-end to pipe weld), all accessible areas of the upper internals and a general scan of the lower core barrel resulted in no recordable indications.

Instrumented Inspection Technique Testing

During August 1989 and continuing through 7R, the Instrumented Inspection Technique (IIT) and/or Acoustic Emission (AE) method was applied to several plant systems as an approved inspection alternative to hydrostatic testing. This alternative was approved for use at BVPS Unit 1 by the NRC in D. McDonald's letter dated May 15, 1986 and H. Askwith to G. Johnson letter dated October 7, 1987. This testing was performed by HAFA International using Duquesne Light procedures.

Safety related piping of portions of the following Unit 1 plant systems was examined using this methodology: (a total of 15 tests were performed on the systems listed below)

Chemical and Volume Control
Safety Injection
Containment Depressurization
Auxiliary Feedwater
River Water

Three 'acoustic only' IIT tests were performed on the Unit 1 'A' and 'C' Feedwater lines to meet the requirements of ASME Section XI, IWA 4400, pressure testing requirements for repair and replacement as an approved inspection alternative. This alternative was approved for use at BVPS Unit 1 by the NRC in P. Tam's letter dated February 29, 1988.

Of the systems tested, no through wall leakage was detected. The system piping met the IIT/AE acceptance criteria. A total of 18 IIT/AE tests were performed.

Pressure Testing

The Class 1 piping System Leakage Test and accompanying VT-2 exam were performed prior to plant start-up. Also, Class 2 and 3 system functional and system leakage tests were performed during the outage on various systems to fulfill the 40-month pressure testing requirement.

Steam Generator Tube Examination

One hundred percent of the in-service tubes were examined in the three generators. Results of the examinations and information on tube plugging are contained in Appendix VI.

I.E. Bulletin 88-08

Appendix II lists the examinations performed in accordance with I.E. Bulletin 88-08, Thermal Stresses in Piping Connected to Reactor Coolant Systems. All UT exams were satisfactory. Penetrant (PT) indications were noted in the base metal of one fitting. These indications were removed by surface conditioning and a supplementary PT exam cleared the indications.

I.E. Bulletin 88-11

The examination of the Pressurizer surge line and associated components was completed this outage per I.E. Bulletin 88-11, Pressurizer Surge Line Thermal Stratification (Appendix II). No discernible distress or structural damage of piping or support members was noted. Gap measurements on the Surge Line restraints were obtained and reported to Engineering for disposition.

Baseline Exams

Appendix III identifies those components repaired during this outage that required baseline examination per ASME XI.

Snubber Exams

Snubber exams were performed this outage in accordance with Technical Specification 3/4.7.12. The results of the exams are contained in the Unit 1 7R Snubber Outage Summary Report.

Deficiency Resolution

All recorded deficiencies were evaluated and reported by the Inservice Inspection Department per administrative procedures. Appendix IV is a disposition matrix identifying the rejectable indication found this outage.

NIS-2 Forms

Included as Appendix V are the NIS-2 Forms associated with Repairs and Replacements made at BVPS-2.

APPENDIX I

APPENDIX I - CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER/EXAM CATEGORY: B01.030 B-A			
* ISOMETRIC: E-0001A			
RC-R-1-C-1	SHELL TO FLANGE CIRRCUMFERENTIAL WELD	RV TOOL	
** ASME ITEM NUMBER/EXAM CATEGORY: B01.040 B-A			
* ISOMETRIC: E-0001J			
RC-R-B-C-5	RVCH FLG CIRCUMFERENTIAL WELD	UTB9326	EXAMINED CW FROM STUDHOLE 41 TO 1
		MTB9071	
** ASME ITEM NUMBER/EXAM CATEGORY: B02.011 B-B			
* ISOMETRIC: E-0001P			
RC-TK-1-C-4	CIRCUMFERENTIAL WELD	UTB9298	EXAMINED FROM DATUM 0 TO B
** ASME ITEM NUMBER/EXAM CATEGORY: B02.040 B-B			
* ISOMETRIC: E-0001N			
RC-E-1A-C-1	CIRCUMFERENTIAL WELD	UTB9382	
** ASME ITEM NUMBER/EXAM CATEGORY: B03.090 B-D			
* ISOMETRIC: E-0001B			
RC-R-1-N-18	OUTLET NOZZLE WELD	RV TOOL	
RC-R-1-N-20	OUTLET NOZZLE WELD	RV TOOL	
RC-R-1-N-22	OUTLET NOZZLE WELD	RV TOOL	
** ASME ITEM NUMBER/EXAM CATEGORY: B03.100 B-D			
* ISOMETRIC: E-0001B			
RC-R-1-N-18IR	NOZZLE INSIDE RADIUS	RV TOOL	
RC-R-1-N-20IR	NOZZLE INSIDE RADIUS	RV TOOL	
RC-R-1-N-22IR	NOZZLE INSIDE RADIUS	RV TOOL	
** ASME ITEM NUMBER/EXAM CATEGORY: B03.140 B-D			
* ISOMETRIC: E-0001M			
RC-E-1C-RADIUS(3H)	NOZZLE INSIDE RADIUS	VB91030	
RC-E-1C-RADIUS(3C)	NOZZLE INSIDE RADIUS	VB91029	
** ASME ITEM NUMBER/EXAM CATEGORY: B05.010 B-F			
* ISOMETRIC: L-001A			
DLW-LOOP1-1-F-01	SAFE END WELD	UTB9383	PT INDICATIONS WITHIN CODE. WESTINGHOUSE TOOL
		PTB9199	RESULTS MEANINGLESS. O. D. EXAM RECOMMENDED.

APPENDIX I - CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: L-002A			
DLW-LOOP2-1-F-13	SAFE END WELD	UT89384	WESTINGHOUSE TOOL RESULTS MEANINGLESS. O. D.
		PT89200	EXAM RECOMMENDED.
* ISOMETRIC: L-003A			
DLW-LOOP3-1-F-25	SAFE END WELD	UT89385	WESTINGHOUSE TOOL RESULTS MEANINGLESS. O. D.
		PT89202	EXAM RECOMMENDED.
** ASME ITEM NUMBER/EXAM CATEGORY: B05.040 B-F			
* ISOMETRIC: 0348D			
RC-72-7-E-01	NOZZLE TO SAFE END	UT89293	
		P189221	
* ISOMETRIC: 0350B			
RC-98-1-E-02	NOZZLE TO SAFE END	UT89282	LIMITED EXAM DUE TO NOZZLE TAPER (70% DONE)
		PT89218	
** ASME ITEM NUMBER/EXAM CATEGORY: B05.070 B-F			
* ISOMETRIC: L-002A			
DLW-LOOP2-2-F-16	SAFE END WELD	UT89373	
		PT89280	
DLW-LOOP2-3-F-17	SAFE END WELD	UT89374	
		PT89282	
** ASME ITEM NUMBER/EXAM CATEGORY: B05.130 B-F			
* ISOMETRIC: 0348D			
RC-72-7-F-09	SAFE END WELD	UT89292	
		PT89220	
* ISOMETRIC: 0350B			
RC-98-1-F-01	SAFE END WELD	UT89283	LIMITED EXAM DUE TO SAFE END TAPER (80% DONE)
		PT89217	
		UT89284	
** ASME ITEM NUMBER/EXAM CATEGORY: B06.010 B-G-1			
* ISOMETRIC: E-0001L			
RC-R-1-NUT-1	BOLTING	MT89076	
RC-R-1-NUT-2	BOLTING	MT89076	
RC-R-1-NUT-3	BOLTING	MT89076	
RC-R-1-NUT-4	BOLTING	MT89076	
RC-R-1-NUT-5	BOLTING	MT89076	
RC-R-1-NUT-6	BOLTING	MT89076	

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DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
RC-R-1-NUT-7	BOLTING	MT89076	
RC-R-1-NUT-8	BOLTING	MT89076	
RC-R-1-NUT-9	BOLTING	MT89078	
RC-R-1-NUT-10	BOLTING	MT89078	
RC-R-1-NUT 11	BOLTING	MT89078	
RC-R-1-NUT-12	BOLTING	MT89079	
RC-R-1-NUT-13	BOLTING	MT89079	
RC-R-1-NUT-14	BOLTING	MT89079	
RC-R-1-NUT-15	BOLTING	MT89079	
RC-R-1-NUT-16	BOLTING	MT89079	
RC-R-1-NUT-17	BOLTING	MT89079	
RC-R-1-NUT-18	BOLTING	MT89074	
RC-R-1-NUT-19	BOLTING	MT89074	
** ASME ITEM NUMBER/EXAM CATEGORY: B06.030 B-G-1			
* ISOMETRIC: E-0001L			
RC-R-1-STUD-1	BOLTING	UT89329	
		MT89072	
RC-R-1-STUD-2	BOLTING	UT89329	
		MT89072	
RC-R-1-STUD-3	BOLTING	UT89329	
		MT89072	
RC-R-1-STUD-4	BOLTING	UT89329	
		MT89072	
RC-R-1-STUD-5	BOLTING	UT89329	
		MT89072	
RC-R-1-STUD-6	BOLTING	UT89329	
		MT89072	
RC-R-1-STUD-7	BOLTING	UT89329	
		MT89072	
RC-R-1-STUD-8	BOLTING	UT89329	
		MT89072	
RC-R-1-STUD-9	BOLTING	UT89329	
		MT89073	
RC-R-1-STUD-10	BOLTING	UT89329	
		MT89073	
RC-R-1-STUD-11	BOLTING	UT89330	
		MT89073	
RC-R-1-STUD-12	BOLTING	UT89328	
		MT89077	
RC-R-1-STUD-13	BOLTING	UT89330	
		MT89077	
RC-R-1-STUD-14	BOLTING	UT89330	
		MT89077	
RC-R-1-STUD-15	BOLTING	UT89330	

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DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
RC-R-1-STUD-16	BOLTING	MT89077	
		UT89330	
RC-R-1-STUD-17	BOLTING	MT89077	
		UT89330	
RC-R-1-STUD-18	BOLTING	MT89077	
		UT89328	
RC-R-1-STUD-19	BOLTING	MT89075	
		UT89328	
		MT89075	

** ASME ITEM NUMBER/EXAM CATEGORY: B06.050 B-G-1

* ISOMETRIC: E-0001L

RC-R-1-WASHER-1	BOLTING	VT89940
RC-R-1-WASHER-2	BOLTING	VT89940
RC-R-1-WASHER-3	BOLTING	VT89940
		VT89948
RC-R-1-WASHER-4	BOLTING	VT89940
		VT89948
RC-R-1-WASHER-5	BOLTING	VT89940
RC-R-1-WASHER-6	BOLTING	VT89940
RC-R-1-WASHER-7	BOLTING	VT89940
RC-R-1-WASHER-8	BOLTING	VT89940
RC-R-1-WASHER-9	BOLTING	VT89940
RC-R-1-WASHER-10	BOLTING	VT89940
RC-R-1-WASHER-11	BOLTING	VT89947
RC-R-1-WASHER-12	BOLTING	VT89947
RC-R-1-WASHER-13	BOLTING	VT89947
RC-R-1-WASHER-14	BOLTING	VT89947
RC-R-1-WASHER-15	BOLTING	VT89947
RC-R-1-WASHER-16	BOLTING	VT89947
RC-R-1-WASHER-17	BOLTING	VT89947
RC-R-1-WASHER-18	BOLTING	VT89949
RC-R-1-WASHER-19	BOLTING	VT89949

** ASME ITEM NUMBER/EXAM CATEGORY: B07.020 B-G-2

* ISOMETRIC: E-0001P

RC-TK-1-B-1	BOLTING	VB91011
RC-TK-1-B-2	BOLTING	VB91011
RC-TK-1-B-3	BOLTING	VB91011
RC-TK-1-B-4	BOLTING	VB91011
RC-TK-1-B-5	BOLTING	VB91011
RC-TK-1-B-6	BOLTING	VB91011
RC-TK-1-B-7	BOLTING	VB91011
RC-TK-1-B-8	BOLTING	VB91011

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DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
RC-TK-1-B-9	BOLTING	VB91011	
RC-TK-1-B-10	BOLTING	VB91011	
RC-TK-1-B-11	BOLTING	VB91011	
RC-TK-1-B-12	BOLTING	VB91011	
RC-TK-1-B-13	BOLTING	VB91011	
RC-TK-1-B-14	BOLTING	VB91011	
RC-TK-1-B-15	BOLTING	VB91011	
RC-TK-1-B-16	BOLTING	VB91011	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.050 B-G-2			
* ISOMETRIC: 0246A			
ORIFICE (4)-B-1	BOLTING	VTB9886	
ORIFICE (4)-B-2	BOLTING	VTB9886	
ORIFICE (4)-B-3	BOLTING	VTB9886	
ORIFICE (4)-B-4	BOLTING	VTB9886	
* ISOMETRIC: 0350B			
FLANGE (16)-B-1	BOLTING	VTB9917	
FLANGE (16)-B-2	BOLTING	VTB9917	
FLANGE (16)-B-3	BOLTING	VTB9917	
FLANGE (16)-B-4	BOLTING	VTB9917	
FLANGE (16)-B-5	BOLTING	VTB9917	
FLANGE (16)-B-6	BOLTING	VTB9917	
FLANGE (16)-B-7	BOLTING	VTB9917	
FLANGE (16)-B-8	BOLTING	VTB9917	
FLANGE (16)-B-9	BOLTING	VTB9917	
FLANGE (16)-B-10	BOLTING	VTB9917	
FLANGE (16)-B-11	BOLTING	VTB9917	
FLANGE (16)-B-12	BOLTING	VTB9917	
FLANGE (17)-B-1	BOLTING	VTB9964	
FLANGE (17)-B-2	BOLTING	VTB9964	
FLANGE (17)-B-3	BOLTING	VTB9964	
FLANGE (17)-B-4	BOLTING	VTB9964	
FLANGE (17)-B-5	BOLTING	VTB9964	
FLANGE (17)-B-6	BOLTING	VTB9964	
FLANGE (17)-B-7	BOLTING	VTB9964	
FLANGE (17)-B-8	BOLTING	VTB9964	
FLANGE (17)-B-9	BOLTING	VTB9964	
FLANGE (17)-B-10	BOLTING	VTB9964	
FLANGE (17)-B-11	BOLTING	VTB9964	
FLANGE (17)-B-12	BOLTING	VTB9964	
* ISOMETRIC: 0354A			
ORIFICE (5)-B-1	BOLTING	VTB9889	
ORIFICE (5)-B-2	BOLTING	VTB9889	

APPENDIX I - CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
ORIFICE (5)-B-3	BOLTING	VT89889	
ORIFICE (5)-B-4	BOLTING	VT89889	
ORIFICE (5)-B-5	BOLTING	VT89889	
ORIFICE (5)-B-6	BOLTING	VT89889	
ORIFICE (5)-B-7	BOLTING	VT89889	
ORIFICE (5)-B-8	BOLTING	VT89889	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.060 B-G-2			
* ISOMETRIC: E-0001R			
RC-P-1A-B(S)-1	BOLTING	VT89883	
RC-P-1A-B(S)-2	BOLTING	VT89883	
RC-P-1A-B(S)-3	BOLTING	VT89883	
RC-P-1A-B(S)-4	BOLTING	VT89883	
RC-P-1A-B(S)-5	BOLTING	VT89883	
RC-P-1A-B(S)-6	BOLTING	VT89883	
RC-P-1A-B(S)-7	BOLTING	VT89883	
RC-P-1A-B(S)-8	BOLTING	VT89883	
RC-P-1A-B(S)-9	BOLTING	VT89883	
RC-P-1A-B(S)-10	BOLTING	VT89883	
RC-P-1A-B(S)-11	BOLTING	VT89883	
RC-P-1A-B(S)-12	BOLTING	VT89883	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.070 B-G-2			
* ISOMETRIC: 0348B			
PCV-RC-455A-B-1	VALVE BOLTING	VB91004	
PCV-RC-455A-B-2	VALVE BOLTING	VB91004	
PCV-RC-455A-B-3	VALVE BOLTING	VB91004	
PCV-RC-455A-B-4	VALVE BOLTING	VB91004	UNSAT THREAD ENGAGEMENT ACCEPTED PER EM65008.
		UT89331	UT PER EM95085.
		EM65008	
PCV-RC-455A-B-5	VALVE BOLTING	VB91004	
PCV-RC-455A-B-6	VALVE BOLTING	VB91004	
PCV-RC-455A-B-7	VALVE BOLTING	VB91004	
PCV-RC-455A-B-8	VALVE BOLTING	VB91004	UNSAT THREAD ENGAGEMENT ACCEPTED PER EM65008.
		UT89331	UT PER EM95085.
		EM65008	
* ISOMETRIC: 0348D			
PCV-RC-455B-B-1	VALVE BOLTING	VB91097	
PCV-RC-455B-B-2	VALVE BOLTING	VB91097	
PCV-RC-455B-B-3	VALVE BOLTING	VB91097	
PCV-RC-455B-B-4	VALVE BOLTING	VB91097	
PCV-RC-455B-B-5	VALVE BOLTING	VB91097	
PCV-RC-455B-B-6	VALVE BOLTING	VB91097	

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DUQUESNE LIGHT COMPANY
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
PCV-RC-455B-B-7	VALVE BOLTING	VB91097	
PCV-RC-455B-B-8	VALVE BOLTING	VB91097	
* ISOMETRIC: 035DA			
MOV-RC-535-B-1	VALVE BOLTING	VTB9958	
MOV-RC-535-B-2	VALVE BOLTING	VTB9958	
MOV-RC-535-B-3	VALVE BOLTING	VTB9958	
MOV-RC-535-B-4	VALVE BOLTING	VTB9958	
MOV-RC-535-B-5	VALVE BOLTING	VTB9958	
MOV-RC-535-B-6	VALVE BOLTING	VTB9958	
MOV-RC-535-B-7	VALVE BOLTING	VTB9958	
MOV-RC-535-B-8	VALVE BOLTING	VTB9958	
MOV-RC-535-B-9	VALVE BOLTING	VTB9958	
MOV-RC-535-B-10	VALVE BOLTING	VTB9958	
MOV-RC-535-B-11	VALVE BOLTING	VTB9958	
MOV-RC-535-B-12	VALVE BOLTING	VTB9958	
MOV-RC-536-B-1	VALVE BOLTING	VTB9918	
MOV-RC-536-B-2	VALVE BOLTING	VTB9918	
MOV-RC-536-B-3	VALVE BOLTING	VTB9918	
MOV-RC-536-B-4	VALVE BOLTING	VTB9918 VTB9979	UNSAT DUE TO CORROSION. BASELINE IN PLACE PER VTB9979. SEE ALSO EM95090.
MOV-RC-536-B-5	VALVE BOLTING	VTB9918 VTB9979	UNSAT DUE TO CORROSION. BASELINE IN PLACE PER VTB9979. SEE ALSO EM95090.
MOV-RC-536-B-6	VALVE BOLTING	VTB9918	
MOV-RC-536-B-7	VALVE BOLTING	VTB9918	
MOV-RC-536-B-8	VALVE BOLTING	VTB9918	
MOV-RC-536-B-9	VALVE BOLTING	VTB9918	
MOV-RC-536-B-10	VALVE BOLTING	VTB9918	
MOV-RC-536-B-11	VALVE BOLTING	VTB9918	
MOV-RC-536-B-12	VALVE BOLTING	VTB9918	
PCV-RC-456-B-1	VALVE BOLTING	VTB9919	
PCV-RC-456-B-2	VALVE BOLTING	VTB9919	
PCV-RC-456-B-3	VALVE BOLTING	VTB9919	
PCV-RC-456-B-4	VALVE BOLTING	VTB9919	
PCV-RC-456-B-5	VALVE BOLTING	VTB9919	
PCV-RC-456-B-6	VALVE BOLTING	VTB9919	
PCV-RC-456-B-7	VALVE BOLTING	VTB9919	
PCV-RC-456-B-8	VALVE BOLTING	VTB9919	
MOV-RC-537-B-1	VALVE BOLTING	VTB9954	
MOV-RC-537-B-2	VALVE BOLTING	VTB9954	
MOV-RC-537-B-3	VALVE BOLTING	VTB9954	
MOV-RC-537-B-4	VALVE BOLTING	VTB9954	
MOV-RC-537-B-5	VALVE BOLTING	VTB9954	
MOV-RC-537-B-6	VALVE BOLTING	VTB9954	
MOV-RC-537-B-7	VALVE BOLTING	VTB9954	
MOV-RC-537-B-8	VALVE BOLTING	VTB9954	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
MOV-RC-537-B-9	VALVE BOLTING	VTB9954	
MOV-RC-537-B-10	VALVE BOLTING	VTB9954	
MOV-RC-537-B-11	VALVE BOLTING	VTB9954	
MOV-RC-537-B-12	VALVE BOLTING	VTB9954	
* ISOMETRIC: 0350B			
RV-RC-551A-B-1	VALVE BOLTING	VTB9951	
RV-RC-551A-B-2	VALVE BOLTING	VTB9951	
RV-RC-551A-B-3	VALVE BOLTING	VTB9951	
RV-RC-551A-B-4	VALVE BOLTING	VTB9951	
RV-RC-551A-B-5	VALVE BOLTING	VTB9951	
RV-RC-551A-B-6	VALVE BOLTING	VTB9951	
* ISOMETRIC: 0999A			
MOV-RC-585-B-1	VALVE BOLTING	VB91006	
MOV-RC-585-B-2	VALVE BOLTING	VB91006	
MOV-RC-585-B-3	VALVE BOLTING	VB91006	
MOV-RC-585-B-4	VALVE BOLTING	VB91006	
* ISOMETRIC: 0074A			
MOV-RH-701-B-1	VALVE BOLTING	VB91065	
MOV-RH-701-B-2	VALVE BOLTING	VB91065	
MOV-RH-701-B-3	VALVE BOLTING	VB91065	
MOV-RH-701-B-4	VALVE BOLTING	VB91065	
MOV-RH-701-B-5	VALVE BOLTING	VB91065	
MOV-RH-701-B-6	VALVE BOLTING	VB91065	
MOV-RH-701-B-7	VALVE BOLTING	VB91065	
MOV-RH-701-B-8	VALVE BOLTING	VB91065	
MOV-RH-701-B-9	VALVE BOLTING	VB91065	
MOV-RH-701-B-10	VALVE BOLTING	VB91065	
MOV-RH-701-B-11	VALVE BOLTING	VB91065	
MOV-RH-701-B-12	VALVE BOLTING	VB91065	
MOV-RH-701-B-13	VALVE BOLTING	VB91065	
MOV-RH-701-B-14	VALVE BOLTING	VB91065	
MOV-RH-701-B-15	VALVE BOLTING	VB91065	
MOV-RH-701-B-16	VALVE BOLTING	VB91065	
* ISOMETRIC: 0106A			
1SI-51-B-1	VALVE BOLTING	VTB9885	
1SI-51-B-2	VALVE BOLTING	VTB9885	
1SI-51-B-3	VALVE BOLTING	VTB9885	
1SI-51-B-4	VALVE BOLTING	VTB9885	
1SI-51-B-5	VALVE BOLTING	VTB9885	
1SI-51-B-6	VALVE BOLTING	VTB9885	
1SI-51-B-7	VALVE BOLTING	VTB9885	
1SI-51-B-8	VALVE BOLTING	VTB9885	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
1SI-51-B-9	VALVE BOLTING	VTB9885	
1SI-51-B-10	VALVE BOLTING	VTB9885	
1SI-51-B-11	VALVE BOLTING	VTB9885	
1SI-51-B-12	VALVE BOLTING	VTB9885	
1SI-51-B-13	VALVE BOLTING	VTB9885	
1SI-51-B-14	VALVE BOLTING	VTB9885	
1SI-51-B-15	VALVE BOLTING	VTB9885	
1SI-51-B-16	VALVE BOLTING	VTB9885	INADEQUATE THREAD ENGAGEMENT REWORKED PER
		VTB9980	EM95082.
* ISOMETRIC: 0200C			
1SI-84-B-1	VALVE BOLTING	VTB9914	
1SI-84-B-2	VALVE BOLTING	VTB9914	
1SI-84-B-3	VALVE BOLTING	VTB9914	
1SI-84-B-4	VALVE BOLTING	VTB9914	
1SI-84-B-5	VALVE BOLTING	VTB9914	
1SI-84-B-6	VALVE BOLTING	VTB9914	
1SI-84-B-7	VALVE BOLTING	VTB9914	
1SI-84-B-8	VALVE BOLTING	VTB9914	
1SI-84-B-9	VALVE BOLTING	VTB9914	
1SI-84-B-10	VALVE BOLTING	VTB9914	
1SI-84-B-11	VALVE BOLTING	VTB9914	
1SI-84-B-12	VALVE BOLTING	VTB9914	
* ISOMETRIC: 0222B			
1SI-15-B-1	VALVE BOLTING	VTB9921	
1SI-15-B-2	VALVE BOLTING	VTB9921	
1SI-15-B-3	VALVE BOLTING	VTB9921	
1SI-15-B-4	VALVE BOLTING	VTB9921	
1SI-15-B-5	VALVE BOLTING	VTB9921	
1SI-15-B-6	VALVE BOLTING	VTB9921	
1SI-15-B-7	VALVE BOLTING	VTB9921	
1SI-15-B-8	VALVE BOLTING	VTB9921	
1SI-15-B-9	VALVE BOLTING	VTB9921	
1SI-15-B-10	VALVE BOLTING	VTB9921	
1SI-15-B-11	VALVE BOLTING	VTB9921	
1SI-15-B-12	VALVE BOLTING	VTB9921	
1SI-20-B-1	VALVE BOLTING	VB91064	
1SI-20-B-2	VALVE BOLTING	VB91064	
1SI-20-B-3	VALVE BOLTING	VB91064	
1SI-20-B-4	VALVE BOLTING	VB91064	
1SI-20-B-5	VALVE BOLTING	VB91064	
1SI-20-B-6	VALVE BOLTING	VB91064	
1SI-20-B-7	VALVE BOLTING	VB91064	
1SI-20-B-8	VALVE BOLTING	VB91064	
1SI-20-B-9	VALVE BOLTING	VB91064	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
1SI-20-B-10	VALVE BOLTING	VB91064	
1SI-20-B-11	VALVE BOLTING	VB91064	
1SI-20-B-12	VALVE BOLTING	VB91064	
* ISOMETRIC: 0375C			
1SI-10-B-1	VALVE BOLTING	VT89905	
1SI-10-B-2	VALVE BOLTING	VT89905	
1SI-10-B-3	VALVE BOLTING	VT89905	
1SI-10-B-4	VALVE BOLTING	VT89905	
1SI-10-B-5	VALVE BOLTING	VT89905	
1SI-10-B-6	VALVE BOLTING	VT89905	
1SI-10-B-7	VALVE BOLTING	VT89905	
1SI-10-B-8	VALVE BOLTING	VT89905	
1SI-10-B-9	VALVE BOLTING	VT89905	
1SI-10-B-10	VALVE BOLTING	VT89905	
1SI-10-B-11	VALVE BOLTING	VT89905	
1SI-10-B-12	VALVE BOLTING	VT89905	
* ISOMETRIC: 0375E			
1SI-12-B-1	VALVE BOLTING	VT89890	
1SI-12-B-2	VALVE BOLTING	VT89890	
1SI-12-B-3	VALVE BOLTING	VT89890	
1SI-12-B-4	VALVE BOLTING	VT89890	
1SI-12-B-5	VALVE BOLTING	VT89890	
1SI-12-B-6	VALVE BOLTING	VT89890	
1SI-12-B-7	VALVE BOLTING	VT89890	
1SI-12-B-8	VALVE BOLTING	VT89890	
1SI-12-B-9	VALVE BOLTING	VT89890	
1SI-12-B-10	VALVE BOLTING	VT89890	
1SI-12-B-11	VALVE BOLTING	VT89890	
1SI-12-B-12	VALVE BOLTING	VT89890	
1SI-23-B-1	VALVE BOLTING	VT89890	
1SI-23-B-2	VALVE BOLTING	VT89890	
1SI-23-B-3	VALVE BOLTING	VT89890	
1SI-23-B-4	VALVE BOLTING	VT89890 EM95082	UNSAT THREAD ENGAGEMENT ACCEPTED PER EM95082.
1SI-23-B-5	VALVE BOLTING	VT89890	
1SI-23-B-6	VALVE BOLTING	VT89890	
1SI-23-B-7	VALVE BOLTING	VT89890	
1SI-23-B-8	VALVE BOLTING	VT89890 EM95082	UNSAT THREAD ENGAGEMENT ACCEPTED PER EM95082.
1SI-23-B-9	VALVE BOLTING	VT89890	
1SI-23-B-10	VALVE BOLTING	VT89890	
1SI-23-B-11	VALVE BOLTING	VT89890	
1SI-23-B-12	VALVE BOLTING	VT89890	

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DUQUESNE LIGHT COMPANY
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0375F			
1SI-11-8-1	VALVE BOLTING	VT89906	
1SI-11-8-2	VALVE BOLTING	VT89906	
1SI-11-8-3	VALVE BOLTING	VT89906	
1SI-11-8-4	VALVE BOLTING	VT89906	
1SI-11-8-5	VALVE BOLTING	VT89906	
1SI-11-8-6	VALVE BOLTING	VT89906	
1SI-11-8-7	VALVE BOLTING	VT89906	
1SI-11-8-8	VALVE BOLTING	VT89906	
1SI-11-8-9	VALVE BOLTING	VT89906	
1SI-11-8-10	VALVE BOLTING	VT89906	
1SI-11-8-11	VALVE BOLTING	VT89906	
1SI-11-8-12	VALVE BOLTING	VT89906	
** ASME ITEM NUMBER/EXAM CATEGORY: B08.020 B-K			
* ISOMETRIC: E-0001P			
RC-TK-1-C-8	SKIRT CIRC WELD	UT89295	SCANNED BETW DATUM #0 AND #8, APPROX 96".
** ASME ITEM NUMBER/EXAM CATEGORY: B09.011 B-J			
* ISOMETRIC: 0348A			
RC-71-1-S-01	BUTT WELD	UT89322	
		PT89245	
RC-71-1-S-02	BUTT WELD	UT89323	
		PT89245	
RC-71-1-S-03	BUTT WELD	UT89324	
		PT89245	
RC-71-1-S-04	BUTT WELD	UT89325	LIMITED EXAM DUE TO WELDED ATTACH NTS (60%
		PT89245	EXAMINED).
* ISOMETRIC: 0348C			
RC-72-1-S-03	BUTT WELD	UT89256	
		PT89207	
RC-72-1-S-04	BUTT WELD	UT89257	
		PT89207	
* ISOMETRIC: 0350B			
RC-97-1-S-02	BUTT WELD	UT89281	
		PT89219	
RC-97-1-S-03	BUTT WELD	UT89279	
		PT89219	
		UT89280	
* ISOMETRIC: 0999A			
DLW-LOOP1-9-F-42	BUTT WELD	UT89320	LIMITED EXAM DUE TO VALVE (71% EXAMINED).

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
DLW-LOOP1-9-S-02	BUTT WELD	PT89242 UT89319 PT89242	
* ISOMETRIC: 09990			
DLW-PRESS-1-F-37	BUTT WELD	UT89289 PT89224	2 SAT PT INDICATIONS.
DLW-PRESS-2-F-38	BUTT WELD	UT89290 PT89223	
DLW-PRESS-2-S-02	BUTT WELD	UT89291 PT89223	
DLW-PRESS-2-S-01	BUTT WELD	UT89294 PT89223	
* ISOMETRIC: L-002A			
DLW-LOOP2-5-F-19	BUTT WELD	UT89375 PT89284	
* ISOMETRIC: 0074A			
RH-1-1-F-01	BUTT WELD	UT89332 PT89254	
RH-1-1-S-04	BUTT WELD	UT89333 PT89254	
RH-1-1-S-03	BUTT WELD	UT89338 PT89261	
RH-1-1-S-02	BUTT WELD	UT89337 PT89261	
RH-1-1-S-01	BUTT WELD	UT89336 PT89261	
RH-1-2-S-01	BUTT WELD	UT89342 PT89261	
* ISOMETRIC: 0107A			
RH-23-1-S-04	BUTT WELD	UT89278 PT89216	
RH-23-1-S-02	BUTT WELD	UT89277 PT89216 UT89388	
* ISOMETRIC: 0106A			
SI-121-3-F-05	BUTT WELD	UT89302 PT89235	
SI-121-4-S-06	BUTT WELD	UT89303 PT89235	
SI-121-4-S-05	BUTT WELD	UT89304 PT89235	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
SI-121-4-S-04	BUTT WELD	UT89305	
		PT89235	
SI-121-4-S-03	BUTT WELD	UT89306	
		PT89235	
SI-121-4-F-06	BUTT WELD	UT89307	
		PT89241	
* ISOMETRIC: 0220C			
SI-29-9-F-10	BUTT WELD	UT89356	
		PT89269	
SI-29-9-S-01	BUTT WELD	UT89353	
		PT89269	
SI-29-9-S-02	BUTT WELD	UT89354	
		PT89269	
SI-29-9-S-03	BUTT WELD	UT89355	
		PT89269	
SI-29-9-F-11	BUTT WELD	UT89357	
		PT89269	
* ISOMETRIC: 0222B			
SI-20-11-F-13	BUTT WELD	UT89321	
		PT89244	
SI-20-11-S-04	BUTT WELD	UT89314	
		PT89233	
SI-20-11-S-03	BUTT WELD	UT89313	
		PT89233	
SI-20-11-S-02	BUTT WELD	UT89312	
		PT89233	
SI-20-11-S-01	BUTT WELD	UT89311	
		PT89233	
* ISOMETRIC: 0223B			
SI-30-5-F-07	BUTT WELD	UT89258	
		PT89210	
SI-30-5-S-01	BUTT WELD	UT89260	
		PT89210	
SI-30-5-S-02	BUTT WELD	UT89262	
		PT89210	
SI-30-5-S-03	BUTT WELD	UT89261	
		PT89210	
SI-30-5-F-08	BUTT WELD	UT89259	
		PT89210	
* ISOMETRIC: 0375E			
SI-72-5-F-06	BUTT WELD	UT89317	
		PT89236	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
SI-72-6-F-07	BUTT WELD	UT89318	
		PT89236	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.012 B-J			
* ISOMETRIC: L-002A			
DLW-LOOP2-4-L-01	LONGITUDINAL ELBOW WELD	PT89283	
DLW-LOOP2-4-L-02	LONGITUDINAL ELBOW WELD	PT89283	
DLW-LOOP2-5-L-03	LONGITUDINAL ELBOW WELD	PT89284	
DLW-LOOP2-5-L-04	LONGITUDINAL ELBOW WELD	PT89284	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.021 B-J			
* ISOMETRIC: 0200C			
SI-134-2-F-03	BUTT WELD	PT89204	
SI-134-2-S-04	BUTT WELD	PT89204	
SI-134-2-S-03	BUTT WELD	PT89204	
SI-134-2-S-02	BUTT WELD	PT89204	
* ISOMETRIC: 0375E			
SI-72-7-S-07	BUTT WELD	PT89240	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.031 B-J			
* ISOMETRIC: L-002A			
DLW-LOOP2-1-S-03	BRANCH CONNECTION WELD	PT89281	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.032 B-J			
* ISOMETRIC: L-002B			
DLW-LOOP2-5-S-03	BRANCH CONNECTION WELD	PT89299	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.040 B-J			
* ISOMETRIC: 0195A			
CH-97-1A-S-02	SOCKET WELD	PT89205	
* ISOMETRIC: 0196A			
CH-96-1E-F-01	SOCKET WELD	PT89227	
CH-96-1E-F-1E	SOCKET WELD	PT89227	
CH-96-1D-F-1F	SOCKET WELD	PT89227	
CH-96-1A-F-1B	SOCKET WELD	PT89227	
CH-96-1-F-1C	SOCKET WELD	PT89227	
CH-96-1-S-01	SOCKET WELD	PT89227	
CH-96-1-F-02	SOCKET WELD	PT89227	3 SAT PT INDICATIONS
CH-96-2-S-01	SOCKET WELD	PT89288	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
CH-96-2-S-02	SOCKET WELD	PT89288	
* ISOMETRIC: 0242A			
CH-1-1A-F-1X	SOCKET WELD	PT89247	
CH-1-1B-F-1B	SOCKET WELD	PT89247	
CH-1-1B-S-02	SOCKET WELD	PT89247	SAT PT INDICATION
CH-1-1-F-01	SOCKET WELD	PT89247	
* ISOMETRIC: 0243A			
CH-140-7-F-11	SOCKET WELD	PT89248	
CH-140-8-S-07	SOCKET WELD	PT89248	
CH-140-8-S-06	SOCKET WELD	PT89248	
CH-140-8-S-05	SOCKET WELD	PT89248	
CH-140-8-S-04	SOCKET WELD	PT89248	
CH-140-8-S-03	SOCKET WELD	PT89248	
CH-140-8-F-12	SOCKET WELD	PT89296	
* ISOMETRIC: 0244A			
CH-141-2-F-03	SOCKET WELD	PT89258	PT UNSAT LINEAR INDICATION REWORKED PER PT89295 EM95098/MWR893844.
* ISOMETRIC: 0254A			
CH-23-3-S-03	SOCKET WELD	PT89252	ARC STRIKE ADJ'T TO WELD REWORKED EM95107/MWR893847/PT89298/VT891039. SEE ALSO VT89-946.
CH-23-4-F-06	SOCKET WELD	PT89252	ARC STRIKE ADJ'T TO WELD REWORKED EM95107/MWR893848/PT89298/VT891040. SEE ALSO VT89946.
CH-23-4-S-01	SOCKET WELD	PT89225	
CH-23-4-S-02	SOCKET WELD	PT89225	
CH-23-4A-F-6A	SOCKET WELD	PT89225	
* ISOMETRIC: 0357A			
DG-56-3-F-03	SOCKET WELD	PT89243	
DG-56-3-S-02	SOCKET WELD	PT89243	
DG-56-2-S-01	SOCKET WELD	PT89243	
DG-56-2-F-03	SOCKET WELD	PT89243	
DG-56-3-S-01	SOCKET WELD	PT89243	UNSAT PT INDICATION REWORKED PER PT89286 EM95087/MWR893839.
DG-56-3-F-04	SOCKET WELD	PT89243	UNSAT PT INDICATIONS REWORKED PER PT89286 EM95087/MWR893840.
* ISOMETRIC: 0358A			
DG-52-3-S-01	SOCKET WELD	PT89263	
DG-52-3A-F-04	SOCKET WELD	PT89263	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0243A			
RC-44-1-S-02	SOCKET WELD	PTB9248	
RC-44-1-S-01	SOCKET WELD	PTB9248	
* ISOMETRIC: 0244A			
RC-54-1-S-02	SOCKET WELD	PTB9258	
RC-54-1-F-4A	SOCKET WELD	PTB9258	
* ISOMETRIC: 0245A			
RC-64-1-S-02	SOCKET WELD	PTB9209	
RC-64-1-S-01	SOCKET WELD	PTB9209	
* ISOMETRIC: 0254A			
RC-72-5-F-08	SOCKET WELD	PTB9225	
RC-72-5-S-10	SOCKET WELD	PTB9225	
* ISOMETRIC: 0354B			
RC-25-2-S-04	SOCKET WELD	PTB9257	
* ISOMETRIC: 0200A			
SI-102-2-S-06	SOCKET WELD	PTB9292	
SI-102-2-S-05	SOCKET WELD	PTB9292	
SI-102-2-S-04	SOCKET WELD	PTB9292	
SI-102-2-S-03	SOCKET WELD	PTB9292	
* ISOMETRIC: 0375E			
SI-72-7-F-06	SOCKET WELD	PTB9239	
** ASME ITEM NUMBER/EXAM CATEGORY: B10.010 B-K-1			
* ISOMETRIC: 0074A			
RH-1-1-A-01 TO 02	WELDED ATTACHMENT SUPPORT SH-40	PTB9253	
RH-1-2-A-03 TO 06	WELDED ATTACHMENT SUPPORT SH-39	PTB9260	LIMITED EXAM DUE TO SUPPORT
RH-1-2-A-07	WELDED ATTACHMENT SNUBBER HSS-106	PTB9260	
* ISOMETRIC: 0108B			
RH-24-1A-A-01	WELDED ATTACHMENT SUPPORT A-42	PTB9229	2 SAT PT INDICATIONS
RH-24-1A-A-02	WELDED ATTACHMENT SUPPORT A-42	PTB9229	SAT PT INDICATION
** ASME ITEM NUMBER/EXAM CATEGORY: B12.050 B-M-2			
* ISOMETRIC: 0106A			
1SI-48	VALVE BODY	VB91005	
1SI-51	VALVE BODY	VTB9938	LIMITED EXAM DUE TO DISC NOT REMOVED

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: D107A			
1SI-49	VALVE BODY	VT89920	
* ISOMETRIC: D107B			
1SI-52	VALVE BODY	VT89939	LIMITED EXAM DUE TO DISC NOT REMOVED
* ISOMETRIC: D108B			
1SI-53	VALVE BODY	VT89943	LIMITED EXAM DUE TO DISC NOT REMOVED
** ASME ITEM NUMBER/EXAM CATEGORY: B13.010 B-N-1			
* ISOMETRIC: E-0001F			
RC-R-1-ACC-INT	INTERIOR	VT89901	
* ISOMETRIC: E-0001G			
RC-R-1-UPPER-INT	CORE SUPPORT STRUCTURE	VT89902	
** ASME ITEM NUMBER/EXAM CATEGORY: C01.010 C-A			
* ISOMETRIC: E-0003A			
CH-E-1-C-2	CIRCUMFERENTIAL BUTT WELD	VB91177	
* ISOMETRIC: E-0003C			
CH-E-3-C-7	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-8	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-9	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-10	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-11	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-12	CIRCUMFERENTIAL BUTT WELD	VB91190	
* ISOMETRIC: E-0003F			
CH-FL-3-C-2	CIRCUMFERENTIAL BUTT WELD	PT89277	
* ISOMETRIC: E-0003B			
CH-E-2-C-2	CIRCUMFERENTIAL BUTT WELD	VB91175	
* ISOMETRIC: E-0001N			
RC-E-1A-C-6	CIRCUMFERENTIAL BUTT WELD	UT89386	100% WELD LENGTH EXAMINED
** ASME ITEM NUMBER/EXAM CATEGORY: C01.020 C-A			
* ISOMETRIC: E-0003A			
CH-E-1-C-1	CIRCUMFERENTIAL BUTT WELD	VBV1177	
* ISOMETRIC: E-0003C			
CH-E-3-C-1	CIRCUMFERENTIAL BUTT WELD	VB91190	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
CH-E-3-C-2	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-3	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-4	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-5	CIRCUMFERENTIAL BUTT WELD	VB91190	
CH-E-3-C-6	CIRCUMFERENTIAL BUTT WELD	VB91190	
* ISOMETRIC: E-0003F			
CH-FL-3-C-1	CIRCUMFERENTIAL BUTT WELD	PTB9276	
* ISOMETRIC: E-0005B			
SI-TK-2-C-1	CIRCUMFERENTIAL BUTT WELD	UTB9370	
* ISOMETRIC: E-0003B			
CH-E-2-C-1	CIRCUMFERENTIAL BUTT WELD	VB91176	
* ISOMETRIC: E-0004A			
RH-E-1A-C-1	CIRCUMFERENTIAL BUTT WELD	UTB9387	LIMITED EXAM DUE TO TAPER (84% EXAMINED)
** ASME ITEM NUMBER/EXAM CATEGORY: C01.030 C-A			
* ISOMETRIC: E-0001N			
RC-E-1A-C-2	CIRCUMFERENTIAL BUTT WELD	UTB9380	100% WELD LENGTH EXAMINED
** ASME ITEM NUMBER/EXAM CATEGORY: C02.033 C-B			
* ISOMETRIC: E-0004A			
RH-E-1A-N-3	NOZZLE-TO-VESSEL WELD	VTB9658	
RH-E-1A-N-4	NOZZLE-TO-VESSEL WELD	VTB9658	
** ASME ITEM NUMBER/EXAM CATEGORY: C03.010 C-C			
* ISOMETRIC: E-0003F			
CH-FL-3-A-01	WELDED ATTACHMENT SUPPORT SUPP-1	PTB9278	
CH-FL-3-A-02	WELDED ATTACHMENT SUPPORT SUPP-2	PTB9278	
CH-FL-3-A-03	WELDED ATTACHMENT SUPPORT SUPP-3	PTB9278	
CH-FL-3-A-04	WELDED ATTACHMENT SUPPORT SUPP-4	PTB9278	
* ISOMETRIC: E-0005B			
SI-TK-2-WS-4	WELDED ATTACHMENT SUPPORT WS-4	PTB9300 EM95121	EM95121/E-89-37 ACCEPTS PT INDICATION
* ISOMETRIC: E-0001N			
RC-E-1A-WS-1	TRUNNION WELD	MTB9118	
RC-E-1A-WS-2	TRUNNION WELD	MTB9118	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER/EXAM CATEGORY: C03.020 C-C			
* ISOMETRIC: 0062A			
WFPD-22-4-A-01 TO 02	WELDED ATTACHMENT SUPPORT R-5	MT89122	
WFPD-22-5-A-03 TO 06	WELDED ATTACHMENT SNUBBER HSS203,204,R4	MT89124	
WFPD-22-6-A-07 TO 08	WELDED ATTACHMENT SUPPORT R-3	MT89123	
* ISOMETRIC: 0062B			
WFPD-23-3-A-01 TO 02	WELDED ATTACHMENT SUPPORT SH-9	MT89121	
* ISOMETRIC: 0062C			
WFPD-24-5-A-03 TO 06	WELDED ATTACHMENT SUPPORT R11,209,210	MT89150	ARC STRIKES ADJ'T TO A-3,5,6 PER VT891101.
		VB91101	MT89149 SATS 3,4,5. MT89150 UNSAT -6. REWORK
		MT89149	-6 EM95129/MWR894829, MT89161 SAT
		MT89161	
** ASME ITEM NUMBER/EXAM CATEGORY: C04.010 C-D			
* ISOMETRIC: E-0005B			
SI-TK-2-STUD-1	BOLTING	UT89360	
SI-TK-2-STUD-2	BOLTING	UT89361	
SI-TK-2-STUD-3	BOLTING	UT89362	
SI-TK-2-STUD-4	BOLTING	UT89363	
SI-TK-2-STUD-5	BOLTING	UT89364	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.011 C-F-1			
* ISOMETRIC: 0115A			
P11-G-S-09	PIPE WELD	UT89253	
		PT89201	
* ISOMETRIC: 0109A			
SI-18-1-S-05	PIPE WELD	UT89250	ARC STRIKE CLEARED PT89274, EM95017,
		PT89196	MWR892214. LIMITED EXAM DUE TO REDUCER (67%
		UT89251	EXMND).
* ISOMETRIC: 0223A			
SI-30-1-F-1A	PIPE WELD	UT89255	SAT PT INDICATIONS
		PT89206	
		UT89254	
* ISOMETRIC: 0272A			
SI-TK-2-E-02	PIPE WELD	UT89372	LIMITED EXAM DUE NOZZLE CONFIGURATION(63%
		PT89279	EXAMINED). PT IND. SAT.
SI-TK-2-E-01	PIPE WELD	UT89371	LIMITED EXAM DUE TO NOZZLE CONFIGURATION(43%
		PT89279	EXAMINED)

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DUQUESNE LIGHT COMPANY
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0074B			
RH-18-1-S-08	PIPE WELD	UT89275	
		PT89214	
RH-18-1-S-09	PIPE WELD	UT89276	
		PT89214	
RH-18-1-S-04	PIPE WELD	UT89274	SAT PT INDICATION
		PT89214	
RH-18-1-S-03	PIPE WELD	UT89273	3 SAT PT INDICATIONS
		PT89214	
RH-18-1-S-01	PIPE WELD	UT89272	SAT PT INDICATION
		PT89214	
* ISOMETRIC: 0075B			
RH-12-4-F-03	PIPE WELD	UT89270	
		PT89215	
RH-12-5-F-04	PIPE WELD	UT89271	
		PT89215	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.012 C-F-1			
* ISOMETRIC: 0083A			
SI-5-1H-F-1P	ALIGNING CONN. LONGITUDINAL WELD	UT89252	
		PT89198	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.021 C-F-1			
* ISOMETRIC: 0170A			
CH-125-9B-S-06	PIPE WELD	UT89288	
		PT89222	
CH-125-9B-S-05	PIPE WELD	UT89287	
		PT89222	
CH-125-9B-S-04	PIPE WELD	UT89286	
		PT89222	
CH-125-9B-S-03	PIPE WELD	UT89285	
		PT89222	
* ISOMETRIC: 0367A			
SI-133-5-S-07	PIPE WELD	UT89247	
		PT89192	
SI-133-5-S-06	PIPE WELD	UT89246	
		PT89192	
SI-133-5-S-05	PIPE WELD	UT89245	
		PT89192	
SI-133-5-S-04	PIPE WELD	UT89244	
		PT89192	
SI-133-5-S-03	PIPE WELD	UT89243	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
SI-133-5-S-02	PIPE WELD	PT89192 UT89242	
SI-133-5-S-01	PIPE WELD	PT89192 UT89240	
SI-133-5-F-06	PIPE WELD	PT89192 UT89241	
SI-133-6A-S-05	PIPE WELD	PT89192 UT89249	UT REQ'D
SI-133-6A-S-04	PIPE WELD	PT89194 UT89248 PT89193 PT89272	PT IND. REWORKED PER EM95016/MWR893434

** ASME ITEM NUMBER/EXAM CATEGORY: C05.030 C-F-1

* ISOMETRIC: 0192A			
SI-82-1-S-02	SOCKET WELD	PT89289	
SI-82-1-F-01A	SOCKET WELD	PT89289	
SI-82-2-S-04	SOCKET WELD	PT89289	
* ISOMETRIC: 0193A			
SI-84-1-S-03	SOCKET WELD	PT89290	
* ISOMETRIC: 0194A			
SI-86-2-S-01	SOCKET WELD	PT89291	
SI-86-2B-F-02	SOCKET WELD	PT89291	
* ISOMETRIC: 0267B			
CH-87-3-F-03B	SOCKET WELD	PT89195	
CH-87-4-F-03C	SOCKET WELD	PT89195	
* ISOMETRIC: 0109A			
SI-16-8-F-22	SOCKET WELD	PT89197	

** ASME ITEM NUMBER/EXAM CATEGORY: C05.051 C-F-2

* ISOMETRIC: 0062A			
WFPD-24-7A-F-09	PIPE WELD	UT89367	SEE UT89-392 FOR NDE REQUEST 107 EXAMS.
		MT89087	
WFPD-24-7A-S-03	PIPE WELD	UT89368	SEE ALSO E-89-036
		MT89087	
		UT89378	
WFPD-24-7A-S-02	PIPE WELD	UT89394	UT ONLY
* ISOMETRIC: 0062B			
WFPD-23-6C-F-02	PIPE WELD	UT89377	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
**********	**********	******	*******
		MT89097	
WFPD-23-6C-F-01	PIPE WELD	UT89376	UT IND ACCEPTED ON E-89-037
		MT89097	
* ISOMETRIC: 0062C			
WFPD-22-8F-F-02	PIPE WELD	UT89301	UNSAT MT INDICATION REPAIRED PER EM95079
		MT89065	
		MT89081	
WFPD-22-8F-F-01	PIPE WELD	UT89300	
		MT89065	
		UT89381	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.052 C-F-2			
* ISOMETRIC: 0001A			
SHP-56-9-L-05	LONGITUDINAL WELD ALONG ELBOW	UT89379	
		MT89110	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.081 C-F-2			
* ISOMETRIC: 0002A			
SHP-56-10-S-09	REINFORCING RING WELD	MT89080	
** ASME ITEM NUMBER/EXAM CATEGORY: C06.010 C-G			
* ISOMETRIC: DLW2-3140			
RS-P-1A-1	PUMP CASING WELD	PT89293	
RS-P-1A-2	PUMP CASING WELD	PT89293	
RS-P-1A-3	PUMP CASING WELD	PT89293	
** ASME ITEM NUMBER/EXAM CATEGORY: D01.020 D-A			
* ISOMETRIC: 0065A			
WAPD-2-1-A-01	WELDED ATTACHMENT SUPPORT RH-5	VT89605	
WAPD-2-1A-A-02 TO 03	WELDED ATTACHMENT SUPPORT R-6	VT89605	
WAPD-2-2-A-04	WELDED ATTACHMENT SUPPORT A-7	VT89605	
WAPD-1-4-A-05	WELDED ATTACHMENT SUPPORT RH-20	VT89605	
WAPD-1-4-A-06	WELDED ATTACHMENT SUPPORT R-19	VT89605	
WAPD-1-4-A-07	WELDED ATTACHMENT SUPPORT A-18	VT89605	
* ISOMETRIC: 0775A			
WAPD-25-2-A-06	WELDED ATTACHMENT SUPPORT PSA013	VT89609	
WAPD-25-11-A-05	WELDED ATTACHMENT SUPPORT PSA001	VT89609	
** ASME ITEM NUMBER/EXAM CATEGORY: D02.010 D-B			

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: RHE2			
RH-E-2A-WS-1	SADDLE SUPP. ATTACHMENT	VTB9876	
** ASME ITEM NUMBER/EXAM CATEGORY: D02.020 D-B			
* ISOMETRIC: 0164A			
CC-116-4-A-11	WELDED ATTACHMENT SUPPORT R-27C-2	VTB9820	
CC-116-5-A-01 TO 02	WELDED ATTACHMENT SUPPORT R-18C-3	VTB9820	
* ISOMETRIC: 0165A			
CC-248-1-A-02 TO 05	WELDED ATTACHMENT SUPPORT A-18B-1	VTB9816	
CC-249-2C-A-01	WELDED ATTACHMENT SUPPORT A-281A	VTB9816	
* ISOMETRIC: 0175A			
CC-261-1A-A-06	WELDED ATTACHMENT SUPPORT A-10B-4	VTB9813	
CC-261-3-A-07 TO 10	WELDED ATTACHMENT SUPPORT A-42B-1	VTB9813	
CC-257-1-A-01	WELDED ATTACHMENT SUPPORT A-18B-3	VTB9813	
CC-257-2-A-02 TO 05	WELDED ATTACHMENT SUPPORT A-26B-3	VTB9813	
* ISOMETRIC: 0178A			
CC-258-5-A-01	WELDED ATTACHMENT SUPPORT R-23C-2	VTB9815	
CC-258-6-A-02	WELDED ATTACHMENT SUPPORT A-301	VTB9815	
CC-265-6-A-04 TO 07	WELDED ATTACHMENT SUPPORT A-40C-1	VTB9815	
CC-265-8-A-03	WELDED ATTACHMENT SUPPORT A-333	VTB9815	
* ISOMETRIC: 0179A			
CC-114-4-A-22	WELDED ATTACHMENT SUPPORT R-17D-3	VTB9819	
CC-114-5-A-25	WELDED ATTACHMENT SUPPORT R-10D-6	VTB9819	
CC-114-8-A-26 TO 29	WELDED ATTACHMENT SUPPORT R-40D-1	VTB9819	
CC-114-11-A-30 TO 33	WELDED ATTACHMENT SUPPORT R-182	VB91009	
CC-114-11-A-34 TO 37	WELDED ATTACHMENT SUPPORT R-180	VB91009	
CC-118-5-A-09 TO 12	WELDED ATTACHMENT SUPPORT R-26D-3	VTB9819	
CC-118-8-A-14 TO 17	WELDED ATTACHMENT SUPPORT R-181	VB91009	
CC-118-8-A-18 TO 21	WELDED ATTACHMENT SUPPORT R-179	VB91009	
* ISOMETRIC: 0184A			
CC-258-2-A-01 TO 08	WELDED ATTACHMENT SUPPORT R-269B	VTB9796	
CC-258-3-A-09	WELDED ATTACHMENT SUPPORT A-269	VTB9779	
CC-258-4A-A-10	WELDED ATTACHMENT SUPPORT R-270	VTB9779	
* ISOMETRIC: 0185A			
CC-265-2-A-01 TO 08	WELDED ATTACHMENT SUPPORT R-274B	VTB9797	
CC-265-3-A-09	WELDED ATTACHMENT SUPPORT A-273	VTB9773	
CC-265-5-A-10	WELDED ATTACHMENT SUPPORT R-274	VTB9773	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0186A			
CC-263-2-A-01	WELDED ATTACHMENT SUPPORT A-262	VT89777	
CC-263-4-A-02	WELDED ATTACHMENT SUPPORT R-263	VT89777	
* ISOMETRIC: 0187A			
CC-261-5-A-01	WELDED ATTACHMENT SUPPORT A-276	VT89782	
* ISOMETRIC: 0188A			
CC-262-2-A-01	WELDED ATTACHMENT SUPPORT A-264	VT89776	
* ISOMETRIC: 0189A			
CC-257-4A-A-01	WELDED ATTACHMENT SUPPORT A-272	VT89793	
* ISOMETRIC: 0284A			
CC-177-1B-A-02	WELDED ATTACHMENT SUPPORT R-237	VT89614	
CC-112-5-A-01	WELDED ATTACHMENT SUPPORT R-208	VT89614	
* ISOMETRIC: 0286A			
CC-249-5-A-01	WELDED ATTACHMENT SUPPORT R-216	VT89784	
CC-266-1-A-02	WELDED ATTACHMENT SUPPORT R-203	VT89784	
CC-202-9-A-07 TO 10	WELDED ATTACHMENT SUPPORT R-214	VT89784	
* ISOMETRIC: 0287A			
CC-266-2A-A-04	WELDED ATTACHMENT SUPPORT A-21	VT89762	
* ISOMETRIC: CCTK1			
CC-TK-1-W1	INTEGRALLY WELDED ATTACHMENT	VT89822	
* ISOMETRIC: E-0003A			
CH-E-1-WS-3	UPPER RESTRAINT INTEGRAL LUG ATTACHMENT	VT89849	
* ISOMETRIC: E-0004A			
RH-E-1A-A-17 TO 22	UPPER LUG WELDED ATTACHMENT	VB91015	
** ASME ITEM NUMBER/EXAM CATEGORY: D02.030 D-B			
* ISOMETRIC: 0068A			
WR-19-3C-A-10 TO 11	WELDED ATTACHMENT SNUBBER HSS-303A&B	VT89800	
WR-19-6-A-01 TO 04	WELDED ATTACHMENT SNUBBER HSS-301&302	VT89800	
WR-7-1-A-21 TO 22	WELDED ATTACHMENT SNUBBER HSS-311&312	VT89800	
* ISOMETRIC: 0069A			
WR-17-4-A-01 TO 03	WELDED ATTACHMENT SNUBBER HSS-304A,B,19	VT89769	
* ISOMETRIC: 0128A			
WR-20-2F-A-11	WELDED ATTACHMENT SNUBBER HSS-309	VT89770	

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WR-20-2E-A-12	WELDED ATTACHMENT SNUBBER HSS-308	VT89770	
** ASME ITEM NUMBER/EXAM CATEGORY: D02.040 D-B			
* ISOMETRIC: 0131A			
CC-105-1-A-11	WELDED ATTACHMENT SUPPORT SH-59A	VT89791	
CC-4-1-A-12	WELDED ATTACHMENT SUPPORT SH-56A	VT89791	
* ISOMETRIC: 0137B			
CC-112-4C-A-02	WELDED ATTACHMENT SUPPORT VS-206	VT89612	
* ISOMETRIC: 0285A			
CC-113-1-A-01	WELDED ATTACHMENT SUPPORT VS-204	VT89616	
CC-113-1B-A-02	WELDED ATTACHMENT SUPPORT SH 205A	VT89616	
* ISOMETRIC: 0287A			
CC-125-1B-A-01	WELDED ATTACHMENT SUPPORT SH-204A	VT89621	
CC-125-1A-A-02	WELDED ATTACHMENT SUPPORT VS-205	VT89787	
CC-266-2-A-03	WELDED ATTACHMENT SUPPORT VS-201	VT89621	LIMITED EXAM DUE TO CONFIGURATION
* ISOMETRIC: 0069A			
WR-17-7-A-12	WELDED ATTACHMENT SNUBBER HSS-316	VT89768	
* ISOMETRIC: 0128B			
WR-19-12-A-17	WELDED ATTACHMENT SNUBBER HSS-310	VT89783	
** ASME ITEM NUMBER/EXAM CATEGORY: D03.020 D-C			
* ISOMETRIC: 0070A			
FC-8-1-A-01	WELDED ATTACHMENT SUPPORT R-19	VT89760	
FC-8-2B-A-02 TO 05	WELDED ATTACHMENT SUPPORT R-18	VT89760	
** ASME ITEM NUMBER/EXAM CATEGORY: D03.030 D-C			
* ISOMETRIC: 0071A			
FC-5-3-A-06	WELDED ATTACHMENT SNUBBER HSS-201	VT89786	
* ISOMETRIC: 0150A			
FC-1-2-A-09 TO 10	WELDED ATTACHMENT SNUBBER HSS-204,205	VT89758	
** ASME ITEM NUMBER/EXAM CATEGORY: F01.010 F-A			
* ISOMETRIC: E-0001P			
RC-TK-1-SS-1	SKIRT SUPPORT	VT89952	
RC-TK-1-SS-2	STRUCTURAL SUPPORT	VT89953	

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DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: E-0003A			
CH-E-1-SUPP-3	UPPER STRUCT. RESTRAINT	VT89851	
* ISOMETRIC: E-0003F			
CH-FL-3-SUPP-1	LEG SUPPORT NO. 1	VT89978	
CH-FL-3-SUPP-2	LEG SUPPORT NO .2	VT89978	
CH-FL-3-SUPP-3	LEG SUPPORT NO. 3	VT89978	
CH-FL-3-SUPP-4	LEG SUPPORT NO. 4	VT89978	
* ISOMETRIC: E-0004A			
RH-E-1B-SUPP-1	LOWER FOOT SUPPORT NO. 1	VT89878	
RH-E-1B-SUPP-2	LOWER FOOT SUPPORT NO. 2	VT89878	UNSAT NUTS NOT FLUSH WITH MATING SURFACE EM95073 ACCEPTED PER EM95073.
* ISOMETRIC: E-0004B			
RH-P-1A-SC-1	SUPPORT	VT89845	
RH-P-1A-SC-2	SUPPORT	VT89845	
RH-P-1A-SC-3	SUPPORT	VT89845	
* ISOMETRIC: CCTK1			
CC-TK-1-SUPP-1	SKIRT SUPPORT	VT89823	EM95055 ACCEPTS UNSAT BOLTING SURFACES EM95055
* ISOMETRIC: E-0004A			
RH-E-1A-WS-3	UPPER RESTRAINT ASSEMBLY	V891016	
** ASME ITEM NUMBER/EXAM CATEGORY: F01.020 F-A			
* ISOMETRIC: E-0003A			
CH-E-1-SUPP-1	LOWER STRUCT. WELDED SUPP.	VT89851	
CH-E-1-SUPP-2	LOWER STRUCT. WELDED SUPP.	VT89851	
* ISOMETRIC: E-0003B			
CH-E-2-SUPP-1	SUPPORT 1 & STRUCTURE	VT89847	
CH-E-2-SUPP-2	SUPPORT 2 & STRUCTURE	VT89847	
** ASME ITEM NUMBER/EXAM CATEGORY: F01.030 F-A			
* ISOMETRIC: E-0001A			
RC-ES-1	NEUTRON SHIELD TANK/SKIRT	VT89723 VT89809	
* ISOMETRIC: E-0004A			
RH-E-1A-SUPP-1	LOWER FOOT SUPPORT NO. 1	VT89848	UNSAT NUTS NOT FLUSH WITH MATING SURFACE EM95058 ACCEPTED PER EM95058.
RH-E-1A-SUPP-2	LOWER FOOT SUPPORT NO. 2	VT89848	UNSAT NUTS NOT FLUSH WITH MATING SURFACE

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DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
			V891130 REWORKED PER EM95058/MWR894450.
* ISOMETRIC: RHE2			
RH-E-2A-SUPP-1	SADDLE SUPPORT, 8.99".		VT89877
** ASME ITEM NUMBER/EXAM CATEGORY: B02.030 B-B			
* ISOMETRIC: E-0001A			
RC-R-1-S2	LOOP 1 OUTLET NOZZLE SADDLE		V891048
RC-R-1-S4	LOOP 2 OUTLET NOZZLE SADDLE		V891048
RC-R-1-S6	LOOP 3 OUTLET NOZZLE SADDLE		V891048
** ASME ITEM NUMBER/EXAM CATEGORY: F03.010 F-C			
* ISOMETRIC: 0242A			
CH-1-28-R-PS-22	SUPPORT		VT89888
* ISOMETRIC: 0246A			
CH-96-6-PS-1	SUPPORT		VT89893
CH-96-6-PS-2	SUPPORT		VT89893
CH-96-7A-PS-3	SUPPORT		VT89893
* ISOMETRIC: 0348B			
RC-71-7-A-17	SUPPORT		VT89862
RC-71-7-R-17A	SUPPORT		VT89862
* ISOMETRIC: 0348C			
RC-72-4-R-6	SUPPORT		VT89872 UNSAT THREAD ENGAGEM'T ACCEPTED PER EM95071. EM95071
* ISOMETRIC: 0348D			
RC-72-48-A-7	SUPPORT		VT89861 UNSAT THREAD ENGAGEMENT REWORKED PER V891156 EM95071A/MWR893849.
RC-72-5-R-9	SUPPORT		V891003
* ISOMETRIC: 0074A			
RH-1-2-R-38	SUPPORT		VT89934
* ISOMETRIC: 0200A			
SI-102-2-A-PS-2	SUPPORT		VT89771
SI-21-1B-R-73B	SUPPORT		VT89771
* ISOMETRIC: 0200B			
SI-106-1C-A-PS-3	SUPPORT		VT89780
SI-23-1-R-PS-2	SUPPORT		VT89795

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0200C			
SI-134-2-R-319	SUPPORT	VT89915	
SI-134-2-R-318	SUPPORT	VT89915	
SI-134-2-R-317	SUPPORT	VT89915	
SI-134-3-R-316	SUPPORT	VT89915	
SI-130-9-R-146	SUPPORT	VT89915	
SI-130-10-R-85	SUPPORT	VT89798	
SI-130-11-R-82	SUPPORT	VT89798	
SI-102-1-R-71	SUPPORT	VT89798	
* ISOMETRIC: 0375F			
SI-73-4-R-305A	SUPPORT	VT89916	UNSAT DUE TO LOOSE LOCKNUT,PAINTED BEARING. VT89981 VT89981 VERIFIED NUT TIGHTENED(EM95089).
* ISOMETRIC: 0114A			
P12-H1-PSR-33B	SUPPORT	VT89607	
* ISOMETRIC: 0265A			
CH-79-2B-PS-10	SUPPORT	VB91001	
CH-79-2D-PS-R-12	SUPPORT	VB91001	
CH-79-5-VS-1	VALVE SUPPORT	VB91001	
CH-79-5-PS-R-9	SUPPORT	VB91001	
CH-78-2B-PS-R-6	SUPPORT	VB91001	
CH-78-2D-PS-R-8	SUPPORT	VB91001	
CH-78-3-VS-2	VALVE SUPPORT	VB91001	
CH-78-3-PS-R-5	SUPPORT	VB91001	
CH-80-1-R-44	SUPPORT	VT89908	
CH-80-1-R-45	SUPPORT	VT89908	
CH-80-1-R-46	SUPPORT	VB91001	
CH-80-1-A-47	SUPPORT	VB91001	
CH-80-1-R-48	SUPPORT	VB91001	
CH-80-1-R-49	SUPPORT	VB91001	
* ISOMETRIC: 0266A			
CH-76-1-R-40	SUPPORT	VT89907	
CH-76-1-R-41	SUPPORT	VB91002	
CH-76-1-A-42	SUPPORT	VB91002	
CH-76-1-R-43	SUPPORT	VB91002	
* ISOMETRIC: 0267A			
CH-74-1-R-54	SUPPORT	VB91000	UNSAT CRACK ON WALL-CLEARED EM95084 Q-97394. Q97394
CH-74-1-R-85	SUPPORT	VB91000	
CH-75-1-R-55	SUPPORT	VB91000	
CH-75-1-R-86	SUPPORT	VB91000	
CH-72-2-R-35	SUPPORT	VT89909	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
CH-72-2-R-36	SUPPORT	VT89909	
CH-72-2-R-37	SUPPORT	V891000	
CH-72-2-A-38	SUPPORT	V891000	
CH-72-2-R-39	SUPPORT	V891000	
CH-72-1-R-39A	SUPPORT	V891000	
CH-81-1-R-133	SUPPORT	V891000	
CH-81-2-R-224	VALVE SUPPORT	V891000	
CH-81-3-R-227	VALVE SUPPORT	V891000	
CH-82-2-R-58	SUPPORT	V891000	
* ISOMETRIC: 0267B			
CH-81-4-A-60	SUPPORT	VT89865	
CH-81-4-R-3-12C-2	SUPPORT	VT89865	
CH-81-4-R-3-11C-2	SUPPORT	VT89865	
CH-81-4-R-3-10C-2	SUPPORT	VT89865	
CH-81-4-R-3-9C-2	SUPPORT	VT89865	
CH-81-5B-R-2-10C-4	SUPPORT	VT89865	
CH-81-5B-R-2-12C-4	SUPPORT	VT89865	
CH-81-5B-R-2-13C-4	SUPPORT	VT89865	
CH-81-5B-R-2-15C-4	SUPPORT	VT89865	
CH-81-6-R-2-17C-4	SUPPORT	VT89865	
CH-81-6-R-2-19C-4	SUPPORT	VT89865	
CH-81-6-R-2-21C-4	SUPPORT	VT89865	
CH-81-6-R-2-23C-4	SUPPORT	VT89865	
CH-81-6-R-2-25C-4	SUPPORT	VT89865	
CH-81-7-R-2-27C-4	SUPPORT	VT89865	
CH-81-7-A-2-29C-4	SUPPORT	VT89865	
CH-81-7-R-2-31C-4	SUPPORT	VT89865	
CH-81-8A-PS-R-19	SUPPORT	VT89865	
CH-94-1-PS-R-26	VALVE SUPPORT	VT89864	INCOMPLETE THREAD ENGAGEMENT, MISSING HILTI
		EM95072	BOLT ACCEPTED PER EM95072.
CH-94-3-PS-R-27	SUPPORT	VT89865	
CH-95-1-PS-P-21	VALVE SUPPORT	VT89865	
CH-95-1-PS-R-22	SUPPORT	VT89865	
CH-93-1A-PS-SH-23	VALVE SUPPORT	VT89865	
CH-93-1A-PS-R-24	VALVE SUPPORT	VT89865	
* ISOMETRIC: 0268A			
CH-125-1-VC-174	SUPPORT	VT89863	
CH-125-2-R-73	SUPPORT	VT89863	
CH-125-2-R-74A	SUPPORT	VT89863	
CH-125-2-R-74	SUPPORT	VT89863	
CH-125-5-R-75A	SUPPORT	VT89863	
CH-125-5A-H-75	SUPPORT	VT89863	
CH-125-5A-H-3-9B-1	SUPPORT	VT89863	
CH-125-5A-H-3-10B-1	SUPPORT	VT89863	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
CH-125-6-R-2-10A-1	SUPPORT	VT89863	
CH-125-6-R-2-12A-1	SUPPORT	VT89863	
CH-125-6-R-2-13A-1	SUPPORT	VT89875	
CH-125-6-R-2-15A-1	SUPPORT	VT89875	
CH-125-6-R-2-17A-1	SUPPORT	VT89875	
CH-125-7-VC-2-19A-1	SUPPORT	VT89875	
CH-125-7-VS-88	SUPPORT	VT89875	
CH-125-7-R-2-21A-1	SUPPORT	VT89875	
CH-125-7-R-2-22A-1	SUPPORT	VT89875	
CH-125-7-VS-89	SUPPORT	VT89875	
CH-125-7-R-2-24A-1	SUPPORT	VT89875	
CH-125-7A-VS-90	SUPPORT	VT89875	
CH-125-7A-R-2-26A-1	SUPPORT	VT89863	
CH-125-7A-VS-91	SUPPORT	VT89863	
CH-125-7A-R-2-28A-1	SUPPORT	VT89863	
CH-125-7A-H-275A	SUPPORT	VT89863	
CH-125-7A-R-2-30A-1	SUPPORT	VT89863	
CH-125-7A-R-275	SUPPORT	VT89863	
CH-125-7A-R-2-31A-1	SUPPORT	VT89863	
CH-125-7A-R-274	SUPPORT	VT89863	
CH-125-7B-R-273	SUPPORT	VT89863	
* ISOMETRIC: 0270A			
CH-86-3-PS-06	SUPPORT	VT89904	
CH-85-3-PS-05	SUPPORT	VT89904	
CH-85-4-PS-01	SUPPORT	VT89904	
CH-85-4-PS-02	SUPPORT	VT89904	
CH-85-4-PS-12	SUPPORT	VT89904	
CH-85-4-PS-13	SUPPORT	VT89904	
CH-85-5-PS-14	SUPPORT	VT89904	
CH-85-5-PS-15	SUPPORT	VT89904	
CH-85-5-PS-7A	SUPPORT	VT89904	
CH-85-6-PS-07	SUPPORT	VT89904	
CH-85-6-PS-8A	SUPPORT	VT89904	
CH-85-6-PS-08	SUPPORT	VT89904	
CH-85-6-PS-09	SUPPORT	VT89904	
CH-85-6-PS-R-17	SUPPORT	VT89904	
CH-85-6-PS-R-16	SUPPORT	VT89904	
CH-85-7-PS-R-10	SUPPORT	VT89904	
CH-85-7-PS-R-11	SUPPORT	VT89904	
* ISOMETRIC: E-0003C			
CH-E-3-SUPP-1	STRUC/CLAMP SUPP.	VT89936	
CH-E-3-SUPP-2	STRUC/CLAMP SUPP.	VT89936	

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DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0083A			
SI-7-1-VS-13	SUPPORT	VT89757	
SI-8-1-VS-14	SUPPORT	VT89757	
* ISOMETRIC: 0083B			
SI-1-6A-R-17A	SUPPORT	VT89766	
SI-1-7-R-17B	SUPPORT	VT89766	
SI-1-7-R-16	SUPPORT	VT89766	
SI-1-7-A-15	SUPPORT	VT89766	
* ISOMETRIC: 0114A			
SI-26-3-R-70	SUPPORT	VT89607	
SI-26-3-PSR-070A	SUPPORT	VT89607	UNSAT FROZEN BEARING AND LOCK NUT NOT FLUSH
		VT89879	REWORKED PER EM95075/EM95013/MWR893962.
		V891127	
* ISOMETRIC: 0115A			
SI-16-3-PSR-061B	SUPPORT	VT89610	UNSAT PAINTED BEARING REWORKED PER
		V891124	EM95012/MWR894801.
* ISOMETRIC: 0074B			
RH-18-1-R-33	SUPPORT	VT89825	
RH-2-1-R-30	SUPPORT	VT89825	
RH-18-2-R-31	SUPPORT	VT89825	
* ISOMETRIC: 0075A			
RH-12-2-DS-1	SUPPORT	VT89829	
RH-12-2-R-6A	SUPPORT	VT89829	
* ISOMETRIC: 0065A			
WAPD-2-A-7	SUPPORT	VT89606	
WAPD-1-A-18	SUPPORT	VT89606	
* ISOMETRIC: 0775A			
WAPD-25-PSA013	SUPPORT	VT89608	
WAPD-25-PSA001	SUPPORT	VT89608	EM95015 ACCEPTS GAPS BETWEEN WALL AND
		EM95015	BASEPLATE.
* ISOMETRIC: 0131B			
CC-112-VS-206	SUPPORT	VT89613	
* ISOMETRIC: 0165A			
CC-248-A-281A	SUPPORT	VT89817	
* ISOMETRIC: 0178A			
CC-258-A-301	SUPPORT	VT89814	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
CC-265-A-333	SUPPORT	VT89814	
* ISOMETRIC: 0179A			
CC-114-R-182	SUPPORT	V891010	
CC-114-R-180	SUPPORT	V891010	
CC-118-R-181	SUPPORT	V891010	
CC-118-R-179	SUPPORT	V891010	
* ISOMETRIC: 0184A			
CC-258-R-269B	SUPPORT	VT89796	
CC-258-A-269	SUPPORT	VT89779	
CC-258-R-270	SUPPORT	VT89779	
* ISOMETRIC: 0185A			
CC-265-R-274-B	SUPPORT	VT89797	
CC-265-A-273	SUPPORT	VT89773	
CC-265-R-274	SUPPORT	VT89773	
* ISOMETRIC: 0186A			
CC-263-A-262	SUPPORT	VT89778	
CC-263-R-263	SUPPORT	VT89778	
* ISOMETRIC: 0187A			
CC-261-A-276	SUPPORT	VT89781	
* ISOMETRIC: 0188A			
CC-262-A-264	SUPPORT	VT89775	
* ISOMETRIC: 0189A			
CC-257-A-272	SUPPORT	VT89801	
* ISOMETRIC: 0284A			
CC-112-R-208	SUPPORT	VT89615	
* ISOMETRIC: 0285A			
CC-113-VS-204	SUPPORT	VT89617	
* ISOMETRIC: 0286A			
CC-518-R-216	SUPPORT	VT89785	
CC-526-R-214	SUPPORT	VT89785	
* ISOMETRIC: 0287A			
CC-125-VS-205	SUPPORT	VT89761	
CC-266-VS-201	SUPPORT	VT89623	
CC-125-A-21	SUPPORT	VT89761 EM95022	ACCEPTS UNSAT THREAD ENGAGEMENT
		EM95022	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0070A			
FC-8-R-19	SUPPORT	VT89759	
FC-8-R-18	SUPPORT	VT89759	UNSAT BOLTING ACCEPTED PER EM95023
		EM95023	
** ASME ITEM NUMBER/EXAM CATEGORY: F03.020 F-C			
* ISOMETRIC: 0243A			
CH-140-8-PS-5	SUPPORT	VT89955	
* ISOMETRIC: 0350B			
RC-H-36	VALVE SUPPORT	VT89846	
* ISOMETRIC: 0200A			
SI-102-1-R-PS-1	SUPPORT	VT89794	
* ISOMETRIC: 0200B			
SI-23-1-R-PS-5	SUPPORT	VT89795	
SI-23-2-R-PS-4	SUPPORT	VT89795	
SI-23-2-R-PS-3	SUPPORT	VT89795	
SI-23-2B-R-PS-1	SUPPORT	VT89795	
* ISOMETRIC: 0375C			
SI-74-5-R-329	SUPPORT	VT89743	
SI-74-5-R-330	SUPPORT	VT89743	
SI-74-5-R-331	SUPPORT	VT89743	
* ISOMETRIC: 0375E			
SI-72-4-R-312A	SUPPORT	VT89892	UNSAT PAINTED BEARINGS ACCEPTED PER EM95083
		EM95083	
SI-72-6-R-320	SUPPORT	VT89890	
SI-72-7-R-321	SUPPORT	VT89853	
* ISOMETRIC: 0115A			
SI-40-1-A-37	SUPPORT	VT89835	
* ISOMETRIC: 0065A			
WAPD-2-RH-5	SUPPORT	VT89606	
WAPD-1-RH-20	SUPPORT	VT89606	
* ISOMETRIC: 0165A			
CC-248-A-188-1	SUPPORT	VT89817	
* ISOMETRIC: 0175A			
CC-261-A-108-4	SUPPORT	VT89812	
CC-261-A-428-1	SUPPORT	VT89812	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
CC-257-A-188-3	SUPPORT	VT89812	
CC-257-A-268-3	SUPPORT	VT89812	
* ISOMETRIC: 0178A			
CC-258-R-230-2	SUPPORT	VT89814	
CC-265-A-400-1	SUPPORT	VT89814	
* ISOMETRIC: 0284A			
CC-510-R-237	SUPPORT	VT89615	
* ISOMETRIC: 0286A			
CC-266-R-203	SUPPORT	VT89785	
** ASME ITEM NUMBER/EXAM CATEGORY: F03.030 F-C			
* ISOMETRIC: 0196A			
CH-96-1-PS-2	SUPPORT	VT89828	
CH-96-2-PS-1	SUPPORT	VT89828	
CH-96-3-R-PS-3	SUPPORT	VT89828	
CH-96-3-R-PS-4	SUPPORT	VT89828	
CH-96-3-R-PS-5	SUPPORT	VT89828	
CH-96-3-R-PS-6	SUPPORT	VT89828	
CH-96-3A-R-PS-7	SUPPORT	VT89828	
CH-96-3A-R-PS-8	SUPPORT	VT89828	
CH-96-4-PS-9	SUPPORT	VT89828	
CH-96-4-R-PS-10	SUPPORT	VT89828	
CH-96-4-R-PS-11	SUPPORT	VT89828	
CH-96-4A-R-PS-12	SUPPORT	VT89828	
CH-96-4A-R-PS-13	SUPPORT	VT89828	
CH-96-4A-R-PS-14	SUPPORT	VT89828	
CH-96-5-R-PS-15	SUPPORT	VT89828	
* ISOMETRIC: 0242A			
CH-1-3-PS-21	SUPPORT	VT89888	
* ISOMETRIC: 0243A			
CH-140-6-PS-1	SUPPORT	VT89929	
CH-140-6-PS-4	SUPPORT	VT89929	
CH-140-6-PS-2	SUPPORT	VT89929	
CH-140-6-PS-3	SUPPORT	VT89929	
* ISOMETRIC: 0348D			
RC-72-6-R-11	SUPPORT	VT89837	
* ISOMETRIC: 0108B			
RH-24-1A-A-42	SUPPORT	VT89774	

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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0375C			
SI-74-5-DS-2	SUPPORT	VT89743	
* ISOMETRIC: 0375E			
SI-72-7-DS-1	SUPPORT	VT89853	
SI-72-7-R-322	SUPPORT	VT89853	
SI-72-7-R-323	SUPPORT	VT89853	
* ISOMETRIC: 0265A			
CH-77-2B-PS-R-2	SUPPORT	VT89598	
CH-77-3-VS-3	VALVE SUPPORT	VT89598	
CH-77-3-PS-R-1	SUPPORT	VT89598	
CH-80-2-R-50	SUPPORT	VB91001	
CH-80-2-VS-50A	SUPPORT	VB91001	
CH-80-2-R-51	SUPPORT	VB91001	
CH-80-3-R-51A	SUPPORT	VB91001	
* ISOMETRIC: 0266A			
CH-82-1-PS-R-2	SUPPORT	VB91002	
CH-82-1-PS-A-1	SUPPORT	VB91002	
* ISOMETRIC: 0267A			
CH-73-1-R-53	SUPPORT	VT89598	
CH-73-1-R-84	SUPPORT	VT89598	
CH-72-1-R-398	SUPPORT	VB91000	
* ISOMETRIC: 0065A			
WAPD-2-R-6	SUPPORT	VT89606	
WAPD-1-R-19	SUPPORT	VT89606	
* ISOMETRIC: 0164A			
CC-116-R-27C-2	SUPPORT	VT89821	
CC-116-R-18C-3	SUPPORT	VT89821	
* ISOMETRIC: 0179A			
CC-114-R-17D-3	SUPPORT	VT89819	
CC-114-R-10D-6	SUPPORT	VT89819	
CC-114-R-40D-1	SUPPORT	VT89819	
CC-118-R-26D-3	SUPPORT	VT89819	
** ASME ITEM NUMBER/EXAM CATEGORY: F03.050 F-C			
* ISOMETRIC: 0999A			
DLW-LOOP1-9-SH-3	SUPPORT	VT89850	

APPENDIX I - CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0999B			
DLW-LOOP2-9-SH-4	SUPPORT	VT89852	
* ISOMETRIC: 0999D			
DLW-PRESS-1-SH-1	SUPPORT	VT89882	
* ISOMETRIC: 0074A			
RH-1-1-SH-40	SUPPORT	VT89891	
RH-1-2-SH-39	SUPPORT	VT89933	LOOSE BOLTING REWORKED PER EM95096/MWR893846
		VB91038	
RH-1-3-SH-36	SUPPORT	VT89933	
* ISOMETRIC: 0107A			
RH-23-1-SH-11F	VALVE SUPPORT	VT89959	
* ISOMETRIC: 0108B			
RH-24-1-SH-42A	SUPPORT	VT89799	
* ISOMETRIC: 0267A			
CH-81-3-SH-233	SUPPORT	VB91000	
* ISOMETRIC: 0267B			
CH-81-7-SH-2-241-4	SUPPORT	VT89866	
CH-88-2A-PS-SH-25	SUPPORT	VT89866	
CH-89-2-PS-SH-20	SUPPORT	VT89866	
* ISOMETRIC: 0002A			
SHP-56-10-SH-10	SUPPORT	VT89765	UNSAT REWORKED EM95103/MWR893829 (EXPAND TO
		VT89945	SH-11/VT89824 SAT, SH-138/VT891023 UNSAT AAI
		VB91153	EM95115)
* ISOMETRIC: 0002B			
SHP-57-5-SH-15	SUPPORT	VT89764	NO LOAD PLATE REWORKED PER EM95103/MWR893830.
		VT89944	EXPANDED TO SH-16 ON VT89824.
		VB91096	
* ISOMETRIC: 0002C			
SHP-58-5-SH-20	SUPPORT	VT89763	
* ISOMETRIC: 0074B			
RH-18-1-SH-34	SUPPORT	VT89826	UNSAT LOAD SETTING ACCEPTED PER EM95047
		EM95047	
RH-18-1-SH-32	SUPPORT	VT89826	UNSAT LOCKNUT REWORKED PER EM95046/MWR893828
		VT89962	

APPENDIX I - CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0075A			
RH-9-1-SH-25	SUPPORT	VT89827	EM95057 ACCEPTS UNSAT SETTING
		EM95057	
RH-12-2-SH-6	SUPPORT	VB91012	
RH-12-3-SH-5A	SUPPORT	VB91012	
* ISOMETRIC: 0131A			
CC-105-SH-59A	SUPPORT	VT89788	
CC-4-SH-56A	SUPPORT	VT89788	
* ISOMETRIC: 0285A			
CC-113-SH-205A	SUPPORT	VT89618	EM95011 ACCEPTS UNSAT SETTING
		EM95011	
* ISOMETRIC: 0287A			
CC-125-SH-204A	SUPPORT	VT89611	INADEQUATE THREAD ENGAGEMENT REWORKED PER
		VB91032	EM95010/MWR893961.
		VB91122	

APPENDIX II

APPENDIX II - IE BULLETINS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER/EXAM CATEGORY:			
* ISOMETRIC: PZR SURGE			
	PRESSURIZER SURGE LINE	VT89833	VT89-833 PRE-INSUL REM'L (INFO ONLY) PER NDE
		VT89858	REQ# 150.
* ISOMETRIC: 0074A			
RH-74A-FIT1	FITTING	UT89334	
		PT89255	
RH-74A-FIT2	FITTING	UT89335	
		PT89262	
RH-74A-FIT3	FITTING	UT89344	
		PT89262	
RH-74A-FIT4	FITTING	UT89345	
		PT89262	
* ISOMETRIC: 0220C			
SI-220C-FIT5	FITTING	UT89351	SAT PT INDICATION
		PT89268	
SI-220C-FIT6	FITTING	UT89350	
		PT89268	
* ISOMETRIC: 0222B			
SI-222B-FIT7	FITTING	UT89316	
		PT89234	
SI-222B-FIT8	FITTING	UT89315	
		PT89234	
* ISOMETRIC: 0223B			
SI-223B-FIT9	FITTING	UT89263	
		PT89211	
SI-223B-FIT10	FITTING	UT89264	
		PT89211	
* ISOMETRIC: 0243A			
RC-243A-FIT11	FITTING	PT89246	
* ISOMETRIC: 0244A			
RC-244A-FIT12	FITTING	PT89259	2 UNSAT PT INDICATIONS REWORKED PER
		PT89294	EM95097/MWR893845.
* ISOMETRIC: 0245A			
RC-245A-FIT13	FITTING	PT89208	
* ISOMETRIC: 0254A			
RC-254A-FIT14	FITTING	PT89226	

APPENDIX II - IE BULLETINS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 0375C			
SI-375C-FIT15	FITTING	UT89265 PT89212	
* ISOMETRIC: 0375E			
SI-375E-FIT16	FITTING	UT89309 PT89232	
* ISOMETRIC: 0375F			
SI-375F-FIT17	FITTING	UT89352 PT89271	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.011 B-J			
* ISOMETRIC: 0074A			
RH-1-1-F-01	BUTT WELD	UT89332 PT89254	
RH-1-1-S-04	BUTT WELD	UT89333 PT89254	
RH-1-1-S-03	BUTT WELD	UT89338 PT89261	
RH-1-1-S-02	BUTT WELD	UT89337 PT89261	
RH-1-1-S-01	BUTT WELD	UT89336 PT89261	
RH-1-2-S-01	BUTT WELD	UT89342 PT89261	
* ISOMETRIC: 0220C			
SI-29-9-S-01	BUTT WELD	UT89353 PT89269	
SI-29-9-S-02	BUTT WELD	UT89354 PT89269	
SI-29-9-S-03	BUTT WELD	UT89355 PT89269	
SI-29-9-F-11	BUTT WELD	UT89357 PT89269	
* ISOMETRIC: 0222B			
SI-20-11-S-04	BUTT WELD	UT89314 PT89233	
SI-20-11-S-03	BUTT WELD	UT89313 PT89233	
SI-20-11-S-02	BUTT WELD	UT89312 PT89233	
SI-20-11-S-01	BUTT WELD	UT89311	

APPENDIX II - IE BULLETINS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
		PT89233	
* ISOMETRIC: 0223B			
SI-30-5-S-01	BUTT WELD	UT89260	
		PT89210	
SI-30-5-S-02	BUTT WELD	UT89262	
		PT89210	
SI-30-5-S-03	BUTT WELD	UT89261	
		PT89210	
SI-30-5-F-08	BUTT WELD	UT89259	
		PT89210	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.040 B-J			
* ISOMETRIC: 0243A			
RC-44-1-S-02	SOCKET WELD	PT89248	
RC-44-1-S-01	SOCKET WELD	PT89248	
* ISOMETRIC: 0244A			
RC-54-1-S-02	SOCKET WELD	PT89258	
RC-54-1-F-4A	SOCKET WELD	PT89258	
* ISOMETRIC: 0245A			
RC-64-1-S-02	SOCKET WELD	PT89209	
RC-64-1-S-01	SOCKET WELD	PT89209	
* ISOMETRIC: 0254A			
RC-72-5-F-08	SOCKET WELD	PT89225	
RC-72-5-S-10	SOCKET WELD	PT89225	

APPENDIX III

APPENDIX III - IE BULLETINS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER/EXAM CATEGORY: B07.030 B-G-2			
* ISOMETRIC: E-0001M			
RC-E-1A-AH-1	BOLTING	VT89630	
RC-E-1A-AH-2	BOLTING	VT89630	
RC-E-1A-AH-3	BOLTING	VT89630	
RC-E-1A-AH-4	BOLTING	VT89630	
RC-E-1A-AH-5	BOLTING	VT89630	
RC-E-1A-AH-6	BOLTING	VT89630	
RC-E-1A-AH-7	BOLTING	VT89630	
RC-E-1A-AH-8	BOLTING	VT89630	
RC-E-1A-AH-9	BOLTING	VT89630	
RC-E-1A-AH-10	BOLTING	VT89630	
RC-E-1A-AH-11	BOLTING	VT89630	
RC-E-1A-AH-12	BOLTING	VT89630	
RC-E-1A-AH-13	BOLTING	VT89630	
RC-E-1A-AH-14	BOLTING	VT89630	
RC-E-1A-AH-15	BOLTING	VT89630	
RC-E-1A-AH-16	BOLTING	VT89630	
RC-E-1A-AC-1	BOLTING	VT89631	
RC-E-1A-AC-2	BOLTING	VT89631	
RC-E-1A-AC-3	BOLTING	VT89631	
RC-E-1A-AC-4	BOLTING	VT89631	
RC-E-1A-AC-5	BOLTING	VT89631	
RC-E-1A-AC-6	BOLTING	VT89631	
RC-E-1A-AC-7	BOLTING	VT89631	
RC-E-1A-AC-8	BOLTING	VT89631	
RC-E-1A-AC-9	BOLTING	VT89631	
RC-E-1A-AC-10	BOLTING	VT89631	
RC-E-1A-AC-11	BOLTING	VT89631	
RC-E-1A-AC-12	BOLTING	VT89631	
RC-E-1A-AC-13	BOLTING	VT89631	
RC-E-1A-AC-14	BOLTING	VT89631	
RC-E-1A-AC-15	BOLTING	VT89631	
RC-E-1A-AC-16	BOLTING	VT89631	
RC-E-1B-BH-1	BOLTING	VT89630	
RC-E-1B-BH-2	BOLTING	VT89630	
RC-E-1B-BH-3	BOLTING	VT89630	
RC-E-1B-BH-4	BOLTING	VT89630	
RC-E-1B-BH-5	BOLTING	VT89630	
RC-E-1B-BH-6	BOLTING	VT89630	
RC-E-1B-BH-7	BOLTING	VT89630	
RC-E-1B-BH-8	BOLTING	VT89630	
RC-E-1B-BH-9	BOLTING	VT89630	
RC-E-1B-BH-10	BOLTING	VT89630	
RC-E-1B-BH-11	BOLTING	VT89630	

APPENDIX III - IE BULLETINS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
RC-E-1B-BH-12	BOLTING	VT89630	
RC-E-1B-BH-13	BOLTING	VT89630	
RC-E-1B-BH-14	BOLTING	VT89630	
RC-E-1B-BH-15	BOLTING	VT89630	
RC-E-1B-BH-16	BOLTING	VT89630	
RC-E-1B-BC-1	BOLTING	VT89630	
RC-E-1B-BC-2	BOLTING	VT89630	
RC-E-1B-BC-3	BOLTING	VT89630	
RC-E-1B-BC-4	BOLTING	VT89630	
RC-E-1B-BC-5	BOLTING	VT89630	
RC-E-1B-BC-6	BOLTING	VT89630	
RC-E-1B-BC-7	BOLTING	VT89630	
RC-E-1B-BC-8	BOLTING	VT89630	
RC-E-1B-BC-9	BOLTING	VT89630	
RC-E-1B-BC-10	BOLTING	VT89630	
RC-E-1B-BC-11	BOLTING	VT89630	
RC-E-1B-BC-12	BOLTING	VT89630	
RC-E-1B-BC-13	BOLTING	VT89630	
RC-E-1B-BC-14	BOLTING	VT89630	
RC-E-1B-BC-15	BOLTING	VT89630	
RC-E-1B-BC-16	BOLTING	VT89630	
RC-E-1C-CH-1	BOLTING	VT89631	
RC-E-1C-CH-2	BOLTING	VT89631	
RC-E-1C-CH-3	BOLTING	VT89631	
RC-E-1C-CH-4	BOLTING	VT89631	
RC-E-1C-CH-5	BOLTING	VT89631	
RC-E-1C-CH-6	BOLTING	VT89631	
RC-E-1C-CH-7	BOLTING	VT89631	
RC-E-1C-CH-8	BOLTING	VT89631	
RC-E-1C-CH-9	BOLTING	VT89631	
RC-E-1C-CH-10	BOLTING	VT89631	
RC-E-1C-CH-11	BOLTING	VT89631	
RC-E-1C-CH-12	BOLTING	VT89631	
RC-E-1C-CH-13	BOLTING	VT89631	
RC-E-1C-CH-14	BOLTING	VT89631	
RC-E-1C-CH-15	BOLTING	VT89631	
RC-E-1C-CH-16	BOLTING	VT89631	
RC-E-1C-CC-1	BOLTING	VT89631	
RC-E-1C-CC-2	BOLTING	VT89631	
RC-E-1C-CC-3	BOLTING	VT89631	
RC-E-1C-CC-4	BOLTING	VT89631	
RC-E-1C-CC-5	BOLTING	VT89631	
RC-E-1C-CC-6	BOLTING	VT89631	
RC-E-1C-CC-7	BOLTING	VT89631	
RC-E-1C-CC-8	BOLTING	VT89841	EM95014 ACCEPTS UNSAT THREAD DAMAGE
		EM95014	

APPENDIX III - IE BULLETINS

DUQUESNE LIGHT COMPANY
BVPS UNIT 1 1989 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
RC-E-1C-CC-9	BOLTING	VT89631	
RC-E-1C-CC-10	BOLTING	VT89631	
RC-E-1C-CC-11	BOLTING	VT89631	
RC-E-1C-CC-12	BOLTING	VT89631	
RC-E-1C-CC-13	BOLTING	VT89631	
RC-E-1C-CC-14	BOLTING	VT89631	
RC-E-1C-CC-15	BOLTING	VT89631	
RC-E-1C-CC-16	BOLTING	VT89631	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.080 B-G-2			
* ISOMETRIC: E-0001J			
CONOSEAL BOLT ASSEMBLY 47	BOLTS AND NUTS	VT89963	
CONOSEAL BOLT ASSEMBLY 49	BOLTS AND NUTS	VT89963	
CONOSEAL BOLT ASSEMBLY 51	BOLTS AND NUTS	VT89963	
CONOSEAL BOLT ASSEMBLY 53	BOLTS AND NUTS	VT89963	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.051 C-F-2			
* ISOMETRIC: 0062A			
WFPD-24-7C-F-01A	PIPE WELD	UT89393	BASELINE EXAMS OF MWR894035
		MT89125	
		RT89032	
WFPD-24-7C-F-02A	PIPE WELD	UT89395	BASELINE EXAMS OF MWR894035
		MT89125	
		RT89033	
** ASME ITEM NUMBER/EXAM CATEGORY: F03.050 F-C			
* ISOMETRIC: 0999D			
DLW-PRESS-1-SH-2	SUPPORT	VT89882	UNSAT LOOSE LOCK NUT. SUPP'T REPLCD PER DCP OT-0417 1431. NEW SUPP'T INSPCTD PER MIR OT-0417.

APPENDIX IV

APPENDIX IV
UNSAT SUMMARY
UNIT 1 7R

COMPONENT	REJECTING REPORT	EM NUMBER MWR NUMBER	DESCRIPTION	CLOSING DOC'MT
CC-125-SH-204A	VT89611	95010-A 893961	CORRODED BOLT, LOOSE NUT	VT891032
CC-113-SH-205A	VT89618	95011-A	OUT OF TOLERANCE SETTING	EM95011
SI-16-3-PSR-061B	VT89610	95012-A 894801	STRUT FROZEN(PAINTED BEAR'G), SPACER NEEDED	VT891124
SI-26-3-PSR-070A	VT89607	95013-A 893962	LUBE BEARING, LOOSE NUT	VT891127
BCC-C (NUT)	VT89619	95014-A	DAMAGED THREAD	VT89841
SA-193-B7-C170 (STUD)	VT89622	95014-A	GALLED THREAD	VT89842
WAPD-25-PSA-001	VT89608	95015-A	GAPS BETW WALL & BASE PLATE	EM95015
SI-133-6A-S-04	PT89193	95016-A 893434	LINEAR	PT89272
ARC STRIKE	PT89196	95017-A 892214	ARC STRIKE NEAR SI-1B-1-S-05	PT89274
SI-26-3-PSR-070B	VT89745	95021-A	PAINTED BEARING	EM95021
P11-J-PSR-36B	VT89756	95021-A	PAINTED BEARING	EM95021
SI-16-3-PSR-062C	VT89767	95021-A	PAINTED BEARING	EM95021
FC-8-R-1B	VT89759	95023-A	BOLTING COCKED, NOT FLUSHED	EM95023
CC-125-A-21	VT89761	95022-A	LACK OF THREAD ENGAGEMENT	EM95022
SHP-57-5-SH-15	VT89764	95024-A 893830	SETTING OUT OF TOLERANCE	EM95103
SHP-56-10-SH-10	VT89765	95024-A 893829	SETTING OUT OF TOLERANCE	EM95103
P11-J-R-36	VT89818	95044-A 893834	SPALLING CHIPPING OF BASEPLATE	VT891125
CC-66-A-77	VT89831	95045-A	LACK OF THREAD ENGAGEMENT	EM98045
RH-1B-1-SH-32	VT89826	95046-A 893828	LOOSE NUT	VT89962
RH-1B-1-SH-34	VT89826	95047-A	OUT-OF-TOLERANCE SETTING	EM95047
CC-TK-A-SUPP-1	VT89823	95055-A	BOLTING NOT FLUSH	EM95055
RH-9-1-SH-25	VT89827	95057-A	SPRING CAN SETTING?	EM95057
BCC-C (NUT)	VT89841	95014-A	MANUFACTURING DEFECT	EM95014
SA-193-B7-C170 (STUD)	VT89842	95014-A	MANUFACTURING DEFECT	EM95014
RH-E-1A-SUPP-1,-2	VT89848	95058-A 894450	LOOSE NUTS, BORIC ACID	VT891130
1" SI-54 U-BOLT	VT89868	95069-A 893838	LOOSE NUT	VT891043
RC-72-4B-A-7	VT89861	95071-A 893849	LACK OF THREAD ENGAGEMENT	VT891156
RC-72-4-R-6	VT89872	95071-A	LACK OF THREAD ENGAGEMENT	EM95071
CH-94-1-PS-R-26	VT89864	95072-A	LACK OF THREAD ENGAGEMENT, HILTI BOLT MISSING	EM95072
RH-E-1B-SUPP-2	VT89878	95073-A	NUTS NOT FLUSH	EM95073
CH-E-2-REST	VT89869	95074-A	LACK OF THREAD ENGAGEMENT	EM95074
SI-26-3-PSR-70A	VT89879	95075-A 894803	LOOSE NUT, WASHERS IMPROPERLY INSTALLED	VT891127
RC-P-IC FLYWHEEL	PT89228	95068-A 893831	LINEAR INDICATIONS	PT89275

UNSAT SUMMARY
UNIT 1 7R

COMPONENT	REJECTING REPORT	EM NUMBER MWR NUMBER	DESCRIPTION	CLOSING DOC'MT
WFPD-22-8F-F-02	MT89065	95079-A 893835	LINEAR INDICATIONS	MT89081
DLW-PRESS-1-SH-2	VT89882	95080-A 893836	LOOSE LOCK NUT. SH-2 REPL'D PER DCP1431.	MIR#OT0417
1SI-51-B-16	VT89885	95082-A	LACK OF THREAD ENGAGEMENT	EM95082
1SI-23-B-4,-8	VT89890	95082-A	LACK OF THREAD ENGAGEMENT	EM95082
SI-74-4-R-312A	VT89892	95083-A	NO MOVEMENT, PAINTED BEARINGS	EM95021
CH-74-1-R-54	VT891000	95084-A 893658	CRACK IN WALL	Q-97394
PCV-RC-455A-BOLTS	VT891004	95085-A 893842 UT89331	LOOSE NUTS	EM65008
DG-56-3-S-01	PT89243	95087-A 893839	LINEAR INDICATIONS	PT89286
DG-54-3-F04	PT89243	95087-A 893840	LINEAR INDICATIONS	PT89286
RC-104-1-SH-43	VT89912	95088-A	SETTING MEASUREMENTS?	EM95088
SI-73-4-R-305A	VT89916	95089-A 893837	LOOSE NUT	VT89981
MOV-RC-536-B-4,-5	VT89918	95090-A 893843	DEFORMED THREADS	VT89979
RH-1-2-SH-39	VT89933	95096-A 893846	LOOSE NUTS	VT891038
RC-244A-FIT-12	PT89259	95097-A 893845	TWO INDICATIONS	PT89294
CH-141-2-F-03	PT89258	95098-A 893844 WP89155	BASE METAL INDICATION	PT89295
SHP-56-10-SH-10	VT89945	95103-A 893829	AWAITING EM ON SETTING MEASUREMENTS	VT891153
SHP-57-5-SH-15	VT89944	95103-A 893830	AWAITING EM SETTING MEASUREMENTS	VT891096
CH ARC STRIKES	VT89946	95107-A 893847,-48	NEAR WELDS CH-23-3-S-03 AND CH-23-4-F-06 (VT891040)	VT891039
WFPD-24-7C-F-01	UT89369	95110-A	UT INDICATIONS	EM95110
RH-8-1-SH-15	VT891014	95112-A	SETTING ACCEPTABILITY?	EM95112
RH-8-1-SH-17	VT891014	95112-A	SETTING ACCEPTABILITY?	EM95112
RH-8-1-SH-13	VT891022	95114-A 893850	LOOSE LOCK NUT	VT891099
SHP-25-SH-138	VT891023	95115-A	SETTING?	EM95115
RH-12-3-R-5	VT891031	95116-A 894500	MISSING/LOOSE NUTS	VT891098
RH-12-5-R-3	VT891031	95116-A 894802	LOOSE NUT	VT891098
SI-TK-2-WS-4	PT89300	95121-A	LINEAR INDICATION	EM95121
RH-12-4-SH-4A	VT891013	NA	LOOSE LOCK NUT	VT891013
WFPD ARC STRIKES	VT891101	95123-A 894817,18,19	NEAR ATT WELDS	MT89149,61
WFPD-24-5-A-6	MT89150	95129-A 894829	LINEAR INDICATION	MT89161

APPENDIX V

Form No. 142

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name) Date 1/22/90
   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 1
2. Plant Beaver Valley Power Station (Name) Unit No. 1
   Shippingport, PA 15077 (Address) MWR 893724 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by DLCo - Maint. Dept. (Name) Type Code Symbol Stamp Not Applicable
   Shippingport, PA 15077 (Address) Authorization No. "
   Expiration Date "
4. Identification of System Main Steam
5. (a) Applicable Construction Code ANSI B16.34 19 73 Edition, ——— Addenda, ——— Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No. (Model)	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-18	Crane Valve	175-1/2XR	N/A	3 inch Check Valve	1973	Repaired	No
Disc	Crane Valve	D847	N/A	———	1989	Replaced	No

7. Description of Work Overhauled valve, replaced valve internals.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Disc material is A217 GR CA15 and was built to ANSI B16.34 - 1988
Applicable Manufacturer's Data Reports to be attached
Reference CDER MM 0695

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Date 2/8/90, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/5/89 to 2/8/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Inspector's Signature Commissions NB 8771 PA 2266 National Board, State, Province, and Endorsements

Date 2/8 19 90

(12/82)

Form No. 143

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 1/22/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 893725 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Main Steam

5. (a) Applicable Construction Code ANSI B16.34 19 73 Edition, ——— Addenda, ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No. (Model)	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-19	Crane Valve	175-1/2XR	N/A	3 inch Check Valve	1973	Repaired	No
Disc	Crane Valve	D847	N/A	———	1989	Replaced	No

7. Description of Work Overhauled valve, Replaced valve internals.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks: Disc material is A217 CR CA15 and was built to ANSI B16.34 - 1988.

Applicable Manufacturer's Data Reports to be attached

Reference CDER MM 0694

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] (Owner or Owner's Designee, Title) Date 2/8 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/1/89 to 2/8/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions NB 7791 PA 2164 (National Board, State, Province, and Endorsements)

Date 2/8 19 90

(12/82)

Form No. 144

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 1/22/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 883130 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No.
Expiration Date

4. Identification of System Main Steam

5. (a) Applicable Construction Code ANSI B16.34 19 73 Edition, ——— Addenda, ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No. (Model)	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-80	Crane Valve	175-1/2XR	N/A	3 inch Check Valve	1973	Repaired	No
Disc	Crane Valve	D847	N/A	———	1989	Replaced	No

7. Description of Work Overhauled valve, replaced valve internals.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9 Remarks: Disc material is A217 GR CA15 and was built to ANSI B16.34 - 1988

Applicable Manufacturer's Data Reports to be attached

Reference CDER MM 692

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: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: Daniel M Huff Date: 2/8 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/5/84 to 2/8/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

Inspector's Signature

Commissions NB 8991 PA 7266
National Board, State, Province, and Endorsements

Date 2/8 19 90

(12/82)

Form No. 145

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 1/22/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 893780 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Ch. 36 4KV Station Services Sys. - Diesel Gen. Air Start Sys.

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition S'71 Addenda ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
DA-109 Valve	Smith Valve Co.	F12 SR	N/A	1 1/2" Ball Valve	—	Replaced	No
DA-109 Valve	Smith Valve Co.	8409024	N/A	1 1/2" Ball Valve	—	Replacement	No

7. Description of Work Replacement of existing valve with new (Threaded ends).

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure ____ psi Test Temp. ____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (800030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9 Remarks No NPV-1 form.

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 Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel W Hall Date 2/8 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 4/1/89 to 2/8/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

Mark R Smith Commissions NB 2771 PA 2206
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/8 19 90

(12/82)

Form No. 145

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 1/22/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 890280
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Auxiliary Feedwater

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, ---- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FW-39	Crane Valve	----	N/A	6 inch gate valve	N/A	Repaired	No
Gate	Crane Valve	----	N/A	----	N/A	Repaired	No

7. Description of Work Machined .010 inches from the seating are of the valve's gate to remove slight indication

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks: No NPV-1 form.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] (Owner or Owner's Designee), Title Date 2/8/90, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/17/88 to 2/8/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions NB 8441 PA2266 (National Board, State, Province, and Endorsements)

Date 2/8 19 90

(12/82)

Form No. 147

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 1/22/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 882225 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition S'71 Addenda ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PCV-RC-455D	Masonelian	H-20693 -5-4	N/A	3 inch globe valve	N/A	Repaired	No
Plug	Masonelian	None	N/A	———	N/A	Repaired	No

7. Description of Work Machined .005 inches off of plug and seat ring seating areas to remove slight indications.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks: Valve trim was manufactured to ANSI B16.5-68.

Applicable Manufacturer's Data Reports to be attached

No NPV-1 form.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: [signature] (Owner or Owner's Designee, Title) Date: 2/5/90, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/2/88 to 2/8/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions: [illegible] (National Board, State, Province, and Endorsements)

Date: 2/8 19 90

(12/82)

Form No. 1-8

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/7/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #893299 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Main Steam

5. (a) Applicable Construction Code B16.34 19 73 Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-82	Crane Valve	175 1/2 XR	N/A	3" Check Valve	1973	Repaired	No
Disc	Crane Valve	D847	N/A	____	1989	Replacement	No

7. Description of Work Overhauled valve, replaced valve internals.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure ____ psi Test Temp. ____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks: No NPV-1 form. Disc manufactured to ANSI B16.34: 1988E.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date Feb 15, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/5/89 to 2/15/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions [illegible] (National Board, State, Province, and Endorsements)

Date 2/15 19 90

(12/82)

Form No. 1-9

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/7/90

Sheet 1 of 2

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR #843176
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Main Steam

5. (a) Applicable Construction Code B31.1 19 67 Edition S'71 Addenda ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HCV-MS-104	Masoneilan	H-49378-264	N/A	4" Globe Valve	1974	Repaired	No
Plug	Masoneilan	475000-RH3-1A2	N/A	———	1989	Replacement	No

7. Description of Work Replaced valve trim (internals), weld build-up cage seating surface.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Plug build to ASME III, Class 2, 1986 Ed. CMTR attached.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel M. Huff (Owner or Owner's Designee, Title) Senior Engineer Date Feb 15 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period [illegible] to 2/15/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

M.R. [illegible] (Inspector's Signature) Commissions [illegible] 874 PA [illegible] (National Board, State, Province, and Endorsements)

Date 2/15 19 90

(12/82)

5605 S

COULTER STEEL & FORGE COMPANY

Special Metals in Bars and Forgings - Tool ... ls

1494 67TH STREET
P.O. BOX 8008 EMERYVILLE, CA 94662-0001
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1230 RIO VISTA AVENUE LOS ANGELES, CA 90023 ... 213-261-6115 - TELEX 677340
334 WEST EIGHTH SOUTH SALT LAKE CITY, UT 84101 ... 801-322-3533 - TELEX 388330
500 SO. LANDER STREET SEATTLE, WA 98134 ... 206-622-6060 - TELEX 329463

METALLURGICAL REPORT

MASONEILAN/DRESSER IND
ATTN ACCOUNTS PAYABLE
85 BODWELL STREET
AVON MA 02322

CUSTOMER ACCT NO	
55540	
CODE	INVOICES
5-6-7	2
TAXABLE	NON TAXABLE
	X

PURCHASE ORDER NO: P684533

ORDER DATE: 27 OCT 1987

*YELLOW

MASONEILAN/AVON OPER
?? BODWELL STREET
... INDUSTRIAL PARK
... MA 02322-0000

PREPAY	COLLECT
	COL

DATE SHIPPED:

ITEM	ORDER	SHIPPED	DESCRIPTION
			... STAINLESS STEEL, GRADE 630 (17-4PH) SOLUTION AND ... PRECIPITATION HEAT TREATED, H-1075 CONDITION; IN ACCORDANCE ... ASME-SA-564 ASME BOILER & PRESSURE VESSEL CODE ... III, CLASS 2 AND 3, 1986 EDITION 10CFR PART 21 ...
	1		BAR T.F. 4-3/4" DIA X 72" LONG P/N 475309-BH3-1A2

...ING AND PACKAGING REQUIREMENTS	METALLURGICAL REPORT REQUIREMENTS: NOTARIZE	W/SHIPMENT	W/B LADING
...		2	1
	MAIL 0	COPIES TO	

Ite. No.	Heat No.	C	Mn	P	S	Si	Cr	Ni	Mo	CB	...
	Ladle 676330	.036	.46	.023	.010	.61	15.32	4.15	.22	.24	
							TA	CU	CO		
							.010	3.25	.05		
	LOT NO.	13344									

Item No.	Hardness of Material Supplied	Tensile	Yield .2% Offset	El	R.A.	Brinell	Size of Raw Stock	Mill
		161,700	154,300	15%	54.8	363	8"RCS	ARMCO

MACRO ETCH: SATISFAC.
FERRITE: <1.0%
FREQ/SEV: 0/0

Charpy V-notch impacts at room temp.:

Ft/lbs.	Lat.Exp.(mils)	% Shear
43	29	60
47	32	60
45	38	60

Heat treatment: 1) Solution heat treated at 1900±25°F for 1 hour and oil quenched; and 2) aged at 1075±15°F for 4 hours and air cooled

Q.A. APPROVED BY ... DATE ... MASONEILAN

We certify that no weld repair has been performed on the material supplied for this purchase order.

ASME QUALITY SYSTEM CERTIFICATE (MATERIALS)
NUMBER QSC-210
EXPIRATION DATE OF CERTIFICATE 8-4-90

We certify that the contents of this report are correct and accurate, and that all operations performed by us and our subcontractors are in compliance with the requirements of all specifications listed in the material description. Our warranty of quality provides for replacement only of any part of this material which subsequent inspection, test or use shows non-conformance with the specifications. Inspection records, certifications, chemical and/or physical test reports are on file for your examination at EMERYVILLE, CALIFORNIA.

November 18, 1987

COULTER STEEL & FORGE COMPANY

By [signature]
PETER TOWNSEND
QUALITY ASSURANCE MANAGER

Form No. 150

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/7/90
Sheet 1 of 2

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #878104 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Fire Protection

5. (a) Applicable Construction Code B31.1 19 67 Edition S'71 Addenda ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
TV-FP-103	Masoneilan	N00228-004	N/A	4" Globe Valve	———	Repaired	No
Plug	Masoneilan	———	N/A	013537-071 -1Y4	1988	Replacement	Yes

7. Description of Work Replaced existing trim with soft seat trim.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks: N-2 form attached. Replacement plug manufactured to ASME
Applicable Manufacturer's Data Reports to be attached
Section III, 1971E-S'73 Addenda, Class 2.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: David M Huff, Senior Engineer (Owner or Owner's Designee, Title) Date: Feb 15, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/22/89 to 2/15/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions: NB [illegible] PA [illegible] (National Board, State, Province, and Endorsements)

Date: 2/15 19 90

(12/82)

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III

Not To Exceed One Day's Production

1. Manufactured and certified by Masoneilan-Dresser Industries, 85 Bodwell St., Avon, Ma. 02322
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Company, 301 Grant St., Pittsburgh, Pa. 15279
(name and address of purchaser)

3. Location of installation Duquesne Light Company, Beaver Valley Unit 1, Shippingport, Pa.
(name and address)

4. Type P10362 (drawing no.) | ASME SA479/316 (mat'l. spec. no.) | 81,400 (tensile strength) | NA (CRN) | 1988 (year built)

5. ASME Code, Section III: 1971 (edition) | SUMMER 1973 (addenda date) | 2 (class) | NA (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) NA (no.) Revision NA Date NA

7. Remarks: Replacement for Masoneilan Valve Serial No. N00228-004

Tag No. TV-FP-105

Masoneilan Part No. 013537-071-1Y4

8. Nom. thickness (in.) NA Min. design thickness (in.) NA Dia. ID (ft & in.) NA Length overall (ft & in.) NA

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

	Part or Appurtenance Serial Number HEAT NUMBERS	National Board No. in Numerical Order
(1)	B654592-7 INSERT RETAINER	
(2)	LG3875-56 SKIRT	
(3)	90149-27 SHANK	
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 175 psi. Temp. 85 °F. Hydro. test pressure NA (when applicable) at temp. °F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/86)

This form (E00060) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM N-2 (back)

Mfr. Serial No. N-350228-001

CERTIFICATION OF DESIGN

Design specifications certified by Carl Richardson (when applicable) P.E. State Pa. Reg. no. 16297-E

Design report* certified by NA (when applicable) P.E. State NA Reg. no. NA

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) 4" Plug S/A conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1837 Expires 8-19-88

Date 1-18-88 Name Masoneilan-Dresser Industries (NPT Certificate Holder) Signed [signature] (Authorized representative)

CERTIFICATE OF SHOP 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 Ma. and employed by H.S.B.I. & I. Co. of Hartford, Ct. have inspected these items described in this Data Report on 18 January 1988, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.

Date 1-18-88 Signed [signature] (Authorized Inspector) Commissions MA-1222/PA-WC2514 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

Form No. .11

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name) — Date 2/7/90
One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (Name) — Unit No. 1
Shippingport, PA 15077 (Address) — MWR #878105 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name) — Type Code Symbol Stamp Not Applicable
Shippingport, PA 15077 (Address) — Authorization No. "
Expiration Date "

4. Identification of System Fire Protection

5. (a) Applicable Construction Code B31.1 19 67 Edition S'71 Addenda — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
TV-FP-106	Masoneilan	N00168-061	N/A	3" Globe Valve	—	Repaired	No
Plug	Masoneilan	85718-4	N/A	011490-285-1A2	1988	Replacement	Yes

7. Description of Work Replaced existing trim with soft seat trim.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks: N-2 form attached. Replacement plug manufactured to ASME Section III, 1971E-S'73 Addenda, Class 2.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: David M. Hoff [signature], Senior Engineer (Owner or Owner's Designee, Title) Date: Feb 15, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 2/19/86 to [illegible], 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions: [illegible] 8441 PA 1166 (National Board, State, Province, and Endorsements)

Date: 2/25 19 86

(12/82)

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III

Not To Exceed One Day's Production

1. Manufactured and certified by Masoneilan-Dresser Industries, 85 Bodwell St., Avon, Ma. 02322
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Company, 301 Grant St., Pittsburgh, Pa. 15279
(name and address of purchaser)

3. Location of installation Duquesne Light Company, Beaver ValleyUnit 1, Shippingport, Pa.
(name and address)

4. Type P10435 (drawing no.) ASME SA564/630 (mat'l. spec. no.) 164,300 (tensile strength) NA (CRN) 1988 (year built)

5. ASME Code Section III: 1971 (edition) SUMMER 1973 (addenda date) 2 (class) NA (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) NA (no.) Revision NA Date NA

7. Remarks: Replacement for Masoneilan Valve Serial No. N00168-061

Tag No. TV-FP-106

Part No. 011490-285-1A2

8. Nom. thickness (in.) NA Min. design thickness (in.) NA Dia. ID (ft & in.) NA Length overall (ft & in.) NA

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

	Part or Appurtenance Serial Number HEAT NUMBER	National Board No. in Numerical Order
(1)	85718-4	
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
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(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10 Design pressure 175 psi Temp. 85 °F Hydro. test pressure NA (when applicable) at temp. °F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/86)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM N-2 (back)

Mfr. Serial No. N-350228-002

CERTIFICATION OF DESIGN

Design specifications certified by Carl Richardson (when applicable) P.E. State Pa. Reg. no. 16297-E

Design report* certified by NA (when applicable) P.E. State NA Reg. no. NA

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) 3" Plug conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1837 Expires 8-19-89

Date 1-18-88 Name Masoneilan-Dresser Industries (NPT Certificate Holder) Signed John Kerr (authorized representative)

CERTIFICATE OF SHOP 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 Pa. and employed by H.S.B.I. & I. Co.

of HARTFORD CT have inspected these items described in this Data Report on 18 JANUARY 1988, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or of any kind arising from or connected with this inspection.

Date 1-18-88 Signed J L C Evans (Authorized Inspector) Commissions NB-1222/PA-WC 2514 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

Form No. [illegible]

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/7/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #882234 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo -Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Safety Injection

5. (a) Applicable Construction Code B31.1 19 67 Edition S'71 Addenda ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SI-421	Rockwell International	———	N/A	2" Globe Valve	———	Replaced	No
SI-421	Rockwell International	———	N/A	2" Globe Valve	———	Replacement	No

7. Description of Work Replaced valve with a newer style.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 925 psi Test Temp. 71 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks: No NPV-1 form. Replacement valve manufactured to ASME Section III.
Applicable Manufacturer's Data Reports to be attached
Div. 1 1977E-W'77 Addenda, P.O. # C018713

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed David M Hall Senior Eng. (Owner or Owner's Designee, Title) Date Feb 15 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period [illegible] to [illegible], 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Inspector's Signature Commissions [illegible] (National Board, State, Province, and Endorsements)

Date 2/15 19 90

(12/82)

Form No. 133

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/7/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #882235 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Safety Injection

5. (a) Applicable Construction Code B31.1 19 67 Edition S'71 Addenda ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SI-429	Rockwell International	———	N/A	2" Globe Valve	———	Replaced	No
SI-429	Rockwell International	———	N/A	2" Globe Valve	———	Replacement	No

7. Description of Work Replaced valve with a newer style.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 925 psi Test Temp. 71 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks: No NPV-1 form. Replacement valve manufactured to ASME Section III.
Applicable Manufacturer's Data Reports to be attached
Div. 1, 1977E-W'77 Addenda, P.O. # CO18713.

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 Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed David Mitchell Senior Eng Date Feb. 15 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period [illegible] to 2/15/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

M.R. Smith Commissions NB 8741 PA 1666
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/15 19 90

(12/82)

Form No. [illegible]

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/8/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #893233 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Diesel Generator Air Start Piping

5. (a) Applicable Construction Code B31.1 19 67 Edition S'71 Addenda ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping	Stone and Webster	Line Nos. (see back)	N/A	Diesel Air Start Piping	———	Replaced	No
Piping	Stone and Webster	Line Nos. (see back)	N/A	Diesel Air Start Piping	1989	Replacement	No

7. Description of Work Replacement of D/G #2 Air Start Piping

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐
Other ☐ Pressure 276 psi Test Temp. 69 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Line nos. (1 1/2" - ASC - xx - 151 - Q3): ASC-76, ASC-77,
Applicable Manufacturer's Data Reports to be attached
ASC-78, ASC-79, ASC-80, ASC-81, ASC-82 were replaced.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed Robert A. Kubinic Maint. Eng. I (Owner or Owner's Designee, Title) Date 2/14 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 2/13/89 to 2/15/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

M. R. Merril (Inspector's Signature) Commissions NB 8444 PA 1166 (National Board, State, Province, and Endorsements)

Date 2/15 19 90

(12/82)

Form No. 133

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/9/90
Sheet 1 of 2

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #883420 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Recirculation Spray

5. (a) Applicable Construction Code Sect. III.C 19 68 Edition, W'71 Addenda, ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RS-E-1B	Industrial Process Eng.	6301-2	3180	Recirc Spray Heat Exch.	1971	Repaired	Yes

7. Description of Work Mechanically plugged thirty-two (32) tubes, pulled one (1) tube and seal welded plug to tubesheet.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure 93.5 psi Test Temp. 70 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-1 form attached.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date 2/15 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/1/89 to 2/15/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions [illegible]
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/16 19 90

(12/82)

If comparable, below enter (Material, Spec. No., T.S., Size, Number)

Other fastening

9. Constructed for max. allowable working press. 150 psi at max. temp. 280 °F. Min. temp. (when less than -20°) ______ °F. Hydrostatic Test Press. 250

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary, Material SA240-304L (Kind & Spec. No.) Diam. ____ In. Thickness ____ In. Attachment ____

Floating, Material ____ (Kind & Spec. No.) Diam. ____ In. Thickness ____ In. Attachment ____

11. TUBES: Material SA213 seml's TP 304L (Kind & Spec. No.) O.D. 5/8" In. Thickness 20 Gage Number ____ Type ____

Items 12-15 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

12. SHELL: Material SA515-70 (Kind and Spec. No.) T.S. 70,000 (Min. of R.S. Spec. No. T.S.) Nominal Thickness 7/16 In. Corrosion Allowance 0 In. Diam. 2 Ft. 7 In. Length 3 Ft.

13. SEAMS: Long. D.B.W. (Welded, Dbl., Single, Lap, Butt) H.T. Yes (Yes or No) R.T. complete (Spot or Complete) Efficiency 100 %
SEE Fig.
Girth NB-1352-1(C) H.T. Yes R.T. complete No. of courses 1

14. HEADS (a) Material ____ T.S. ____ (b) Material SA515-70 T.S. 70,000 (c) Material ____ T.S. ____

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top, bottom, ends							37"	
(b) Channel	1-13/16"							
(c) Floating								

If removable, bolts used (a) ____ (b) 24 bolts-3/4"dia.-SA193-B7

(c) ____ Other fastening ____

15. Constructed for max. allowable working press. 150 PSI-Int. at max. temp. 280 °F. Min. temp. (when less than -20°) ______ °F. Hydrostatic Test Press. 225

Items below to be completed for all vessels where applicable.

16. SAFETY VALVE OUTLETS: Number ____ Size ____ Location ____

17. NOZZLES

Purpose (Inlet, Outlet, Drain etc.)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Shell	1	14 x 10	B.W.Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	14 x 12	B.W.Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	1"	Weld End	SA312	.109	--------	Welded
Shell	1	1/8"	Coup. Thr'd.	SA182F304L	6000#	--------	Welded
Shell	1	14"	Weld End	SA53-B	.438	SA515-70	Welded
Channel	2	14"	Weld End	SA53-B	Sch. 80	--------	Welded
Channel	2	1/2"	Weld End	SA53-B	Sch. 80	--------	Welded

ST. COPY	ID. NO.	MAJOR	MINOR	UNIT	D.D.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FORM U-1 (back)

18. INSPECTION OPENINGS: Manholes, No. ______ Size ______ Location ______
Handholes, No. ______ Size ______ Location ______
Threaded, No. ______ Size ______ Location ______

19. SUPPORTS: Skirt No (Yes or No) Lugs Four (Number) Legs ______ (Number) Other ______ (Describe) Attached ______

20. REMARKS: Recirculation Spray Cooler TEMA Type C.E.N.
Item No. RS-E-1B - I.O. No. 11700 - RCV - 75
Contents: Shell Side Spray Water - Tube Side River Water
Vessel Certified as ASME Code Section III Class "C" Unit by John H. Noble
Registered P.E. #11501-E, Commonwealth of Pennsylvania and is
constructed in accordance with the winter 1968 Addenda of ASME Section III, Article 21.

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.)

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date December 14 19 71 Signed Industrial Process Engineers (Manufacturer) By S. B[illegible]

Certificate of Authorization Expires December 31, 1973

CERTIFICATE OF SHOP INSPECTION

Vessel made by Industrial Process Engineers at Newark, New Jersey

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N. J. and employed by The State of ______ have inspected the pressure vessel described in this manufacturer's data report on December 3 19 71, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date December 14, 19 71

[signature] Commissions NB#6575 Penna-WC 1879
Inspector's Signature — Nat'l Board, State, or Province and No.

			MAJOR	MINOR	UNIT	
M	RS	RS-E-1B	P	2.4	1	75

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province ______ and employed by ______ of ______ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items ______, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure vessel Code. The described vessel was inspected and subjected to a hydrostatic test of ______ psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date ______ 19 ____

______ Commissions ______
Inspector's Signature — Nat'l Board, State, or Province and No.

P

Printed in U.S.A. (9/68)

01604

INDUSTRIAL PROCESS ENGINEERS
NEWARK, N.J.

U
N
DIVISION
W
PHT
RT

	Shell	Tube 150 PSI INT
SERIAL NUMBER	6301-2	
NATIONAL BOARD NO.	3180	
MAX. WORK PRESS.	150 PSI	48 PSI EXT
MAX. WORK TEMP.	280°F	280°F
THICKNESS	1/4 5/16 7/16	HD.CVR 1 9/16
HYDRO TEST PRESS.	250 PSI	225 PSI
STATE NUMBER		
YEAR BUILT	1971	

CUST. ITEM NO. RS-E-1B

SYS. CODE
65
EQ. ID. NO.
RS-E-1B
MAJOR
P
MINOR
24
PO.
25

11700 BV-75

P

S.W.E.C. PQC INSPECTED

R.K. Day

RECEIVED
JAN 4 1972
Stone & Webster Engineering

Form No. 136

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/9/90
Sheet 1 of 2

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #894449 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Recirculation Spray

5. (a) Applicable Construction Code Sect. III.C 19 68 Edition, W'71 Addenda, ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RS-E-1C	Industrial Process Eng.	6301-3	3181	Recirc Spray Heat Exch.	1971	Repaired	Yes

7. Description of Work Mechanically plugged one (1) tube, pulled one (1) tube and seal welded a plug to tubesheet.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure 93.5 psi Test Temp. 70 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-1 form attached.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel M Hall SR. SNC Date Feb 15 19 96
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/4/95 to 2/15/96, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

W. R. Smith Commissions PA 2944 PA 2266
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/15 19 96

(12/82)

FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS
As required by the Provisions of the ASME Code Rules, Section VIII, Division I

1. Manufactured by INDUSTRIAL PROCESS ENGINEERS, NEWARK, NEW JERSEY (Name and address of manufacturer)

2. Manufactured for Stone & Webster Eng. Co. for Duquesne Light Co., Shippingport, Pa. (Name and address of purchaser)

3. Type Vert (Horiz. or Vert.) Kind Heat Exch. (Tank, Jacketed, Heat Exch.) Vessel No. 6301-3 (Mfrs. Serial) ( ) (State & State No.) Nat. Bd. No. 3181 Yr. Built 1971

Items 4-9 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. SHELL: Material SA240-304L (Kind and Spec. No.) T.S. 70,000 Nominal Thickness 1/4 in. Corrosion Allowance 0 in. Diam. 2 ft. 7 in. Length [illegible]

5. SEAMS: Long D.B.W. (Welded, Dbl., Single, Lap, Butt) H.T. No (Yes or No) R.T. complete (Spot or Complete) Sectioned No (Yes or No) Efficiency 100 %

Girth S.B. & D.B.W. H.T. No R.T. complete Sectioned No No. of Courses 4

6. HEADS (a) Material See Line 10 T.S. (b) Material T.S.

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)								
(b)								

If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)

7. STAYBOLTS: (Material) If hollow (Size of Hole) Attachment (Threaded, Welded) Pitch (Horiz.) x (Vert.) Diam.

8. JACKET CLOSURE: (Describe as ogee & weld, bar, etc. If bar, give dimensions. If bolted, describe or sketch)

9. Constructed for max. allowable working press. 150 psi at max. temp. 280 °F. Min. temp. (when less than -20°) °F. Hydrostatic Test Press. 250 psi.

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material SA240-304L (Kind & Spec. No.) Diam. 31 in. (Subject to Pressure) Thickness [illegible] in. Attachment Welded

Floating. Material (Kind & Spec. No.) Diam. in. Thickness in. Attachment

11. TUBES: Material SA213 sml's TP304-L (Kind & Spec. No.) O.D. 5/8" in. Thickness 20 Gage Number 880 Type Straight (Straight or U)

Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

12. SHELL Material SA515-70 (Kind and Spec. No.) T.S. 70,000 Nominal Thickness 7/16 in. Corrosion Allowance 0 in. Diam. 2 Ft. 7 in. Length 4 3/4

13. SEAMS: Long D.B.W. (Welded, Dbl., Single, Lap, Butt) H.T. Yes (Yes or No) R.T. complete (Spot or Complete) Sectioned No (Yes or No) Efficiency 100 %

If stressed relieved see Fig. ... form.

Girth See Fig. NB-3352-B(C) H.T. Yes R.T. complete Sectioned No No. of courses 1

14. HEADS (a) Material T.S. (b) Material SA515-70 T.S. 70,000 (c) Material T.S.

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top, bottom, ends								
(b) Channel	1-13/16"						37"	
(c) Floating								

If removable, bolts used (a) (Material, Spec. No., T.S., Size, Number) (b) 24 bolts-3/4" dia.-SA193-B7

(c) Other fastening (Describe or Attach Sketch)

ASME INSPECTED

15. Constructed for max. allowable working press. 150 psi-int. 48 psi-ext. psi at max. temp. 280 °F. Min. temp. (when less than -20°) °F. Hydrostatic Test Press. 225 psi.

Items below to be completed for all vessels where applicable.

16. SAFETY VALVE OUTLETS: Number Size Location By Others

17. NOZZLES

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Shell	1	14 x 10	B.W.Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	14 x 12	B.W.Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	1"	Weld End	SA 312	.109	----------	Welded
Shell	1	1/8"	Coup. Thr'd	SA182F304L	6000#	----------	Welded
Channel	2	14"	Weld End	SA53-B	.438	SA515-70	Welded
Channel	2	1/2, 1"	Weld End	SA53-B	Sch. 80	--------	Welded

* If postweld heat treated, list the minimum temperature when applicable.

RS [illegible] P 2 4 [illegible] 25

P

FORM U-1 (back)

18. INSPECTION OPENINGS Manholes, No. ______ Size ______ Location ______
Handholes, No. ______ Size ______ Location ______
Threaded, No. ______ Size ______ Location ______

19. SUPPORTS Skirt No (Yes or No) Lugs Four (Number) Legs ______ (Number) Other ______ (Describe) Attached Shell We... (Where and How)

20. REMARKS: Recirculation Spray Cooler. TEMA Type -- CEN
Mark No. RS-E-1C -- I.O. No. 11700--P.V.-75
Contents: Shell Side -- Spray Water, Tube Side -- River Water.
Vessel certified as ASME Code Sec. III, Class "C" Unit by John H. Noble,
Registered P.E. 11501-E Commonwealth of Pennsylvania and is constructed in
accordance with the Winter 1968 Addenda of ASME Sect. III, Article 21.

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.)

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date December 14 19 71 Signed Industrial Process Engineers (Manufacturer) By [signature]

Certificate of Authorization Expires December 31, 1973

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Industrial Process Engineers at Newark, New Jersey

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N.J. and employed by The State of ______ have inspected the pressure vessel described in this manufacturer's data report on December 10 19 71, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date December 14 19 71

[signature] Inspectors Signature Commissions NB 6575 Penna. WC-1879 Nat'l Board, State, or Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province ______ and employed by ______ of ______ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items ______ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure vessel Code. The described vessel was inspected and subjected to a hydrostatic test of ______ psi.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date ______ 19 ______

______ Inspector's Signature Commissions ______ Nat'l Board, State or Province and No.

Printed in U.S.A. (9-68)

RS-E-1C P 24 11 75

0170

SYS. CODE
RS
EQ. ID NO.
RS-E-1C
MAJOR
P
MINOR
24
DA
75

U
N
DIVISION 1
W
PHT
RT

INDUSTRIAL PROCESS ENGINEERS
NEWARK, N.J.

SERIAL NUMBER 6301-3 NATIONAL BOARD NO. [illegible]

	SHELL	TUBE
MAX. WORK PRESS.	150 PSI	[illegible]
MAX. WORK TEMP.	2[illegible]0° F	2[illegible]0° F
[illegible]	1/4 5/16 7/16	[illegible]
HYDRO TEST PRESS.	250 PSI	225 P[illegible]

STATE NUMBER

YEAR BUILT 197[illegible]

[illegible] T. ITEM NO. — RS-E-1C

11700 BV-75

S W E C
PQC
INSPECTED

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Form No. 157

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/12/90
Sheet 1 of 2

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #394349 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Recirculation Spray

5. (a) Applicable Construction Code Sect. III.C 19 68 Edition W'71 Addenda ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RS-E-1D	Industrial Process Eng.	6301-4	3182	Recirc Spray Heat Exch.	1971	Repaired	Yes
Tubes	Greenville Tube Co.	———	N/A	———	1989	Replaced	No
Studs	Cardinal	———	N/A	———	1989	Replaced	No
Nuts	Cardinal	———	N/A	———	1989	Replaced	No

7. Description of Work Replaced one hundred thirty-four (134) tubes and end cover studs and nuts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure 93.5 psi Test Temp. 70 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-1 form attached.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel M Huff (Owner or Owner's Designee, Title) Date Feb 15, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period [illegible] to 2/15/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions NB 8441 PA [illegible] (National Board, State, Province, and Endorsements)

Date 2/15 19 90

(12/82)

Manufactured by INDUSTRIAL PROCESS ENGINEERS, NEWARK, NEW JERSEY

Manufactured for Stone & Webster Eng. Co. for Duquesne Light Co., Shippingport, Pa.

Type Vert. Heat Exch. Vessel No. 6301-4 Nat'l. Bd. No. 3188

SHELL: Material SA240-304L T.S. 70,000

SEAMS: Long D.B.W. H.T. No R.T. complete Sectioned No Efficiency 100

Girth S.R. & D.B.W./H.T. no R.T. complete Sectioned No

6. HEADS (a) Material See Line 10

7. STAYBOLTS:

8. JACKET CLOSURE:

9. Constructed for max. allowable working press. 150 psi at max. temp. 280 °F. Min. temp. (when less than -20°) ___ °F. Hydrostatic Test Press. 250 psi.

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material SA240-304L Diam. 31 In. Thickness 1-3/4 In. Attachment Welded

Floating. Material ___ Diam. ___ In. Thickness ___ In. Attachment ___

11. TUBES: Material SA213 sml's TP304L O.D. 5/8" In. Thickness 20 Inches or Gage Number 850 Type Straight

Items 12-15 incl. to be completed for channels of heat exchangers.

12. SHELL Material SA515-70 T.S. 70,000 Nominal Thickness 7/16 In. Corrosion Allowance 0 In. Diam. 2 Ft. 7 In. Length 2 Ft. 4-3/4 In.

13. SEAMS: Long D.B.W. H.T. Yes R.T. complete Sectioned No Efficiency 100 %

Girth See Fig. NB-3352-1 (C) H.T. Yes R.T. complete Sectioned No No. of courses 1

14. HEADS (a) Material ___ T.S. ___ (b) Material SA515-70 T.S. 70,000 (c) Material ___ T.S. ___

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top, bottom, ends								
(b) Channel	1-13/16"						37"	
(c) Floating								

If removable, bolts used (a) ___ (b) 24 bolts-3/4" dia. SA193-B7

(c) ___ Other fastening ___

15. Constructed for max. allowable working press. 150 PSI - Int. 48 PSI - Ext. psi at max. temp. 280 °F. Min. temp. (when less than -20°) ___ °F. Hydrostatic Test Press. 225

Items below to be completed for all vessels where applicable.

16. SAFETY VALVE OUTLETS: Number ___ Size ___ Location BY OTHERS

17. NOZZLES

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Shell	1	14 x 10	B.W. Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	14 x 12	B.W. Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	1"	Weld End	SA312	109	---------	Welded
Shell	1	1/8"	Coup. Thr'd.	SA182F304L	6000#	---------	Welded
Channel	2	1/4"	Weld End	SA53-B	438	SA515-70	Welded
Channel	2	1/2, 1"	Weld End	SA53-B	Sch. 80	---------	Welded

NOTED JAN 11 1972

FORM U-1 (back)

18. INSPECTION OPENINGS: Manholes, No. ______ Size ______ Location ______
Handholes, No. ______ Size ______ Location ______
Threaded, No. ______ Size ______ Location ______

19. SUPPORTS: Skirt No (Yes or No) Legs Four (Number) Lugs ______ (Number) Other ______ (Describe) Attached Shell Welded (Where and How)

20. REMARKS: Recirculation Spray Cooler--TEMA Type CEN

Item No. RS-E-1D -- I.O. No. 11700 -- BV-75

Contents: Shell Side -- Spray Water -- Tube Side -- River Water

Vessel Certified as ASME Code Sect. III Class "C" Unit by John M. Noble

Registered P.E. #11501-E Commonwealth of Pennsylvania and is

constructed in accordance with the Winter 1968 Addenda of ASME Sect. III, Article 21

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.)

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date December 17, 19 71 Signed Industrial Process Engineers (Manufacturer) By B B Haller

Certificate of Authorization Expires December 31, 1973

01693

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Industrial Process Engineers at Newark, New Jersey

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N.J. and employed by The State of ______ have inspected the pressure vessel described in this manufacturer's data report on December 17, 1971 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date December 17, 1971

[signature] Commissions N.B. 6575 Penna. WC 1879 (Nat'l Board, State, or Province and No.)

[illegible]	[illegible]	MAJOR	MINOR	UNIT	V.O.
M RS	RS-E-1D	P	2-4	1	75

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province ______ and employed by ______ of ______ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items ______ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure vessel Code. The described vessel was inspected and subjected to a hydrostatic test of ______ psi.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

P

Date ______ 19 ______

______ Commissions ______
Inspector's Signature Nat'l Board, State, or Province and No.

Printed in U.S.A. (9-68)

U

N

DIVISION 1

W

PH T

RT

INDUSTRIAL PROCESS ENGINFERS

NEWARK, N.J.

SERIAL NUMBER 6301-4

NATIONAL BOARD NO. 3182

	SHELL	TUBE
MAX. WORK PRESS.	150 PSI	150 PSI INT. 40 PSI EXT.
MAX. WORK TEMP.	280° F.	280° F.
THICKNESS	1/4 5/16 1/16	HDCVR. 1 13/16
HYDRO TEST PRESS.	250 PSI	225 PSI

STATE NUMBER

YEAR BUILT 1971

M

SYS CODE RS

EQ. ID. NO. RS-E-1D

MAJOR P

MINOR 24

P.O. 25

CUST. ITEM NO. — RS-E-1D

11700 BV-75

S.W.E.C. PQC INSPECTED

P

Form No. 158

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/26/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #883188 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code Section III 19 68 Edition, S'68 Addenda, ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RV-RC-551B	Target Rock	2	———	6" x 6" Relief Valve	1973	Replaced	YES
RV-RC-551B	Target Rock	1	———	6" x 6" Relief Valve	1973	Replacement	YES

7. Description of Work Replaced existing valve with a spare

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ (Owner or Owner's Designee, Title) ENG I Date March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 2/28 to 3/9/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

_____ Commissions NB 8441 PP 3466

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

Date 3/9 19 90

(12/82)

Form No. 159

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/26/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR #893726, 891744 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maintenance Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Main Steam

5. (a) Applicable Construction Code B16.34 19 73 Edition — Addenda — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No. (Model)	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-20	Crane Valve	175-½xR	N/A	3" check valve	1973	Repaired	NO
—	Crane Valve	D847	N/A	Disc.	1989	Replaced	NO

7. Description of Work Overhauled valve, replaced valve internals, seal welded hinge pin plu

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks No NPV-1 form

Applicable Manufacturer's Data Reports to be attached

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 Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG I Date March 9 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/5/89 to 3/9/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions [illegible]

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

Date 3/5 19 90

(12/82)

Form No. 160

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name) — Date 3/8/90

One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name) — Unit No. 1

Shippingport, PA 15077 (Address) — MWR 893383, 894331, 894305; DCP 1452; DCP 682/MWR 882346 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - NCD (Name) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (Address) — Authorization No. "

Expiration Date "

4. Identification of System Feedwater System (024)/RCS

5. (a) Applicable Construction Code ASME III 19 65 Edition W66 Addenda 1429 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Unit 1 "B" Steam Gen.	Westinghouse	1302	68-46	RC-E-1B	1971	Repair	YES

7. Description of Work Machining of 2" Inspection Openings in Lower Shell, machining of 6" handhole & cover/machining of #2 secondary manway cover; pluggin stuking & plug removal/DCP 682-change out of bolts to studs.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks: These 2" dia. inspection openings did not require reinforcement with weld-build-up material because the shell wall thickness at this location is considerably over the minimum wall requirements.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] ENG. 1 (Owner or Owner's Designee, Title) Date March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/4/88 to 3/9/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[illegible] (Inspector's Signature) Commissions NB 8441 PA 2125 (National Board, State, Province, and Endorsements)

Date 3/9 19 90

(12/82)

Form No. 161

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 3/8/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No.
TER 2800; DCP 6[illegible] MWR 882339;
DLC P.O. D08069 WR 893963; MWR 8942[illegible]
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Const. Dept. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Reactor Coolant System (06)

5. (a) Applicable Construction Code ASME III 19 65 Edition, W 66 Addenda, 1429 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RC-E-1A Steam Gen.	Westinghouse	1301	68-45	Pa. Serial 434597	1971	Repair	YES

7. Description of Work Thermal Stress Relief of Row 1 and 2 Tube U-bends; plugging, staking, plug removal, DCP 682/change out of bolts to studs.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☒ Pressure _____ psi Test Temp. _____ °F

Eddy Current Test per Technical Specifications

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] EVS 1 Date March 9, 19 92
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/24/89 to 3/9/92, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions 28444 P1466
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/9 19 92

(12/82)

Form No. 162

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 3/5/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR # 894452 and 894035 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Feedwater

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
16"-WFPD-22	Stone and Webster	———	———	Piping	———	Repaired	No

7. Description of Work Feedwater elbow to steam generator was cut out and replaced. Piping upstream was cut, repositioned and rewelded.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 902 psi Test Temp. 440 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair conforms to the rules of the repair or replacement ASME Code, Section XI.

Type code symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ Owner or Owner's Designee, Title ENG I Date March 9 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/89 to 3/9/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

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

Date 3/9 19 90

(12/82)

Form No. 163

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 3/2/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR # 894608 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Feedwater

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, ——— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
16"-WFPD-24	Stone and Webster	———	———	Piping	———	Repaired	No

7. Description of Work Piping was cut, repositioned, and rewelded.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 902 psi Test Temp. 440 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] EXG I (Owner or Owner's Designee, Title) Date March 9 19 96

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/89 to 3/9/96, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions [illegible] (Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 3/9 19 96

(12/82)

Form No. 165

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 3/8/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No.
DCP 1452; MWR 890831, 894486; DCP 682/MWR 882346
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - NCD (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Feedwater/RCS

5. (a) Applicable Construction Code ASME III 19 65 Edition, W66 Addenda, 1429 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Unit 1 'C' Steam Gen.	Westinghouse	1303	68-47	RC-E-1C	1971	Repair	Yes

7. Description of Work Machining of 2" inspection opening in lower shell, machining of secondary manway cover, plug removal, stabilization & description of work plugging; DCP 682 - change out of bolts to studs.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ Owner or Owner's Designee, Title _____ Date March 9 19 88

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period _____ to _____, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

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

Date 3/9 19 88

(12/82)

Form No. 144

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/28/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 894818 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Construction (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Feedwater

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
WFPD-24-5-A-3	Stone & Webster	-	-	-	-	Repaired	No

7. Description of Work Arc strike near weld removed. Min wall was not violated.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
VT, MT, UT

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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 repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG I Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/10/89 to 2/22/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions NB 8741 PA 2446
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/5 19 92

(12/82)

Form No. 147

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 892214
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Construction (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Safety Injection

5. (a) Applicable Construction Code B31.1 19 67 Edition S'71 Addenda - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Weld SI-18-1-S-05	Stone and Webster	-	-	-	-	repaired	No

7. Description of Work Removed Arc Strike at weld. Minimum wall was not violated

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
PT-89-274

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair conforms to the rules of the repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENGR Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/17/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions NB 944 PA 6266
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/5 1991

(12/82)

Form No. 68

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/28/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 893783 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Main Steam

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-81	Crane	-	-	Model 1754X	-	repaired	No
Disc	Crane	-	-	Part #D847	-	replaced	No

7. Description of Work Replaced internals

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks No NPV-1 form

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG 2 (Owner or Owner's Designee, Title) Date March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/5/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions NB 8441 PA 2166 (National Board, State, Province, and Endorsements)

Date 3/9 19 90

(12/82)

Form No. 149

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 894034
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No.
Expiration Date

4. Identification of System Main Steam

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PCV-MS-101C	Copes Vulcan	-	-	-	-	repaired	no
Bal. Cylinder	Copes Vulcan	-	-	-	-	replaced	no
Trim Set	Copes Vulcan	-	-	-	-	replaced	no

7. Description of Work Overhauled valve internals.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

8. Remarks No NPV-1

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

(repair or replacement)

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG I Date March 9 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/21/89 to 2/22/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions [illegible]

Inspector's Signature

National Board, State, Province, and Endorsements

Date 3/9 19 90

(12/82)

Form No. 70

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/28/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 894819 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Feedwater

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Weld # WFPD-24-5-A-5	-	-	-	-	-	repaired	NO

7. Description of Work Removed arc strike near weld. Min wall not violated

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
MT-89-149

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ (Owner or Owner's Designee, Title) EWS I Date March 9 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/10/89 to 2/22/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

_____ Commissions _____
Inspector's Signature — National Board, State, Province, and Endorsements

Date 3/9 19 90

(12/82)

Form No. 7

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 894823
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Const (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Feedwater

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Snubber WFPD-HSS-209	Grinnell	8835	-	-		replaced	no
Snubber WFPD-HSS-209	Grinnell	25474	-	-		replace-ment	no

7. Description of Work One for one replacement due to bad seal.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
Visual Exam.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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 repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ Owner or Owner's Designee, Title _____ Date March 9 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/14/89 to 2/22/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

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

Date 3/9 19 90

(12/82)

Form No. 172

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/28/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 894178 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Snubber RC-HSS-8	Grinnell	illegable	-	-		replaced	no
Snubber RC-HSS-8	Grinnell	25924	-	-		replace-ment	no

7. Description of Work Replaced snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
Visual Exam.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: [signature] Engr (Owner or Owner's Designee, Title) Date: March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/7/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions [illegible] PA 1166
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 3/9, 19 90

(12/82)

Form No. 173

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 894822
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Feedwater

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Snubber WFPD-HSS-212	Grinnell	8171	-	Snubber	-	replaced	no
Snubber WFPD-HSS-212	Grinnell	25476	-	Snubber	-	replace-ment	no

7. Description of Work One for one replacement of snubber due to leaking seal.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
Visual Inspection.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] EVP Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/14/89 to 2/22/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions 2 2771 PA 6466
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/7 19 90

(12/82)

Form No. 174

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 871581
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Safety Injection

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MOV-S1-865C	Velan	-	-	DRWG. 88907/3	-	repaired	no
Bonnet studs	Cardinal	-	-	-	-	replaced	no
Bonnet nuts	Cardinal	-	-	-	-	replaced	no

7. Description of Work Replaced 19 out of 20 Bonnet Stud/Nut assemblies

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks No NPV-1 form

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Engr Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/12/89 to 2/22/89, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions [illegible]
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/5 19 90

(12/82)

Form No. 175

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/28/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 892209 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Safety injection

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Weld# SI-16-8-F-09	Stone & Webster	-	-	-	-	repaired	no

7. Description of Work Removed vibroetch markings at weld. Min wall was not violated.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
PT-89-273

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Data Reports to be attached

_____

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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 Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Date March 9 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/21/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions [illegible]
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/2 19 90

(12/82)

Form No. 174

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 893434
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Construction (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Safety Injection

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda ____ Code Case ____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Weld SI-133-6A-S-0	Stone & Webster	-	-	-	-	Repaired	No

7. Description of Work Removed linear indication in weld. Min. wall was not violated.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure ____ psi Test Temp. ____ °F
PT-89-272

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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 repair conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ Engr Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9/17/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

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

Date 3/7 19 90

(12/82)

Form No. 177

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 894817 and 894829
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No.
Expiration Date

4. Identification of System Feedwater

5. (a) Applicable Construction Code B31.1 19 67 Edition S'71 Addenda - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
WFPD-24-5-A-6	Stone and Webster	-	-	-	-	repaired	no

7. Description of Work Removed arc strike and linear indication near weld

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F

MT-89-149 & 161

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00013O1) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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 repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ EVS Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 1/10/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

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

Date 3/9/90

(12/82)

Form No. 7A

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/28/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 871522 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Main Steam

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PCV-MS-101A	Copes Vulcan	-	-	-	-	Repaired	No
Balance Cylinder	Copes Vulcan	-	-	-	-	Replaced	No
Trim Set	Copes Vulcan	-	-	-	-	Replaced	No

7. Description of Work Replaced trim assembly and balance cylinder

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG I (Owner or Owner's Designee, Title) Date March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/19/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions NB 8441 PA 2466 (National Board, State, Province, and Endorsements)

Date 3/9 1990

(12/82)

Form No. 79

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 894454
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maint. Dept. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No.
Expiration Date

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RH-1	Anchor Darling	-	N/A	-	-	repaired	no
Flange studs	Cardinal	N/A	N/A	1 3/8" - 8	-	replaced	no
Flange nuts	Cardinal	N/A	N/A	1 3/8" - 8	-	replaced	no
Bonnet studs	Cardinal	N/A	N/A		-	replaced	no
Bonnet nuts	Cardinal	N/A	N/A		-	replaced	no

7. Description of Work Replaced degraded fasteners

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks No NPV-1

Applicable Manufacturer's Data Reports to be attached

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 Per SAP 32 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG I Date March 9 19 90

(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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/22/89 to 9/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions NB 8741 PA 2666

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

Date 3/9 19 90

(12/82)

Form No. 180

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 3/2/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 893847 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Charging

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CH-23-3-S-03	Stone & Webster	-	-	Weld	-	Repaired	No

7. Description of Work Removed arc strike. Min. wall not violated

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
VT-89-1039

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG 2 (Owner or Owner's Designee, Title) Date March 9 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/21/89 to 3/2/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions NB 8441 PA2166
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 3/6 19 90

(12/82)

Form No. 181

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 3/2/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 893845
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'7 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2"-RC-244A	Stone & Webster	-	-	Elbow	-	Repaired	No

7. Description of Work Fitting indications removed

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
PT-89-294

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] EXC I (Owner or Owner's Designee, Title) Date March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/19/89 to 3/2/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions [illegible] (National Board, State, Province, and Endorsements)

Date 3/9 19 90

(12/82)

Form No. 182

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 3/2/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 894178
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Conts. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Snubber RC-HSS-2	Grinnell	537	-	-	-	Replaced	No
Snubber RC-HSS-2	Grinnell	11287	-	-	-	Replace-ment	No

7. Description of Work Replaced snubber due to broken fitting

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
Visual Exam by ISI

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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 repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG I Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/6/89 to 3/2/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions NB 8741 PA 2266
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/9 19 90

(12/82)

Form No. 183

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 3/2/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 893848 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Charging

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'7 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CH-23-4-F-06	Stone & Webster	-	-	Pipe Weld	-	Repaired	No

7. Description of Work Removed Arc Strike near weld. Min. wall not violated

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
PT-89-297

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Exec I Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/24/89 to 3/2/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions 08477 MA 2866
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/9 19 90

(12/82)

Form No. 184

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 3/2/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 893844 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Charging

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CH-141-2-F-3	Stone & Webster	-	-	Pipe Weld	-	Repaired	No

7. Description of Work Removed linear indication near weld

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
PT-89-295

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG I Date March 9, 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/19/89 to 3/2/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described on 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] Commissions [illegible]
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/9, 19 90

(12/82)

Form No. 185

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 3/2/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MSR 893835 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. -
Expiration Date -

4. Identification of System Feedwater

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'7 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
WFPD-22-8F-F-02	Stone and Webster	-	-	Weld	-	Repaired	No

7. Description of Work Removed linear indication. Min wall not violated.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
MT-89-81

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repaired conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ ENGR Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/5/89 to 3/2/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

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

Date 3/4 19 90

(12/82)

Form No. 186

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 3/2/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 893839
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. -
Expiration Date -

4. Identification of System Primary drains

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'7 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
DG-56-3-S-01	Stone and Webster	-	-	Weld	-	Repaired	No

7. Description of Work Removed indications on weld. Min. wall not violated

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
PT-89-286

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ (Owner or Owner's Designee, Title) ENG I Date March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/10/89 to 3/2/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

_____ Commissions _____
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 3/2 19 90

(12/82)

Form No. 187

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 3/2/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1
MWR 892373 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Mech. Maint. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Safety Injection

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
S1-51	Anchor Darling	-	-	Check Valve	-	Repaired	no
Bonnet stud	Cardinal	-	-	-	-	Replaced	no
Bonnet nut	Cardinal	-	-	-	-	Replaced	no

7. Description of Work Replaced galled stud/nut assembly

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ ENG I Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/12/89 to 3/2/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

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

Date 3/5 19 90

(12/82)

Form No. 188

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 3/2/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 894483
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Safety Injection

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'7 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SI-HSS-520	Grinnell	10894	-	Snubber	-	Repaired	No
Clamp	Grinnell	-	-	-	-	Replaced	No

7. Description of Work Replaced snubber clamp

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F
Visual Exam.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ (Owner or Owner's Designee, Title) ENG I Date March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/11/89 to 3/2/90 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

_____ (Inspector's Signature) Commissions _____ (National Board, State, Province, and Endorsements)

Date 3/7 19 90

(12/82)

Form No. 189

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 2/28/90
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 1
MWR 894644 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System River Water

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
18" WR-14-151-Q3	Stone and Webster	-	-	-	-	repaired	no

7. Description of Work Welded patch over thin wall area

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] TOP-1-89-24
Other [ ] Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

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 repaired (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ ENG I Date March 9, 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 12/7/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

_____ Commissions NB 8244 PA 4466
Inspector's Signature National Board, State, Province, and Endorsements

Date _____ 19 _____

(12/82)

Form No. 190

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 3/2/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 893840
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Const. (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. -
Expiration Date -

4. Identification of System Primary Drains

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
DG-56-3-F-04	Stone & Webster	-	-	Weld	-	Repaired	No

7. Description of Work Removed indications on socket weld fitting

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure _____ psi Test Temp. _____ °F

PT-89-286

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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 repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed _____ ENG I Date March 9 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 10/10/89 to 3/2/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

_____ Commissions 20944 PA 2006
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/5 19 90

(12/82)

Form No. 191

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 2/28/90

Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1

MWR 891620
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Construction (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. -
Expiration Date -

4. Identification of System River Water

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, - Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
18"-WR-15-151-Q3	Stone & Webster	-	-	-	-	Repaired	No

7. Description of Work Welded ~~plate~~ Patch over pipe with pinhole leak.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

TOP 1-89-24

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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 repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] ENG. I (Owner or Owner's Designee, Title) Date March 9, 19 90

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 12/7/89 to 2/28/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions NB 844 PA 1286 (National Board, State, Province, and Endorsements)

Date 3/9 19 90

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company * (Name) — Date 11/22/89
   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet _____ of _____
2. Plant Beaver Valley Power Station (Name) — Unit _____
   Shippingport, PA 15077 (Address) — DCP 1452; NCD (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by DLCo - NCD (Name) — Type Code Symbol Stamp Not Applicable
   Shippingport, PA - NCD (Address) — Authorization No. _____ Expiration Date _____
4. Identification of System Feedwater System (#24)
5. (a) Applicable Construction Code ASME III 19 65 Edition, W66 Addenda, 1429 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Unit 1 "B" Steam Gen.	Westinghouse	1302	68-46	RC-E-1B	1971	Repair	YES
Unit 1 "C" Steam Gen.	Westinghouse	1303	68-47	RC-E-1C	1971	Repair	YES

7. Description of Work Machining of 2" Inspection Openings in Lower Shell
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks These 2" dia. inspection openings did not require reinforcement with
Applicable Manufacturer's Data Reports to be attached
weld-build-up material because the shell wall thickness at this location
is considerably over the minimum wall requirements.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed Richard D Bologna / ENGINEER Date 2-22, 19 90
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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/22/89 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

M.R. Smith Commissions NB 8941 PA 2266
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/22 19 89

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name)
One Oxford Centre - Pittsburgh, PA 15279 (Address)

Date 12/20/89
Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)

Unit No. 1
TER 2600
DLC P.O. D080692/MWR 893963
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - NED/Babcock & Wilcox (Name)
Shippingport, PA 15077 (Address)

Type Code Symbol Stamp Not Applicable
Authorization No. *
Expiration Date *

4. Identification of System Reactor Coolant System (06)

5. (a) Applicable Construction Code ASME III 19 65 Edition W 66 Addenda 1429 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S '83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RC-E-1A Steam Gen.	Westinghouse	1301	68-45	Pa. Serial 434597	1971	Repair	YES

7. Description of Work Thermal Stress Relief of Row 1 and 2 Tube U-bends

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☒ Pressure _____ psi Test Temp. _____ °F
Eddy Current Test per Technical Specifications

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks: N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp: Per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed William J. Nealon / Engineer (Owner or Owner's Designee, Title) Date February 22, 1990

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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 12/16/88 to 2/22/90, 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 a loss of any kind arising from or connected with this inspection.

*Factory Mutual Systems

[signature] (Inspector's Signature) Commissions NB 8881 PA 2264 (National Board, State, Province, and Endorsements)

Date 2/22 1990

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name) Date 12-19-89
One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2
2. Plant Beaver Valley Power Station (Name) Unit BVPS-1
Shippingport, PA 15077 (Address) DCP 698 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Duquesne Light Company (Name) Type Code Symbol Stamp Not Applicable
Shippingport, PA 15077 (Address) Authorization No. Not Applicable
Expiration Date Not Applicable
4. Identification of System Reactor Coolant System - System Number 6
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition Summer 1971 Addenda N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RC - Loop A	Southwest Fabrication	29" RC-1-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO
RC - Loop A	Southwest Fabrication	31" RC-2-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO
RC - Loop A	Southwest Fabrication	27 1/2"RC 3-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO
RC - Loop B	Southwest Fabrication	29" RC-4-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO
RC - Loop B	Southwest Fabrication	32" RC-5-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO

7. Description of Work Removed RTD Bypass System. Modified RCS Loop RTD Bypass Connections.
8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 2280 psi Test Temp. 500 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N/A

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 per SAP 30 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. A. Hawks Jr. Lead Engineer Date December 19, 1989
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 _____ and employed by Arkwright Mutual Ins. Co. of _____ have inspected the components described in this Owner's Report during the period 9/17/88 to 3/14/96, 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 a loss of any kind arising from or connected with this inspection.

* Factory Mutual System

M. R. Hum
Inspector's Signature

Commissions NB 9741 PA 6116
National Board, State, Province, and Endorsements

Date 4/12/1996

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company (Name) — Date 12-19-89
One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 2 of 2

2. Plant Beaver Valley Power Station (Name) — Unit BVPS-1
Shippingport, PA 15077 (Address) — DCP 698 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Duquesne Light Company (Name) — Type Code Symbol Stamp Not Applicable
Shippingport, PA 15077 (Address) — Authorization No. Not Applicable
Expiration Date Not Applicable

4. Identification of System Reactor Coolant System - System Number 6

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, Summer 1971 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RC - Loop B	Southwest Fabrication	27 1/2"RC 6-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO
RC - Loop C	Southwest Fabrication	29" RC-7-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO
RC - Loop C	Southwest Fabrication	31" RC-8-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO
RC - Loop C	Southwest Fabrication	27 1/2 RC 9-2501R	N/A	Penn. Spec. 5390	1968	Replace-ment	NO

7. Description of Work Removed RTD Bypass System. Modified RCS Loop RTD Bypass Connections.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 2280 psi Test Temp. 500 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

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 repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp per SAP 39 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. A. Hauke, Jr. Lead Engineer Date December 19, 19 89
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 _____ and employed by [illegible] of _____ have inspected the components described in this Owner's Report during the period 2/14/89 to 2/21/90, 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 a loss of any kind arising from or connected with this inspection.

[illegible] Commissions [illegible]
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/22 19 90

(12/82)

APPENDIX VI

NRC Special Report

Title: Beaver Valley Unit No. 1
1989 Seventh Refueling Outage
Steam Generator Tube Inservice
Inservice Results
Twelve Month Special Report

STEAM GENERATORS (ET)

One hundred percent of the in-service tubes were examined in the three steam generators; RC-E-1A (S/G A), RC-E-1B (S/G B), and RC-E-1C (S/G C), following the first sample examination of 3352 tubes in S/G B resulting into a C-3 Category examination.

The tubes were examined by Babcock and Wilcox, (B&W) with the primary analysis performed using the B&W Automated Data Screening, Rev. 5.0. An independent second party analysis review for all bobbin coil examinations was performed manually by ECHORAM Technology, Inc.

The examinations and evaluations were performed in compliance with the Duquesne Light Company Beaver Valley No. 1 Technical Specification, NRC Regulatory Guide 1.83 and the EPRI Steam Generator Examination Guidelines: Revision 2.

BOBBIN COIL EXAMINATION

The bobbin coil examination was the primary eddy current examination with the exception of the Row 1 and 2 u-bend regions in which a rotating pancake coil probe was used for detection and sizing defects in this area.

Prior to the bobbin coil examinations a probe speed comparison study was performed at 18, 20, and 24 inches per second on ten tubes in S/G B. It was concluded the 20 inch per second probe speed would be acceptable for the data acquisition. This included an ANII reviewing, witnessing and accepting the faster probe speed.

Tube location and percent through wall depth for each bobbin coil indication are listed in Attachment I. The following table summarizes the results of the bobbin coil examinations:

	S/G A	S/G B	S/G C
No. of tubes examined	3310	3352	3360
≥40% TWD	56	39	15
20 - 39% TWD	96	115	43
<20% TWD	31	46	33
DSI	411	179	168

%TWD = % through wall depth
DSI = distorted support plate indication

ROTATING EDDY CURRENT

The B&W rotating pancake coil (RPC) system was used to acquire primary data from the Row 1 and 2 u-bend region. Note that only the S/G A tubes in the Row 1 and 2 u-bend region were stress relieved (UBSR) this outage and RPC was performed before and after the stress relief activity.

Tube location and percent through wall depth for the RPC indications at the Row 1 and 2 u-bend region are listed in Attachment II. The following table summarizes the RPC examination results in the u-bend region:

	S/G A	S/G B	S/G C
Row 1 & 2 U-bends examined	154	177	184
U-bends with ≥ TWD	8	1	0
Row 1 & 2 U-bends post UBSR	146	N/A	N/A
U-bends with ≥ TWD post UBSR	0	N/A	N/A

Supplemental data as a result of the bobbin coil examinations identifying tubes with DSI's was obtained with the RPC method to further characterize the defect.

The following table summarizes the RPC results. The tube location and % TWD are listed in Attachment III.

	S/G A	S/G B	S/G C
Tubes examined with DSI's	525	280	224
≥40% TWD	32	12	3
20 - 39% TWD	166	36	34
<20% TWD	78	159	44

Additional data was obtained on selected tubes with areas of concern by using the RPC method.

The following tables summarize the RPC results. Attachment IV identifies the tube locations and % TWD.

Tubes examined in the Wextex region	33	169	0
≥40% TWD	0	5	0
20 - 39% TWD	0	0	0
<20% TWD	0	0	0
Tubes with no roll expansion examined for Cold Leg Wastage	34	0	0
≥40% TWD	0	0	0
20 - 39% TWD	22	0	0
<20% TWD	24	0	0
Tubes with roll expansion at the 1 & 2 cold leg tube support plate examined for Cold Leg Wastage	37	0	0
≥40% TWD	1	0	0
20 - 39% TWD	21	0	0
<20% TWD	13	0	0

LOOSE PARTS EXAMINATION

A loose parts analysis for the three steam generators was performed to detect possible loose parts in the outer three rows of the steam generators. The results identified the presence of loose parts at two tubes in S/G A and C and three tubes in S/G B. The parts were retrieved with a post examination being performed.

ROTATING PROBE ULTRASONIC EXAMINATION

A total of six tube support plate (TSP) intersections were examined in two tubes with the B&W UT-360 system. Each intersection was examined with both an angle beam transducer looking for axial cracks and a zero degree beam transducer. The angle beam examinations provided no evidence of axial cracks of any substantial depth or axial extent. Zero degree examinations of TSP locations provided indications of reduced and disrupted backwall responses similar to those observed in laboratory samples containing inter-granular attack, (IGA).

TUBES PLUGGED AND STABILIZED

The following table summarizes the tubes plugged and tubesheet stabilizers installed as a result of the examinations performed this outage. Attachment V identifies the tubes plugged.

	S/G A	S/G B	S/G C
No. of tubes plugged (total)	86	45	19
No. of tubes preventively plugged	30	5	4
No. of tubes stabilized (hot leg only)	2	6	4

Preventatively plugged = 1. Any Row 1 or 2 tube with any % TWD loss in the u-bend region was removed from service.
2. Tubes removed from service as a result of RPC examinations exhibiting wall degradation of ≥40% TWD.

Tubesheet stabilizer locations are:

S/G B		S/G B		S/G C	
Tube	Column	Tube	Column	Tube	Column
11	34	1	87	30	16
14	35	2	87	31	16
		3	87	44	55
		4	87	44	56
		5	87		
		33	16		

ATTACHMENT I

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: BOBBIN INDICATIONS >= 40% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	2	32	DDI	50	4.00	M2	100	1H	+ 0.40	7H	33	S4373	
B&W BOB	2	34	DDI	42	2.50	M2	107	1H	+ 0.40	7H	33	S4373	
B&W BOB	2	46	DDI	40	2.40	M2	113	3H	+ 0.20	7H	30	L1107	
B&W BOB			DDI	53	2.40	M2	113	1H	+ 0.10	7H	30	S2680	
B&W BOB	2	63	DDI	49	1.20	M2	104	1H	+ 0.20	7H	30	L1107	
B&W BOB			DDI	46	1.00	M2	104	1H	+ 0.40	7H	33	S4373	
B&W BOB	3	1	DDI	68	1.50	M2	88	1H	+ 0.10	7H	30	S2680	
B&W BOB	3	2	DDI	52	1.40	M2	104	1H	+ 0.10	7H	30	S2680	
B&W BOB	3	39	DDI	41	1.90	M2	115	1H	+ 0.10	7H	65	L1107	
B&W BOB	3	75	DDI	48	3.40	M2	102	1H	+ 0.00	7H	33	K3921	
B&W BOB	4	13	DDI	45	1.40	M2	101	2H	- 0.10	FL	26	N0942	
B&W BOB	4	18	DDI	42	2.50	M2	103	1H	+ 0.10	FL	64	K3921	
B&W BOB	4	43	DDI	40	3.90	M2	108	1H	- 0.20	FL	7	H8259	
B&W BOB	4	64	DDI	53	3.00	M2	104	1H	+ 0.40	FL	53	S2680	
B&W BOB	5	6	DDI	57	1.30	M2	81	1H	+ 0.00	FL	56	N0942	
B&W BOB	5	37	DDI	45	1.20	M2	104	1H	- 0.20	FL	7	N0942	
B&W BOB	5	38	DDI	42	2.50	M2	106	1H	- 0.10	FL	7	H8259	
B&W BOB	5	45	DDI	45	1.40	M2	104	1H	- 0.10	FL	7	H8259	
B&W BOB	6	4	DDI	56	2.20	M2	95	1H	+ 0.00	FL	56	K3921	
B&W BOB	6	31	DDI	57	1.10	M2	99	1H	- 0.20	FL	25	H8259	
B&W BOB	6	34	DDI	49	1.30	M2	105	1H	- 0.10	FL	25	H8259	
B&W BOB	6	40	DDI	41	1.70	M2	107	1H	- 0.10	FL	7	H8259	
B&W BOB	6	77	DDI	40	1.70	M2	99	1H	+ 0.10	FL	52	H8259	
B&W BOB	7	34	DDI	41	2.80	M2	112	1H	- 0.10	FL	25	H8259	
B&W BOB	7	45	DDI	48	1.80	M2	106	1H	- 0.30	FL	6	S4373	
B&W BOB	7	60	DDI	46	2.30	M2	98	1H	+ 0.10	7H	27	L1107	
B&W BOB	8	2	DDI	63	1.30	M2	83	1H	+ 0.00	FL	64	K3921	
B&W BOB	8	33	DDI	48	2.50	M2	106	1H	- 0.10	FL	25	S2680	
B&W BOB	10	14	DDI	43	2.30	M2	108	1H	- 0.10	FL	24	H8259	
B&W BOB	10	27	DDI	46	1.20	M2	104	1H	- 0.10	FL	24	H8259	
B&W BOB	11	41	DDI	48	2.30	M2	102	1H	- 0.20	FL	5	H8259	
B&W BOB	11	45	DDI	48	1.10	M2	100	1H	- 0.20	FL	6	S2680	
B&W BOB	12	38	DDI	52	1.90	M2	99	1H	- 0.10	FL	5	H8259	
B&W BOB	12	45	DDI	41	1.80	M2	108	1H	- 0.10	FL	5	H8259	
B&W BOB	14	35	DDI	49	2.00	M2	91	1H	- 0.20	FL	5	S2680	
B&W BOB	15	31	DDI	41	3.90	M2	114	1H	- 0.10	FL	22	K3921	
B&W BOB	17	59	DDI	45	4.70	M2	104	1H	+ 0.00	FL	48	K3921	
B&W BOB	19	14	DDI	49	3.90	M2	108	1H	- 0.40	FL	20	S2680	
B&W BOB	20	25	DDI	49	1.90	M2	109	1H	- 0.40	FL	20	S2680	
B&W BOB	20	28	DDI	49	3.20	M2	109	1H	- 0.40	FL	20	S2680	
B&W BOB	22	74	DDI	66	1.70	M2	87	1H	+ 0.00	FL	44	L1107	
B&W BOB	24	85	DDI	46	1.00	M3	100	1C	- 0.10	FL	7	N0942	
B&W BOB	25	30	DDI	67	2.00	M2	80	2H	- 0.10	FL	17	H8259	
B&W BOB	26	62	DDI	42	1.50	M2	114	1H	- 0.10	FL	42	S2680	
B&W BOB	27	72	DDI	47	1.00	M2	106	1H	+ 0.00	FL	42	L1107	
B&W BOB	27	74	DDI	51	1.80	M2	101	1H	- 0.10	FL	42	L1107	
B&W BOB	29	20	DDI	41	1.20	M2	100	2H	- 0.40	FL	14	S4373	
B&W BOB	29	24	DDI	57	1.00	M2	89	1H	- 0.40	FL	14	S4373	
B&W BOB	31	18	DDI	82	1.20	M2	82	1H	+ 0.00	FL	13	S2680	
B&W BOB	31	73	DDI	55	1.90	M2	108	1H	- 0.20	FL	37	S2680	
B&W BOB	32	42	DDI	40	3.90	MA	0	AV4	+ 0.00	FL	12	S2680	
B&W BOB	33	32	DDI	72	1.20	M2	83	1H	- 0.40	FL	12	S4373	
B&W BOB	33	77	DDI	44	1.50	M3	106	3C	- 0.20	FL	58	S2680	
B&W BOB	35	30	DDI	64	1.20	M2	88	1H	- 0.10	FL	11	H8259	
B&W BOB	35	31	DDI	41	2.10	M2	100	1H	+ 0.00	FL	11	S2680	
B&W BOB	37	23	DDI	45	1.40	M3	109	1C	- 0.20	FL	4	S2680	
B&W BOB	37	25	DDI	48	1.80	M2	110	2H	- 0.40	FL	4	S2680	
B&W BOB	37	32	DDI	48	1.20	M2	103	2H	- 0.10	FL	4	S2680	

TOTAL TUBES FOUND = 56
TOTAL INDICATIONS FOUND = 58
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 RES

QUERY: BOBBIN INDICATIONS 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	1	4	001	35	3.10	1	136	TSH	+ 17.00	7H	30	L1107	
B&W BOB	2	34	001	26	1.10	M2	119	3H	+ 0.00	7H	33	S4373	
B&W BOB	2	46	001	30	1.10	M2	120	2H	+ 0.20	7H	30	L1107	
B&W BOB	2	93	001	27	2.70	M3	130	1C	+ 0.00	7C	10	S4373	
B&W BOB	3	6	001	36	1.90	M2	115	2H	+ 0.10	7H	30	L1107	
B&W BOB			001	30	1.00	M2	120	1H	+ 0.00	7H	30	L1107	
B&W BOB	3	31	001	34	2.60	M2	113	1H	+ 0.00	7H	33	S4373	
B&W BOB	3	37	001	32	2.00	M1	110	1H	+ 0.00	7H	65	S2680	
B&W BOB	3	38	001	39	2.70	M2	116	1H	+ 0.10	7H	65	L1107	
B&W BOB	3	72	001	24	1.20	M2	121	1H	+ 0.00	7H	33	S2680	
B&W BOB	4	8	001	37	1.30	M2	111	2H	- 0.10	FL	56	N3921	
B&W BOB	4	16	001	38	1.80	M2	115	1H	- 0.30	FL	28	N0942	
B&W BOB	4	25	001	36	4.40	M2	118	1H	- 0.30	FL	28	N0942	
B&W BOB	4	29	001	26	3.80	M2	122	1H	- 0.40	FL	28	S4373	
B&W BOB	4	34	001	34	1.40	M2	118	1H	- 0.40	FL	28	N0942	
B&W BOB	4	40	001	38	2.00	M2	109	1H	- 0.10	FL	7	N8259	
B&W BOB	4	43	001	31	1.50	M2	115	2H	- 0.10	FL	7	N8259	
B&W BOB	4	44	001	38	2.20	M2	106	1H	- 0.10	FL	7	N0942	
B&W BOB	4	69	001	25	1.60	M2	125	2H	+ 0.20	FL	53	S4373	
B&W BOB	5	2	001	21	0.70	M3	122	2C	+ 0.10	FL	56	N3921	
B&W BOB	5	26	001	39	1.10	M2	110	1H	- 0.30	FL	28	N0942	
B&W BOB	5	78	001	33	1.40	M2	124	1H	+ 0.10	FL	53	S2680	
B&W BOB	6	26	001	29	1.20	M2	117	1H	- 0.30	FL	28	N0942	
B&W BOB	6	37	001	36	3.00	M2	110	2H	- 0.10	FL	7	N8259	
B&W BOB	6	38	001	24	1.90	M2	121	1H	- 0.10	FL	7	N8259	
B&W BOB	6	39	001	31	1.50	M2	115	2H	- 0.10	FL	7	N8259	
B&W BOB	6	45	001	34	1.30	M2	112	1H	- 0.10	FL	7	N8259	
B&W BOB	6	46	001	39	1.90	M2	105	1H	- 0.10	FL	6	S2680	
B&W BOB	7	9	001	32	2.80	M2	115	1H	+ 0.00	FL	56	N3921	
B&W BOB			001	21	2.00	M2	123	3H	- 0.10	FL	56	N3921	
B&W BOB	7	13	001	20	2.10	M2	130	2H	- 0.10	FL	25	S2680	
B&W BOB	7	15	001	36	1.60	M2	117	1H	- 0.10	FL	25	N8259	
B&W BOB	7	29	001	38	2.20	M2	115	1H	- 0.10	FL	25	N8259	
B&W BOB	7	35	001	28	2.20	M2	121	1H	- 0.30	FL	6	S4373	
B&W BOB	7	46	001	39	1.10	M2	112	1H	- 0.40	FL	6	S4373	
B&W BOB	8	8	001	32	1.70	M1	112	1H	+ 0.00	FL	64	S2680	
B&W BOB	8	33	001	31	3.90	M2	120	3H	+ 0.10	FL	25	S2680	
B&W BOB	8	37	001	34	2.60	M2	116	1H	- 0.30	FL	6	S4373	
B&W BOB	9	24	001	29	1.40	M2	126	1H	+ 0.00	FL	25	S2680	
B&W BOB	9	28	001	34	0.90	M2	112	1H	- 0.10	FL	25	S2680	
B&W BOB	9	30	001	34	1.40	M2	118	1H	- 0.10	FL	25	N8259	
B&W BOB	9	88	001	35	1.10	M2	98	2H	+ 0.10	FL	9	N3921	
B&W BOB	10	36	001	27	2.90	M2	122	1H	- 0.30	FL	6	S4373	
B&W BOB	10	67	001	35	4.00	M2	113	2H	+ 0.00	FL	51	S4373	
B&W BOB	11	15	001	28	1.10	M2	121	1H	- 0.10	FL	24	N8259	
B&W BOB	11	34	001	38	0.70	M1	134	TSH	+ 1.20	FL	24	S2680	
B&W BOB			001	34	0.70	M1	121	TSH	+ 1.40	FL	24	S2680	
B&W BOB	12	92	001	25	1.40	M3	130	1C	- 0.10	FL	8	N0942	
B&W BOB	14	4	001	25	2.00	M3	120	1C	+ 0.10	FL	38	S4373	
B&W BOB	14	35	001	23	2.30	1	155	TSH	+ 1.80	FL	5	S2680	
B&W BOB	15	56	001	28	6.20	M2	112	1H	+ 0.40	FL	29	N3921	
B&W BOB	16	60	001	35	3.00	M2	107	1H	+ 0.20	FL	29	N3921	
B&W BOB	17	5	001	30	2.30	M3	116	1C	- 0.20	FL	38	S4373	
B&W BOB	19	6	001	26	1.70	M3	122	1C	- 0.20	FL	38	S4373	
B&W BOB	19	29	001	30	1.70	M2	126	2H	- 0.40	FL	20	S2680	
B&W BOB	20	25	001	37	1.20	1	116	3H	- 0.40	FL	20	S2680	
B&W BOB	21	60	001	34	1.60	M2	126	1H	- 0.20	FL	45	S2680	
B&W BOB	22	9	001	25	1.80	M3	121	1C	+ 0.10	FL	38	S4373	
B&W BOB	24	51	001	27	1.40	M4	129	AV1	- 1.10	FL	43	S2680	
B&W BOB	25	9	001	21	1.00	M2	0	AV4	+ 0.00	FL	64	S2680	
B&W BOB	25	18	001	33	2.50	M1	111	2H	+ 0.00	FL	64	S2680	
B&W BOB	26	10	001	29	2.20	M3	117	1C	- 0.10	FL	38	S4373	
B&W BOB	26	11	001	35	1.10	M2	114	1H	+ 0.00	FL	57	N0942	
B&W BOB	26	59	001	34	2.00	M2	120	2H	+ 0.10	FL	42	L1107	
B&W BOB	27	35	001	22	1.20	M4	0	7H	+ 33.00	FL	16	S4373	
B&W BOB			001	26	1.80	M4	0	7H	+ 47.00	FL	16	S4373	
B&W BOB			001	33	2.40	M4	0	7C	+ 48.00	FL	16	S4373	
B&W BOB	29	14	001	23	1.20	M3	129	1C	- 0.20	FL	14	S2680	
B&W BOB	30	14	001	22	1.20	M3	124	1C	- 0.20	FL	14	S4373	
B&W BOB	30	36	001	23	1.90	M2	115	2H	- 0.10	FL	14	S4373	

Plant: Beaver Valley Unit 1 Steam Generator: A
Page: 9/89 RES

QUERY: BOBBIN INDICATIONS 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	31	15	ODI	31	3.80	M3	122	2C	+	0.00	FL	13	MB259	
B&W BOB			ODI	32	2.50	M3	122	1C	-	0.20	FL	13	MB259	
B&W BOB	31	23	ODI	33	7.00	1	139	TSH	+	43.00	FL	13	MB259	
B&W BOB	31	69	WAR	28	1.60	M4	0	AV1	+	0.00	FL	37	MB259	
B&W BOB	32	32	WAR	34	3.80	M4	0	AV1	+	0.00	FL	13	S2680	
B&W BOB			WAR	27	3.40	M4	0	AV2	+	0.00	FL	13	S2680	
B&W BOB			WAR	29	1.80	M4	0	AV3	+	0.00	FL	13	S2680	
B&W BOB			WAR	24	1.30	M4	0	AV4	+	0.00	FL	13	S2680	
B&W BOB	32	42	ODI	28	1.50	M4	0	AV2	+	0.00	FL	12	S2680	
B&W BOB			ODI	33	1.20	M4	0	AV3	+	0.00	FL	12	S2680	
B&W BOB	32	67	ODI	34	1.90	M2	133	1H	-	0.10	FL	37	S2680	
B&W BOB	33	17	ODI	28	1.50	M4	29	AV4	+	0.00	FL	12	S4373	
B&W BOB	33	18	ODI	36	2.40	M3	118	1C	-	0.20	FL	12	S4373	
B&W BOB	33	56	ODI	23	1.20	M4	0	AV1	+	0.00	FL	58	MB259	
B&W BOB			ODI	29	1.40	M4	0	AV2	+	0.00	FL	58	MB259	
B&W BOB			ODI	31	1.60	M4	0	AV3	+	0.00	FL	58	MB259	
B&W BOB	33	64	ODI	27	2.20	M2	118	2H	-	0.10	FL	58	MB259	
B&W BOB	33	79	ODI	32	3.20	M3	130	3C	-	0.10	FL	37	MB259	
B&W BOB	35	17	ODI	23	1.30	M3	132	2C	-	0.10	FL	11	L1107	
B&W BOB	36	19	ODI	22	1.60	M3	133	1C	-	0.20	FL	11	L1107	
B&W BOB	36	36	ODI	30	0.70	M2	118	2H	-	0.40	FL	10	S4373	
B&W BOB	37	19	ODI	37	1.50	M3	117	2C	-	0.20	FL	4	S2680	
B&W BOB	37	71	ODI	34	1.00	M2	112	1H	-	0.10	FL	34	MB259	
B&W BOB	38	25	ODI	31	0.90	M3	132	1C	-	0.10	FL	4	S4373	
B&W BOB	38	36	ODI	34	1.70	M2	123	3H	-	0.10	FL	4	S2680	
B&W BOB	38	48	ODI	32	1.70	M2	114	1H	+	0.00	FL	34	MB259	
B&W BOB	38	54	ODI	37	1.30	M2	118	2H	-	0.10	FL	34	MB259	
B&W BOB	39	24	ODI	27	1.80	M3	132	2C	+	0.00	FL	3	L1107	
B&W BOB			ODI	27	1.30	M3	132	1C	-	0.20	FL	3	L1107	
B&W BOB	40	27	ODI	30	3.00	M3	128	2C	-	0.10	FL	3	L1107	
B&W BOB	40	44	ODI	35	2.50	M4	68	AV2	+	4.20	FL	3	S2680	
W BOB	41	57	WAR	23	1.30	M4	0	AV3	+	0.30	FL	31	M3921	
W BOB			WAR	34	2.50	M4	0	AV4	+	0.00	FL	31	M3921	
B&W BOB	42	29	ODI	21	2.20	M3	132	1C	+	0.10	FL	2	L1107	
B&W BOB	43	33	ODI	24	1.40	M3	128	2C	-	0.20	FL	2	L1107	
B&W BOB	43	35	ODI	25	1.80	M3	127	3C	-	0.20	FL	2	L1107	
B&W BOB			ODI	22	1.80	M3	131	2C	-	0.10	FL	2	L1107	
B&W BOB	43	38	ODI	21	1.40	M2	132	1H	+	0.30	FL	2	L1107	
B&W BOB	45	39	ODI	25	2.00	M3	127	4C	+	0.10	FL	2	S2680	
B&W BOB	45	59	ODI	28	3.40	M3	121	3C	+	0.10	FL	26	L1107	
B&W BOB	46	42	ODI	33	3.00	M3	109	2C	-	0.10	FL	1	S4373	

TOTAL TUBES FOUND = 96
TOTAL INDICATIONS FOUND = 111
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: BOBBIN INDICATIONS > 20% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	3	34	DDI	19	1.00	1	165	2H	+ 31.40	7H	33	S4373	
B&W BOB	4	20	DDI	19	1.30	M2	130	4H	- 0.20	FL	28	ND942	
B&W BOB	10	2	DDI	19	0.90	M3	150	2C	- 0.20	FL	40	L1107	
B&W BOB	15	90	DDI	19	1.10	M3	141	1C	- 0.10	FL	8	S4373	
B&W BOB	16	4	DDI	19	1.30	M3	147	1C	+ 0.00	FL	38	S4373	
B&W BOB	17	5	DDI	19	1.00	M3	143	2C	+ 0.10	FL	38	S4373	
B&W BOB	18	89	DDI	19	1.10	M3	141	1C	- 0.10	FL	8	S4373	
B&W BOB	19	6	DDI	19	1.00	M3	135	2C	+ 0.20	FL	38	S4373	
B&W BOB	21	22	DDI	11	0.60	M4	0	AV2	+ 0.00	FL	64	H3921	
B&W BOB	22	80	DDI	18	1.00	M4	116	AV4	+ 0.00	FL	44	L1107	
B&W BOB	24	51	WAR	13	0.90	M4	90	AV4	+ 0.00	FL	43	S4373	
B&W BOB			WAR	14	1.00	M4	111	AV3	+ 0.00	FL	43	S4373	
B&W BOB	25	65	DDI	11	0.80	M4	51	AV4	+ 0.00	FL	43	S4373	
B&W BOB	26	34	DDI	16	0.90	M4	141	AV4	+ 0.00	FL	16	ND942	
B&W BOB	29	84	DDI	19	1.40	M3	148	3C	- 0.10	FL	61	L1107	
B&W BOB	30	53	WAR	12	0.70	M4	0	AV2	+ 0.00	FL	39	H3921	
B&W BOB	31	23	DDI	19	0.60	1	150	TSH	+ 34.00	FL	13	H8259	
B&W BOB	33	43	DDI	12	0.70	M4	56	AV1	+ 0.00	FL	12	S4373	
B&W BOB	33	56	DDI	19	1.10	M4	0	AV4	+ 0.00	FL	58	H8259	
B&W BOB	36	61	DDI	16	0.80	M4	0	AV2	+ 0.00	FL	58	H8259	
B&W BOB	36	66	DDI	14	0.80	M4	0	AV4	+ 0.00	FL	35	H8259	
B&W BOB	38	24	DDI	19	1.00	M3	149	1C	+ 1.10	FL	4	S4373	
B&W BOB	40	25	DDI	19	1.50	M3	137	1C	+ 0.00	FL	3	S2680	
B&W BOB	41	65	DDI	19	1.50	M3	146	1C	- 0.20	FL	32	S2680	
B&W BOB	42	29	DDI	19	1.40	M3	135	2C	- 0.20	FL	2	L1107	
B&W BOB	42	67	DDI	15	1.50	M3	128	3C	- 0.10	FL	31	S2680	
B&W BOB	43	30	DDI	19	1.60	M3	140	3C	- 0.10	FL	2	L1107	
B&W BOB	43	31	DDI	19	2.00	M3	144	3C	- 0.20	FL	2	L1107	
B&W BOB	44	33	DDI	19	1.70	M3	141	3C	- 0.10	FL	2	S2680	
B&W BOB	44	37	DDI	19	1.40	M3	134	3C	- 0.20	FL	2	S2680	
B&W BOB	44	38	DDI	19	1.30	1	149	1C	- 0.10	FL	2	S2680	
B&W BOB	45	38	DDI	19	1.30	M3	141	3C	- 0.20	FL	2	S2680	

TOTAL TUBES FOUND = 31
TOTAL INDICATIONS FOUND = 32
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	1	17	DSI		0.90	M2	114	2H	-	0.10	7H	33	S4373	
B&W BOB			DSI		0.90	M2	104	1H	+	0.40	7H	33	S4373	
B&W BOB	1	28	DSI		1.20	M2	113	1H	+	0.40	7H	33	S4373	
B&W BOB	1	33	DSI		0.90	M2	121	3H	+	0.10	7H	33	S4373	
B&W BOB			DSI		0.80	M2	104	1H	+	0.40	7H	33	S4373	
B&W BOB	1	34	DSI		1.50	M2	88	1H	+	0.40	7H	33	S4373	
B&W BOB	1	43	DSI		1.10	M2	116	1H	+	0.00	7H	53	S4373	
B&W BOB	1	46	DSI		0.90	M2	99	1H	+	0.00	7H	30	S2680	
B&W BOB			DSI		1.00	M2	117	1H	+	0.40	7H	53	S2680	
B&W BOB	2	1	DSI		1.20	M2	111	2H	+	0.10	7H	30	L1107	
B&W BOB	2	2	DSI		1.00	M2	102	2H	+	0.10	7H	30	L1107	
B&W BOB	2	8	DSI		0.70	M2	130	1H	+	0.10	7H	30	L1107	
B&W BOB	2	9	DSI		0.90	M2	89	1H	+	0.10	7H	30	L1107	
B&W BOB	2	26	DSI		1.10	M2	93	1H	+	0.30	7H	33	S4373	
B&W BOB	2	29	DSI		1.10	M2	119	1H	+	0.00	7H	33	S4373	
B&W BOB	2	30	DSI		1.10	M2	113	1H	+	0.40	7H	33	S4373	
B&W BOB	2	31	DSI		1.50	M2	134	1H	+	0.00	7H	33	S4373	
B&W BOB	2	32	DSI		1.20	M2	128	3H	+	0.40	7H	33	S4373	
B&W BOB	2	34	DSI		1.00	M2	108	2H	+	0.10	7H	33	S2680	
B&W BOB	2	37	DSI		0.90	M2	118	1H	-	0.10	7H	53	S4373	
B&W BOB	2	53	DSI		0.80	M2	109	1H	+	0.00	7H	29	S2680	
B&W BOB	2	54	DSI		1.20	M2	120	1H	+	0.00	7H	29	K3921	
B&W BOB	2	63	DSI		0.90	M2	110	2H	+	0.10	7H	30	L1107	
B&W BOB			DSI		1.00	M2	111	2H	+	0.30	7H	33	S2680	
B&W BOB	2	69	DSI		0.60	M2	123	1H	+	0.40	7H	33	S4373	
B&W BOB	2	70	DSI		0.60	M2	106	2H	+	0.10	7H	33	S4373	
B&W BOB	2	73	DSI		0.70	M2	99	1H	+	0.40	7H	33	S4373	
B&W BOB	2	79	DSI		1.20	M2	123	1H	+	0.10	7H	33	S4373	
B&W BOB	2	86	DSI		1.10	M2	160	2H	+	0.40	7H	33	S4373	
B&W BOB	3	2	DSI		0.70	M2	102	2H	+	0.10	7H	30	L1107	
B&W BOB	3	3	DSI		0.70	M2	126	2H	+	0.20	7H	30	L1107	
B&W BOB	3	5	DSI		1.20	M2	120	1H	+	0.20	7H	30	S2680	
B&W BOB	3	22	DSI		2.00	M2	122	1H	+	0.00	7H	33	S4373	
B&W BOB	3	23	DSI		1.60	M2	151	2H	+	0.30	7H	33	S4373	
B&W BOB			DSI		2.10	M2	119	1H	+	0.10	7H	33	S4373	
B&W BOB	3	27	DSI		1.00	M2	112	1H	+	0.00	7H	33	S2680	
B&W BOB			DSI		1.40	M2	119	2H	-	0.10	7H	33	S4373	
B&W BOB	3	28	DSI		3.50	M2	111	1H	+	0.00	7H	33	S4373	
B&W BOB	3	34	DSI		0.80	M2	114	1H	+	0.40	7H	33	S4373	
B&W BOB	3	37	DSI		1.10	M2	116	2H	-	0.10	7H	65	L1107	
B&W BOB	3	38	DSI		1.50	M2	113	2H	-	0.20	7H	65	L1107	
B&W BOB	3	42	DSI		1.50	M2	109	1H	-	0.10	7H	65	S2680	
B&W BOB	3	45	DSI		0.70	M2	135	1H	+	0.20	7H	30	L1107	
B&W BOB	3	52	DSI		1.30	M2	106	1H	+	0.00	7H	29	K3921	
B&W BOB	3	53	DSI		0.90	M2	96	1H	+	0.10	7H	29	K3921	
B&W BOB	3	56	DSI		0.80	M2	108	2H	+	0.00	7H	29	S2680	
B&W BOB			DSI		1.30	M2	112	1H	-	0.10	7H	29	K3921	
B&W BOB	3	57	DSI		0.70	M2	124	2H	+	0.10	7H	29	K3921	
B&W BOB			DSI		0.70	M2	97	1H	+	0.00	7H	29	K3921	
B&W BOB	3	59	DSI		1.30	M2	106	1H	+	0.10	7H	29	K3921	
B&W BOB	3	61	DSI		0.60	M2	133	1H	-	0.20	7H	29	K3921	
B&W BOB	3	62	DSI		0.70	M2	119	2H	+	0.00	7H	29	K3921	
B&W BOB			DSI		1.10	M2	124	1H	+	0.10	7H	29	K3921	
B&W BOB	3	63	DSI		0.70	M2	110	1H	+	0.00	7H	33	S2680	
B&W BOB	3	65	DSI		0.90	M2	117	2H	+	0.10	7H	33	K3921	
B&W BOB			DSI		1.10	M2	128	1H	+	0.20	7H	33	K3921	
B&W BOB	3	71	DSI		1.00	M2	95	1H	+	0.10	7H	33	K3921	
B&W BOB	3	75	DSI		1.20	M2	95	2H	+	0.00	7H	33	S2680	
B&W BOB	3	78	DSI		2.40	M2	94	1H	+	0.20	7H	33	S2680	
B&W BOB	3	84	DSI		0.80	M2	98	1H	+	0.10	7H	33	K3921	
B&W BOB	4	2	DSI		1.60	M2	87	2H	-	0.10	FL	57	K3921	
B&W BOB	4	4	DSI		1.00	M2	122	1H	+	0.00	FL	57	K3921	
B&W BOB	4	6	DSI		1.20	M2	113	1H	+	0.00	FL	57	M0942	ODI
B&W BOB	4	12	DSI		0.70	M2	105	1H	-	0.10	FL	26	L1107	
B&W BOB	4	13	DSI		0.70	M2	126	1H	+	0.00	FL	26	M0942	
B&W BOB			DSI		0.70	M2	131	3H	-	0.10	FL	26	M0942	
B&W BOB	4	15	DSI		0.80	M2	110	1H	-	0.20	FL	28	S4373	
B&W BOB	4	18	DSI		0.90	M2	115	2H	-	0.10	FL	64	K3921	
B&W BOB	4	20	DSI		2.20	M2	116	1H	-	0.30	FL	28	M0942	
B&W BOB	4	25	DSI		1.00	M2	125	2H	-	0.30	FL	28	M0942	

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	STM	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	4	27	DSI		1.00	M2	99	1H	-	0.40	FL	28	M0942	
B&W BOB	4	29	DSI		1.00	M2	119	2H	-	0.40	FL	28	S4373	
B&W BOB	4	31	DSI		2.10	M2	118	1H	-	0.30	FL	28	M0942	
B&W BOB			DSI		1.30	M2	131	2H	-	0.30	FL	28	M0942	
B&W BOB			DSI		0.70	M2	124	6H	+	0.00	FL	28	M0942	
B&W BOB	4	32	DSI		2.30	M2	117	1H	-	0.40	FL	28	M0942	
B&W BOB			DSI		0.70	M2	109	3H	+	0.00	FL	28	M0942	
B&W BOB	4	39	DSI		1.20	M2	120	1H	-	0.10	FL	7	N8259	
B&W BOB	4	41	DSI		2.00	M2	116	1H	-	0.20	FL	7	M0942	CDI
B&W BOB	4	42	DSI		1.30	M2	106	1H	-	0.10	FL	7	N8259	
B&W BOB			DSI		0.80	M2	98	2H	-	0.10	FL	7	N8259	
B&W BOB	4	43	DSI		1.40	M2	131	3H	+	0.00	FL	7	N8259	
B&W BOB	4	44	DSI		1.10	M2	128	2H	-	0.10	FL	7	M0942	CDI
B&W BOB	4	46	DSI		0.60	M2	109	2H	+	0.00	FL	7	M0942	
B&W BOB	4	49	DSI		0.70	M2	82	1H	+	0.00	FL	29	K3921	
B&W BOB			DSI		0.70	M2	97	1H	+	0.00	FL	56	S2680	
B&W BOB	4	53	DSI		0.90	M2	93	1H	+	0.10	FL	29	K3921	
B&W BOB			DSI		0.70	M2	110	1H	+	0.00	FL	56	K3921	
B&W BOB	4	58	DSI		2.10	M2	109	2H	+	0.20	7H	27	S2680	
B&W BOB			DSI		1.30	M2	98	1H	+	0.00	7H	27	L1107	
B&W BOB	4	67	DSI		2.30	M2	111	1H	+	0.10	FL	53	S4373	
B&W BOB	4	69	DSI		1.20	M2	108	1H	+	0.10	FL	53	S4373	
B&W BOB	4	81	DSI		1.30	M2	118	1H	+	0.10	FL	53	S4373	
B&W BOB	5	6	DSI		1.30	M2	101	2H	+	0.00	FL	56	M0942	CDI
B&W BOB	5	9	DSI		0.60	M2	119	2H	-	0.10	FL	56	M0942	DSI
B&W BOB	5	10	DSI		0.80	M2	117	3H	+	0.00	FL	56	M0942	
B&W BOB	5	24	DSI		2.00	M2	105	1H	-	0.40	FL	28	M0942	
B&W BOB			DSI		0.80	M2	105	2H	-	0.40	FL	28	M0942	
B&W BOB	5	27	DSI		1.00	M2	98	1H	-	0.40	FL	28	S4373	
B&W BOB	5	28	DSI		1.30	M2	104	1H	-	0.30	FL	28	M0942	
B&W BOB	5	29	DSI		1.00	M2	97	1H	-	0.40	FL	28	M0942	
B&W BOB			DSI		0.70	M2	128	6H	-	0.30	FL	28	M0942	
B&W BOB	5	33	DSI		0.90	M2	115	1H	-	0.40	FL	28	M0942	
B&W BOB	5	35	DSI		0.90	M2	95	1H	-	0.10	FL	7	N8259	
B&W BOB	5	36	DSI		0.70	M2	128	1H	-	0.10	FL	7	N8259	
B&W BOB	5	54	DSI		0.70	M2	76	1H	+	0.00	7H	27	L1107	
B&W BOB	5	57	DSI		0.80		99	1H	+	0.00	7H	27	S2680	
B&W BOB	5	65	DSI		0.90	M2	88	1H	+	0.10	FL	52	N8259	
B&W BOB	5	66	DSI		0.70	M2	103	2H	+	0.10	FL	52	N8259	
B&W BOB	5	73	DSI		1.20	M2	133	1H	+	0.10	FL	53	S4373	
B&W BOB	5	86	DSI		0.70	M2	90	1H	-	0.40	FL	10	S4373	
B&W BOB	6	3	DSI		1.10	M2	125	1H	-	0.10	FL	56	K3921	
B&W BOB	6	7	DSI		2.00	M2	119	2H	-	0.10	FL	56	S2680	CDI
B&W BOB	6	8	DSI		0.60	M2	109	1H	+	0.00	FL	56	K3921	
B&W BOB	6	13	DSI		1.10	M2	120	1H	-	0.30	FL	28	M0942	
B&W BOB	6	14	DSI		0.80	M2	113	2H	-	0.40	FL	28	S4373	
B&W BOB	6	23	DSI		0.80	M2	135	2H	+	0.00	FL	28	M0942	
B&W BOB	6	25	DSI		0.60	M2	108	1H	-	0.10	FL	28	S4373	
B&W BOB	6	30	DSI		1.60	M2	121	1H	-	0.20	FL	25	N8259	
B&W BOB	6	32	DSI		0.90	M2	79	1H	-	0.10	FL	25	N8259	
B&W BOB	6	33	DSI		2.80	M2	112	1H	-	0.20	FL	25	M0942	
B&W BOB			DSI		0.90	M2	121	3H	-	0.10	FL	25	M0942	CDI
B&W BOB	6	36	DSI		1.40	M2	102	1H	-	0.20	FL	7	M0942	CDI
B&W BOB	6	37	DSI		2.40	M2	99	1H	-	0.20	FL	7	N8259	
B&W BOB	6	39	DSI		1.90	M2	116	1H	+	0.00	FL	7	N8259	
B&W BOB	6	41	DSI		0.90	M2	128	1H	-	0.10	FL	7	N8259	
B&W BOB	6	42	DSI		1.60	M2	101	1H	-	0.20	FL	7	N8259	
B&W BOB			DSI		0.70	M2	126	2H	-	0.10	FL	7	N8259	
B&W BOB	6	43	DSI		0.80	M2	109	2H	-	0.10	FL	7	N8259	
B&W BOB	6	45	DSI		0.80	M2	99	2H	-	0.10	FL	7	N8259	
B&W BOB	6	47	DSI		0.80	M2	100	1H	-	0.10	FL	6	S2680	
B&W BOB	6	48	DSI		0.60	M2	122	1H	-	0.40	FL	6	S4373	
B&W BOB	6	60	DSI		1.10	M2	112	2H	+	0.20	7H	27	S2680	
B&W BOB			DSI		2.10	M2	99	1H	+	0.10	7H	27	S2680	
B&W BOB	6	61	DSI		1.90	M2	93	1H	+	0.20	7H	27	L1107	
B&W BOB	6	62	DSI		0.90	M2	95	1H	+	0.10	7H	27	L1107	
B&W BOB	6	63	DSI		0.80	M2	111	1H	+	0.00	FL	52	N8259	
B&W BOB	6	64	DSI		0.90	M2	135	2H	+	0.00	FL	52	N8259	
B&W BOB			DSI		2.70	M2	99	1H	+	0.00	FL	52	S2680	
B&W BOB	6	81	DSI		2.00	M2	97	1H	+	0.20	FL	52	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	XTV	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	6	82	DSI		0.80	M2	99	1H	+	0.10	FL	52	H8259	
B&W BOB	6	86	DSI		0.80	M2	137	1H	-	0.10	FL	10	S4373	
B&W BOB	7	5	DSI		1.10	M2	125	3H	-	0.10	FL	56	K3921	
B&W BOB	7	6	DSI		0.70	M2	107	1H	+	0.00	FL	56	K3921	
B&W BOB	7	11	DSI		0.90	M2	106	1H	+	0.00	FL	25	H8259	
B&W BOB	7	13	DSI		1.30	M2	112	1H	-	0.10	FL	25	S2680	001
B&W BOB	7	15	DSI		0.80	M2	110	2H	-	0.10	FL	25	H8259	
B&W BOB	7	17	DSI		0.90	M2	126	2H	-	0.10	FL	25	H8259	
B&W BOB	7	21	DSI		1.30	M2	115	1H	-	0.10	FL	25	S2680	001
B&W BOB	7	26	DSI		1.10	M2	104	1H	-	0.10	FL	25	H8259	
B&W BOB	7	30	DSI		0.80	M2	127	1H	-	0.10	FL	25	H8259	
B&W BOB	7	32	DSI		0.80	M2	115	1H	+	0.00	FL	25	H8259	
B&W BOB	7	37	DSI		0.80	M2	107	1H	-	0.40	FL	6	S4373	
B&W BOB	7	38	DSI		0.80	M2	107	1H	+	0.00	FL	6	S2680	
B&W BOB	7	45	DSI		1.10	M2	92	2H	-	0.10	FL	6	S2680	
B&W BOB	7	47	DSI		1.60	M2	107	1H	-	0.30	FL	6	S2680	
B&W BOB	7	51	DSI		1.30	M2	104	1H	+	0.10	7H	27	L1107	
B&W BOB	7	52	DSI		1.00	M2	108	2H	+	0.10	7H	27	S2680	
B&W BOB			DSI		1.10	M2	119	1H	+	0.10	7H	27	S2680	
B&W BOB	7	55	DSI		1.20	M2	116	2H	+	0.10	7H	27	S2680	0
B&W BOB	7	57	DSI		1.00	M2	106	1H	+	0.00	7H	27	L1107	
B&W BOB	7	62	DSI		1.50	M2	116	1H	+	0.10	7H	27	S2680	
B&W BOB	7	63	DSI		1.00	M2	106	2H	+	0.20	FL	52	S2680	
B&W BOB			DSI		2.20	M2	102	1H	+	0.10	FL	52	S2680	
B&W BOB	7	75	DSI		0.70	M2	118	1H	+	0.20	FL	52	H8259	
B&W BOB	7	78	DSI		1.10	M2	110	1H	+	0.10	FL	52	S2680	
B&W BOB	7	80	DSI		0.80	M2	97	1H	+	0.00	FL	52	H8259	
B&W BOB	8	5	DSI		0.70	M2	106	3H	+	0.10	FL	64	K3921	
B&W BOB	8	6	DSI		0.80	M2	111	2H	+	0.20	FL	40	B0962	
B&W BOB	8	8	DSI		0.60	M2	114	3H	-	0.10	FL	64	K3921	
B&W BOB			DSI		1.40	M2	109	2H	+	0.10	FL	64	K3921	
B&W BOB	8	9	DSI		1.30	M2	117	4H	+	0.20	FL	64	K3921	
B&W BOB			DSI		0.90	M2	122	3H	+	0.20	FL	64	K3921	
B&W BOB			DSI		1.20	M1	106	2H	+	0.00	FL	64	S2680	
B&W BOB	8	21	DSI		1.30	M2	142	2H	+	0.00	FL	25	H8259	
B&W BOB	8	24	DSI		0.90	M2	135	1H	-	0.20	FL	25	H8259	
B&W BOB			DSI		1.20	M2	156	2H	-	0.10	FL	25	H8259	
B&W BOB	8	26	DSI		1.00	M2	72	1H	-	0.10	FL	25	H8259	
B&W BOB	8	30	DSI		0.90	M2	123	1H	+	0.10	FL	25	H8259	
B&W BOB	8	32	DSI		1.40	M2	101	1H	-	0.20	FL	25	H8259	
B&W BOB	8	33	DSI		2.50	M2	121	2H	-	0.20	FL	25	S2680	001
B&W BOB			DSI		1.50	M2	135	4H	-	0.20	FL	25	S2680	
B&W BOB	8	37	DSI		0.60	M2	111	2H	-	0.30	FL	6	S4373	
B&W BOB	8	42	DSI		0.80	M2	105	1H	-	0.40	FL	6	S4373	
B&W BOB	8	50	DSI		0.80	M2	87	1H	+	0.10	7H	27	L1107	
B&W BOB	8	54	DSI		1.60	M2	115	1H	-	0.10	7H	27	S2680	
B&W BOB	8	64	DSI		0.70	M2	116	1H	-	0.10	FL	52	H8259	
B&W BOB	8	70	DSI		0.80	M2	84	1H	+	0.10	FL	52	H8259	
B&W BOB	8	72	DSI		0.60	M2	105	1H	+	0.20	FL	52	H8259	
B&W BOB	8	74	DSI		1.00	M2	101	1H	+	0.10	FL	52	H8259	
B&W BOB	8	76	DSI		1.00	M2	103	1H	+	0.20	FL	52	S2680	
B&W BOB	8	78	DSI		1.40	M2	122	2H	+	0.20	FL	51	S4373	
B&W BOB	8	79	DSI		1.30	M2	123	1H	+	0.20	FL	51	S4373	
B&W BOB	8	81	DSI		1.30	M2	103	1H	+	0.00	FL	51	S4373	
B&W BOB	9	19	DSI		0.90	M2	57	1H	-	0.10	FL	24	H8259	
B&W BOB	9	22	DSI		1.50	M2	41	1H	-	0.10	FL	25	H8259	001
B&W BOB	9	25	DSI		1.00	M2	121	1H	+	0.00	FL	25	S2680	
B&W BOB	9	26	DSI		1.80	M2	121	1H	+	0.00	FL	25	S2680	001
B&W BOB			DSI		0.90	M2	107	2H	-	0.10	FL	25	S2680	
B&W BOB	9	27	DSI		1.50	M2	112	1H	-	0.20	FL	25	S2680	
B&W BOB			DSI		1.30	M2	127	2H	+	0.10	FL	25	S2680	001
B&W BOB			DSI		2.00	M2	114	4H	-	0.30	FL	25	S2680	
B&W BOB	9	29	DSI		0.80	M2	124	1H	-	0.10	FL	25	H8259	
B&W BOB	9	30	DSI		1.10	M2	106	2H	-	0.20	FL	25	H8259	
B&W BOB	9	35	DSI		1.40	M2	118	1H	-	0.30	FL	6	S2680	
B&W BOB	9	39	DSI		1.10	M2	86	1H	-	0.30	FL	6	S4373	
B&W BOB	9	40	DSI		2.10	M2	111	1H	-	0.40	FL	6	S4373	
B&W BOB	9	42	DSI		1.50	M2	115	2H	-	0.30	FL	6	S2680	
B&W BOB			DSI		1.60	M2	117	1H	-	0.40	FL	6	S2680	
B&W BOB	9	45	DSI		1.20	M2	113	1H	-	0.30	FL	6	S4373	

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	9	50	DSI		1.30	M2	109	1H	+ 0.00	7H	27	L1107	
B&W BOB	9	59	DSI		0.70	M2	123	2H	+ 0.20	7H	27	L1107	
B&W BOB			DSI		1.00	M2	122	1H	+ 0.10	7H	27	L1107	
B&W BOB	9	63	DSI		1.40	M2	102	1H	+ 0.40	FL	51	S4373	
B&W BOB	9	64	DSI		0.60	M2	91	1H	+ 0.00	FL	51	S2680	
B&W BOB	9	72	DSI		0.90	M2	110	1H	+ 0.00	FL	51	S4373	
B&W BOB	9	74	DSI		1.00	M2	109	1H	+ 0.10	FL	51	S4373	
B&W BOB	9	77	DSI		1.80	M2	106	1H	+ 0.20	FL	51	S2680	
B&W BOB	9	79	DSI		0.60	M2	108	2H	+ 0.00	FL	51	S2680	
B&W BOB	9	80	DSI		1.00	M2	106	2H	+ 0.40	FL	51	S4373	
B&W BOB	9	81	DSI		1.00	M2	91	1H	+ 0.10	FL	51	S4373	
B&W BOB	9	83	DSI		1.40	M2	105	1H	+ 0.20	FL	51	S4373	
B&W BOB	9	86	DSI		0.90	M2	104	2H	- 0.10	FL	9	K3921	
B&W BOB	9	92	DSI		0.90	M2	128	2H	+ 0.30	FL	9	K3921	
B&W BOB	10	17	DSI		1.00	M2	105	1H	+ 0.00	FL	24	S2680	
B&W BOB	10	23	DSI		1.10	M2	109	1H	- 0.10	FL	24	S2680	
B&W BOB	10	25	DSI		0.80	M2	121	1H	+ 0.00	FL	24	S2680	
B&W BOB	10	26	DSI		0.70	M2	122	1H	- 0.20	FL	24	H8259	
B&W BOB	10	28	DSI		0.90	M2	80	1H	+ 0.00	FL	24	S2680	
B&W BOB	10	39	DSI		0.90	M2	102	1H	- 0.40	FL	6	S4373	
B&W BOB	10	42	DSI		0.70	M2	133	1H	- 0.10	FL	6	S2680	
B&W BOB	10	49	DSI		1.10	M2	116	1H	+ 0.00	7H	27	L1107	
B&W BOB	10	51	DSI		0.70	M2	105	1H	+ 0.10	7H	27	L1107	
B&W BOB	10	58	DSI		0.80	M2	95	2H	+ 0.10	7H	27	L1107	
B&W BOB			DSI		1.30	M2	105	1H	+ 0.10	7H	27	S2680	
B&W BOB	10	59	DSI		0.90	M2	122	1H	+ 0.20	7H	27	L1107	
B&W BOB	10	61	DSI		1.30	M2	99	1H	+ 0.20	7H	27	L1107	
B&W BOB	10	65	DSI		1.00	M2	91	1H	+ 0.20	FL	51	S4373	
B&W BOB	10	67	DSI		1.30	M2	102	1H	+ 0.00	FL	51	S4373	
B&W BOB	10	77	DSI		0.70	M2	131	1H	+ 0.00	FL	51	S4373	
B&W BOB	11	19	DSI		0.90	M2	126	1H	+ 0.00	FL	24	S2680	
B&W BOB	11	22	DSI		0.70	M2	116	1H	+ 0.10	FL	24	H8259	
B&W BOB			DSI		0.70	M2	141	2H	- 0.10	FL	24	H8259	
B&W BOB	11	26	DSI		0.80	M2	128	1H	+ 0.00	FL	24	H8259	
B&W BOB	11	31	DSI		1.30	M2	118	1H	- 0.20	FL	24	S2680	OD1
B&W BOB	11	34	DSI		2.30	M2	123	1H	+ 0.00	FL	24	S2680	
B&W BOB	11	36	DSI		1.40	M2	109	1H	- 0.20	FL	5	S2680	
B&W BOB			DSI		0.90	M2	113	2H	- 0.20	FL	5	H8259	
B&W BOB	11	37	DSI		0.70	M2	86	1H	- 0.10	FL	5	H8259	
B&W BOB	11	38	DSI		0.60	M2	137	1H	- 0.10	FL	5	H8259	
B&W BOB			DSI		1.00	M2	118	2H	- 0.20	FL	5	H8259	
B&W BOB	11	43	DSI		1.10	M2	122	1H	- 0.20	FL	5	S2680	
B&W BOB	11	47	DSI		0.70	M2	138	1H	- 0.40	FL	6	S4373	
B&W BOB	11	55	DSI		0.60	M2	94	1H	+ 0.10	7H	27	L1107	
B&W BOB	11	59	DSI		0.70	M2	106	1H	+ 0.20	7H	27	L1107	
B&W BOB	11	62	DSI		0.70	M2	105	1H	+ 0.00	7H	27	L1107	
B&W BOB	12	8	DSI		0.80	M2	139	2H	+ 0.00	FL	40	N0942	
B&W BOB	12	17	DSI		0.90	M2	38	1H	+ 0.00	FL	24	S2680	
B&W BOB	12	29	DSI		1.00	M2	125	1H	+ 0.00	FL	23	S2680	
B&W BOB	12	43	DSI		1.50	M2	115	1H	- 0.10	FL	5	S2680	
B&W BOB	12	51	DSI		1.50	M2	127	1H	+ 0.10	7H	27	L1107	
B&W BOB	12	52	DSI		1.70	M2	117	1H	+ 0.00	7H	27	S2680	
B&W BOB	12	56	DSI		0.70	M2	115	1H	+ 0.20	7C	27	L1107	
B&W BOB	12	58	DSI		0.90	M2	105	1H	+ 0.10	7H	27	L1107	
B&W BOB	12	59	DSI		1.10	M2	113	1H	+ 0.20	7H	27	S2680	
B&W BOB	12	63	DSI		1.70	M2	115	1H	+ 0.20	FL	50	S2680	
B&W BOB	13	75	DSI		1.60	M2	125	1H	+ 0.10	FL	50	S2680	
B&W BOB	14	4	DSI		0.90	M3	124	1H	+ 0.00	FL	38	N0942	
B&W BOB	14	14	DSI		1.00	M2	88	1H	- 0.30	FL	23	S2680	OD1
B&W BOB	14	21	DSI		0.80	M2	82	1H	- 0.40	FL	23	S4373	
B&W BOB	14	30	DSI		1.80	M2	128	1H	- 0.20	FL	23	S4373	
B&W BOB			DSI		1.40	M2	113	2H	- 0.10	FL	23	S2680	
B&W BOB	14	35	DSI		1.40	M2	97	2H	- 0.30	FL	5	S2680	
B&W BOB	14	37	DSI		0.90	M2	138	1H	- 0.10	FL	5	H8259	
[illegible]	[illegible]	38	DSI		0.50	M2	143	1H	- 0.10	FL	5	S2680	
[illegible]	[illegible]	42	DSI		2.30	M2	122	1H	- 0.30	FL	5	H8259	
B&W BOB	14	59	DSI		0.80	M2	104	1H	- 0.10	FL	29	K3921	
B&W BOB	14	61	DSI		0.90	M2	104	1H	+ 0.00	FL	29	S2680	
B&W BOB	15	10	DSI		0.80	M2	90	3H	+ 0.10	FL	38	S4373	
B&W BOB	15	23	DSI		0.90	M2	158	1H	+ 0.10	FL	64	K3921	

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	15	56	DSI		1.00	M2	97	2H	+	0.30	FL	29	K3921	
B&W BOB	15	61	DSI		0.60	M2	122	1H	-	0.10	FL	29	K3921	
B&W BOB	15	69	DSI		0.60	M2	65	1H	+	0.00	FL	49	K3921	
B&W BOB	16	24	DSI		0.90	M2	120	1H	+	0.00	FL	22	S2680	
B&W BOB	16	26	DSI		0.70	M2	108	1H	+	0.00	FL	22	S2680	
B&W BOB	16	32	DSI		0.70	M2	94	1H	-	0.10	FL	22	S2680	
B&W BOB	16	58	DSI		0.80	M2	103	1H	+	0.00	FL	29	S2680	
B&W BOB	16	85	DSI		0.60	M2	86	2H	+	0.00	FL	8	S4373	
B&W BOB	17	9	DSI		0.70	M2	112	1H	+	0.20	FL	38	S4373	
B&W BOB	17	44	DSI		1.10	M2	129	1H	-	0.10	FL	22	K3921	
B&W BOB			DSI		0.90	M2	138	2H	-	0.10	FL	22	K3921	
B&W BOB	17	58	DSI		0.80	M2	120	1H	-	0.20	FL	48	S2680	
B&W BOB	17	65	DSI		0.50	M2	108	1H	+	0.10	FL	49	K3921	
B&W BOB	17	68	DSI		0.90	M2	127	2H	-	0.10	FL	49	K3921	
B&W BOB	17	81	DSI		0.70	M2	93	1H	+	0.00	FL	49	K3921	
B&W BOB	18	51	DSI		1.00	M2	102	1H	-	0.40	FL	21	S2680	
B&W BOB	18	40	DSI		1.20	M2	100	1H	-	0.10	FL	59	N8259	
B&W BOB			DSI		0.90	M2	99	2H	-	0.10	FL	59	N8259	
B&W BOB	18	46	DSI		1.20	M2	129	1H	-	0.40	FL	21	S2680	
B&W BOB	18	58	DSI		0.90	M2	92	1H	-	0.10	FL	48	K3921	
B&W BOB	18	60	DSI		1.00	M2	114	1H	-	0.20	FL	48	S2680	
B&W BOB			DSI		0.60	M2	119	3H	-	0.10	FL	48	S2680	
B&W BOB	18	63	DSI		0.70	M2	132	1H	-	0.20	FL	48	K3921	
B&W BOB	19	14	DSI		1.40	M2	132	2H	-	0.40	FL	20	S2680	
B&W BOB	19	24	DSI		0.80	M2	131	1H	-	0.40	FL	20	S2680	
B&W BOB	19	28	DSI		0.90	M2	100	1H	-	0.40	FL	20	S2680	
B&W BOB	19	29	DSI		1.20	M2	138	1H	-	0.40	FL	20	S2680	
B&W BOB			DSI		1.30	M2	149	3H	-	0.40	FL	20	S2680	
B&W BOB	19	52	DSI		1.40	M2	112	1H	+	0.00	FL	46	N8259	
B&W BOB	19	55	DSI		0.80	M2	77	1H	+	0.00	FL	46	N8259	
B&W BOB	19	57	DSI		1.00	M2	34	1H	-	0.20	FL	46	S2680	
B&W BOB	19	61	DSI		0.90	M2	82	1H	-	0.20	FL	46	N8259	
B&W BOB	19	62	DSI		1.10	M2	68	1H	+	0.00	FL	46	S2680	
B&W BOB	19	63	DSI		1.40	M2	70	1H	-	0.10	FL	46	S2680	
B&W BOB	19	66	DSI		0.60	M2	117	1H	+	0.10	FL	48	K3921	
B&W BOB	19	82	DSI		0.60	M2	103	1H	-	0.10	FL	48	K3921	
B&W BOB	20	19	DSI		0.70	M2	127	1H	-	0.30	FL	20	S2680	
B&W BOB			DSI		0.70	M2	120	2H	-	0.30	FL	20	S2680	
B&W BOB	20	20	DSI		0.60	M2	124	1H	-	0.30	FL	20	S2680	
B&W BOB	20	21	DSI		0.70	M2	110	1H	-	0.40	FL	20	S2680	
B&W BOB	20	24	DSI		1.10	1	109	1H	-	0.30	FL	20	S2680	
B&W BOB	20	39	DSI		1.30	M2	147	1H	-	0.20	FL	19	K3921	
B&W BOB	20	42	DSI		1.40	M2	113	1H	-	0.10	FL	19	K3921	
B&W BOB	20	55	DSI		0.90	M2	66	1H	+	0.10	FL	46	N8259	
B&W BOB	20	60	DSI		1.30	M2	113	1H	+	0.00	FL	46	S2680	
B&W BOB	20	62	DSI		0.60	M2	106	1H	+	0.00	FL	46	S2680	
B&W BOB	20	74	DSI		0.80	M2	118	1H	-	0.10	FL	45	N8259	
B&W BOB	20	75	DSI		0.80	M2	102	1H	+	0.10	FL	45	N8259	
B&W BOB	20	81	DSI		0.90	M2	129	1H	+	0.10	FL	45	N8259	
B&W BOB	20	85	DSI		0.70	M3	106	1H	+	0.00	FL	8	N0942	
B&W BOB	21	11	DSI		0.60	M2	113	1H	-	0.10	FL	19	K3921	
B&W BOB	21	47	DSI		1.40	M2	126	1H	-	0.20	FL	19	K3921	
B&W BOB			DSI		0.80	M2	120	2H	+	0.10	FL	19	K3921	
B&W BOB	21	48	DSI		0.90	M2	95	1H	-	0.10	FL	45	L1107	
B&W BOB	21	54	DSI		2.30	M2	115	1H	-	0.20	FL	45	S2680	OD1
B&W BOB	21	57	DSI		0.80	M2	107	1H	-	0.20	FL	45	L1107	
B&W BOB	21	59	DSI		1.20	M2	126	1H	+	0.00	FL	45	S2680	
B&W BOB	21	65	DSI		1.80	M2	104	1H	-	0.20	FL	45	S2680	
B&W BOB	21	67	DSI		1.50	M2	160	1H	-	0.20	FL	45	L1107	
B&W BOB	21	70	DSI		0.70	M2	133	2H	-	0.20	FL	45	N8259	
B&W BOB	22	24	DSI		0.60	M1	85	1H	+	0.00	FL	64	S2680	
B&W BOB	22	38	DSI		1.10	M2	124	1H	-	0.20	FL	18	K3921	
B&W BOB	22	45	DSI		0.90	M2	134	1H	-	0.20	FL	59	N8259	
B&W BOB	22	60	DSI		1.00	M2	105	1H	-	0.10	FL	44	L1107	
B&W BOB	22	68	DSI		1.00	M2	89	1H	-	0.10	FL	44	L1107	
B&W BOB	22	69	DSI		0.60	M2	129	1H	+	0.00	FL	44	S2680	
B&W BOB	22	72	DSI		0.70	M2	58	1H	+	0.00	FL	44	S2680	
B&W BOB	23	29	DSI		0.70	M2	134	2H	+	0.10	FL	18	K3921	
B&W BOB	23	41	DSI		1.10	M2	119	1H	-	0.10	FL	18	K3921	
B&W BOB	23	85	DSI		0.80	M3	104	4H	+	0.00	FL	7	N0942	

Plant: Beaver Valley Unit 1 Steam Generator: A
Page: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	24	31	DSI		0.60	M2	101	1H	+	0.00	FL	17	S2680	
B&W BOB	24	34	DSI		1.30	M2	106	1H	-	0.10	FL	17	N8259	
B&W BOB	24	40	DSI		0.70	M2	96	2H	-	0.10	FL	17	N8259	
B&W BOB	24	54	DSI		1.00	M2	121	1H	+	0.00	FL	43	S4373	
B&W BOB	24	58	DSI		0.70	M2	141	2H	+	0.00	FL	43	S2680	
B&W BOB	24	72	DSI		0.80	M2	118	1H	+	0.00	FL	43	S2680	
B&W BOB			DSI		1.70	M2	95	2H	-	0.20	FL	43	S4373	
B&W BOB	24	76	DSI		1.30	M2	75	1H	+	0.10	FL	43	S4373	
B&W BOB	24	77	DSI		1.30	M2	81	2H	+	0.00	FL	43	S4373	
B&W BOB	25	8	DSI		1.10	M2	104	1H	+	0.40	FL	38	S4373	
B&W BOB	25	30	DSI		1.40	M2	101	1H	+	0.10	FL	17	N8259	
B&W BOB	25	36	DSI		0.90	M2	90	1H	-	0.10	FL	17	N8259	
B&W BOB	25	59	DSI		0.80	M2	110	1H	-	0.10	FL	43	S4373	
B&W BOB	25	61	DSI		1.00	M2	112	1H	-	0.10	FL	43	S4373	
B&W BOB	25	64	DSI		0.80	M2	132	1H	-	0.10	[illegible]	43	S4373	
B&W BOB	25	70	DSI		1.50	M2	117	1H	-	0.40	FL	43	S2680	
B&W BOB	25	75	DSI		1.10	M2	81	2H	-	0.10	FL	43	S4373	
B&W BOB	26	32	DSI		0.90	M2	121	1H	-	0.40	FL	16	S4373	
B&W BOB	26	35	DSI		0.80	M2	133	1H	-	0.30	FL	16	M0942	
B&W BOB	26	54	DSI		1.00	M2	87	2H	-	0.20	FL	42	L1107	
B&W BOB	26	59	DSI		1.80	M2	121	1H	+	0.00	FL	42	L1107	
B&W BOB	26	67	DSI		1.00	M2	93	2H	+	0.00	FL	42	L1107	
B&W BOB	27	17	DSI		0.90	M2	108	1H	-	0.10	FL	15	N8259	
B&W BOB	27	23	DSI		0.70	M2	131	1H	-	0.10	FL	15	N8259	
B&W BOB	27	24	DSI		1.60	M2	117	2H	+	0.00	FL	15	N8259	
B&W BOB	27	34	DSI		0.80	M2	92	1H	-	0.40	FL	16	S4373	
B&W BOB			DSI		0.70	M2	117	2H	+	0.00	FL	16	S4373	
B&W BOB	27	35	DSI		0.90	M2	73	1H	+	0.00	FL	16	S2680	
B&W BOB	27	41	DSI		1.10	M2	132	1H	+	0.00	FL	16	M0942	
B&W BOB	27	44	DSI		0.80	M2	93	1H	-	0.40	FL	16	S4373	
B&W BOB	27	51	DSI		1.00	M2	94	1H	-	0.10	FL	41	L1107	
B&W BOB	27	68	DSI		1.00	M2	122	1H	-	0.10	FL	42	L1107	
B&W BOB	27	72	DSI		1.30	M2	148	2H	-	0.10	FL	42	L1107	
B&W BOB	28	14	DSI		0.60	M2	119	1H	+	0.00	FL	15	S2680	
B&W BOB	28	17	DSI		0.70	M2	79	1H	+	0.00	FL	15	S2680	
B&W BOB	28	19	DSI		2.00	M2	111	2H	-	0.10	FL	15	N8259	
B&W BOB			DSI		0.70	M2	107	3H	+	0.00	FL	15	N8259	
B&W BOB	28	21	DSI		0.80	M2	100	1H	-	0.10	FL	15	N8259	
B&W BOB	28	26	DSI		1.60	M2	126	1H	-	0.10	FL	15	N8259	
B&W BOB			DSI		1.60	M2	115	2H	-	0.10	FL	15	N8259	
B&W BOB			DSI		0.90	M2	68	3H	+	0.00	FL	15	S2680	
B&W BOB	28	41	DSI		0.60	M2	95	1H	+	0.00	FL	15	S2680	
B&W BOB	28	42	DSI		0.80	M2	99	1H	-	0.10	FL	15	N8259	
B&W BOB	28	46	DSI		1.00	M2	122	2H	+	0.00	FL	15	N8259	
B&W BOB	28	49	DSI		0.90	M2	124	1H	+	0.00	FL	41	S2680	
B&W BOB	28	60	DSI		1.00	M2	72	1H	-	0.10	FL	41	L1107	
B&W BOB	28	70	DSI		0.90	M2	75	2H	-	0.20	FL	41	L1107	
B&W BOB	28	73	DSI		0.80	M2	95	1H	-	0.10	FL	41	L1107	
B&W BOB	28	74	DSI		0.90	M2	126	2H	+	0.10	FL	41	L1107	
B&W BOB	29	15	DSI		1.20	M2	125	2H	-	0.30	FL	14	S2680	
B&W BOB	29	29	DSI		0.60	M2	91	1H	-	0.40	FL	14	S4373	
B&W BOB	29	31	DSI		0.60	M2	104	1H	+	0.30	FL	14	S2680	
B&W BOB	29	53	DSI		0.70	M2	123	1H	+	0.20	FL	39	M0942	
B&W BOB	29	56	DSI		0.60	M2	100	2H	+	0.00	FL	39	K3921	
B&W BOB	29	57	DSI		0.90	M2	113	1H	+	0.00	FL	39	K3921	
B&W BOB			DSI		0.70	M2	118	2H	+	0.00	FL	39	K3921	
B&W BOB	29	58	DSI		0.90	M2	120	1H	-	0.20	FL	39	M0942	
B&W BOB			DSI		1.60	M2	124	2H	-	0.20	FL	39	M0942	
B&W BOB	29	59	DSI		0.60	M2	83	1H	+	0.00	FL	39	M0942	
B&W BOB	29	63	DSI		0.60	M2	117	2H	-	0.20	FL	39	K3921	
B&W BOB	30	36	DSI		1.70	M2	99	1H	-	0.30	FL	14	S2680	
B&W BOB	30	40	DSI		1.20	M2	110	2H	-	0.40	FL	14	S2680	
B&W BOB	30	43	DSI		1.60	M2	89	1H	-	0.40	FL	14	S2680	
B&W BOB	30	51	DSI		0.60	M2	136	1H	+	0.00	FL	39	K3921	
B&W BOB	30	69	DSI		0.90	M2	128	1H	+	0.10	FL	39	M0942	
B&W BOB			DSI		1.10	M2	96	2H	-	0.10	FL	39	M0942	
B&W BOB	30	70	DSI		0.80	M2	131	2H	-	0.10	FL	39	M0942	
B&W BOB	31	39	DSI		1.20	M2	100	2H	-	0.10	FL	13	N8259	
B&W BOB	31	42	DSI		1.50	M2	106	1H	-	0.10	FL	13	N8259	
B&W BOB	31	52	DSI		0.70	M2	89	1H	+	0.00	FL	59	N8259	

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	31	62	DSI		0.60	M2	121	1H	-	0.10	FL	37	N8259	
B&W BOB	31	72	DSI		1.10	M2	111	1H	+	0.00	FL	37	S2680	
B&W BOB	32	23	DSI		1.00	M2	89	1H	-	0.10	FL	13	N8259	
B&W BOB	32	29	DSI		1.00	M2	90	1H	-	0.10	FL	13	S2680	
B&W BOB	32	30	DSI		0.90	M2	110	1H	+	0.00	FL	13	N8259	
B&W BOB	32	38	DSI		0.60	M2	92	1H	+	0.00	FL	12	S2680	
B&W BOB	32	45	DSI		0.60	M2	98	1H	+	0.00	FL	12	S2680	
B&W BOB	32	63	DSI		0.80	M2	123	1H	+	0.10	FL	58	N8259	
B&W BOB	32	67	DSI		2.30	M2	131	2H	-	0.10	FL	37	N8259	
B&W BOB	32	69	DSI		1.10	M2	114	1H	-	0.10	FL	58	S2680	
B&W BOB	33	43	DSI		0.80	M2	118	1H	-	0.40	FL	12	S4373	
B&W BOB	33	57	DSI		1.10	M2	127	2H	+	0.20	FL	58	S2680	
B&W BOB	33	63	DSI		1.00	M2	95	2H	-	0.10	FL	58	S2680	
B&W BOB	33	64	DSI		1.40	M2	126	1H	-	0.10	FL	59	S2680	
B&W BOB	33	65	DSI		0.70	M2	126	1H	-	0.10	FL	58	N8259	
B&W BOB			DSI		2.00	M2	114	2H	-	0.10	FL	58	S2680	
B&W BOB	34	24	DSI		0.70	M1	111	1H	+	0.00	FL	64	S2680	
B&W BOB	34	25	DSI		0.60	M2	107	1H	-	0.40	FL	12	S4373	
B&W BOB			DSI		1.00	M2	126	2H	-	0.40	FL	12	S4373	
B&W BOB	34	27	DSI		0.60	M2	126	1H	-	0.40	FL	12	S4373	
B&W BOB	34	31	DSI		0.60	M2	144	1H	-	0.10	FL	11	N8259	
B&W BOB	34	37	DSI		1.80	M2	90	1H	-	0.10	FL	11	S2680	
B&W BOB	35	28	DSI		1.40	M2	129	1H	-	0.10	FL	11	N8259	
B&W BOB			DSI		0.60	M2	103	2H	-	0.10	FL	11	N8259	
B&W BOB			DSI		0.80	M2	102	3H	+	0.00	FL	11	N8259	
B&W BOB	35	34	DSI		0.90	M2	95	1H	+	0.00	FL	11	N8259	
B&W BOB			DSI		1.20	M2	108	2H	-	0.10	FL	11	N8259	
B&W BOB	35	35	DSI		0.70	M2	132	1H	+	0.10	FL	11	N8259	
B&W BOB	35	69	DSI		1.00	M2	126	1H	-	0.10	FL	58	N8259	
B&W BOB	35	70	DSI		0.80	M2	82	2H	-	0.10	FL	58	N8259	
B&W BOB	35	73	DSI		1.00	M2	129	1H	-	0.10	FL	58	N8259	
B&W BOB	36	23	DSI		1.40	M2	62	3H	+	0.00	FL	11	S2680	
B&W BOB	36	24	DSI		0.90	M2	112	1H	+	0.00	FL	11	L1107	
B&W BOB	36	35	DSI		0.90	M2	103	1H	-	0.60	FL	10	S4373	
B&W BOB	36	36	DSI		0.70	M2	129	1H	-	0.20	FL	10	S4373	
B&W BOB	36	55	DSI		1.10	M2	115	2H	+	0.00	FL	58	S2680	
B&W BOB	36	61	DSI		0.60	M2	107	2H	-	0.10	FL	58	N8259	
B&W BOB	36	69	DSI		0.80	M2	110	1H	+	0.00	FL	35	S2680	
B&W BOB	37	32	DSI		1.20	M2	106	1H	-	0.60	FL	4	S2680	C01
B&W BOB			DSI		0.80	M2	92	3H	-	0.60	FL	4	S4373	
B&W BOB	37	48	DSI		0.80	M2	92	2H	+	0.00	FL	34	N8259	
B&W BOB	37	54	DSI		1.00	M2	100	2H	-	0.10	FL	34	S2680	
B&W BOB	37	60	DSI		1.00	M2	97	2H	-	0.10	FL	36	S2680	
B&W BOB	38	36	DSI		1.30	M2	117	1H	-	0.40	FL	6	S4373	
B&W BOB	38	53	DSI		1.00	M2	127	2H	-	0.10	FL	36	N8259	
B&W BOB	38	64	DSI		0.90	M2	110	2H	-	0.10	FL	36	N8259	
B&W BOB			DSI		0.80	M2	122	3H	-	0.10	FL	36	N8259	
B&W BOB	38	68	DSI		0.80	M2	107	2H	-	0.10	FL	36	N8259	
B&W BOB	38	74	DSI		0.60	M2	100	1H	+	0.00	FL	32	N3921	
B&W BOB	39	27	DSI		1.00	M2	120	1H	-	0.30	FL	3	L1107	
B&W BOB	39	39	DSI		0.60	M2	80	2H	+	0.00	FL	4	S2680	
B&W BOB	39	51	DSI		0.90	M2	111	2H	-	0.10	FL	32	N3921	
B&W BOB	40	53	DSI		0.60	M2	110	1H	+	0.00	FL	32	N3921	

TOTAL TUBES FOUND = 411
TOTAL INDICATIONS FOUND = 473
TOTAL TUBES IN INPUT FILE = 3380

Plant: Beaver Valley Unit 1 Steam Generator: B
Cage: 9/89 RES

QUERY: BOBBIN INDICATIONS >= 40% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TYPE	ANLST	COMMENTS
B&W BOB	1	9	DDI	57	1.80	M3	106	1H	+ 0.00	7H	29	S2680	
B&W BOB	1	19	DDI	45	1.60	M3	104	1H	+ 0.10	7H	29	L1107	
B&W BOB	1	91	DDI	47	7.50	1	119	TSH	+ 17.00	7H	29	L1107	
B&W BOB	2	37	DDI	42	1.50	M3	108	1H	+ 0.40	7H	29	S2680	
B&W BOB	3	13	DDI	45	1.60	M2	109	1H	+ 0.10	7C	40	L1107	
B&W BOB			DDI	48	2.10	M3	107	1H	+ 0.20	7H	31	WD942	
B&W BOB	3	14	DDI	43	2.20	M3	111	1H	+ 0.40	7H	31	WD942	
B&W BOB	3	17	DDI	54	2.30	M2	100	1H	+ 0.20	7C	40	L1107	
B&W BOB			DDI	65	2.50	M3	92	1H	+ 0.40	7H	31	WD942	
B&W BOB	3	19	DDI	57	1.30	M2	97	1H	+ 0.10	7C	40	L1107	
B&W BOB			DDI	48	1.60	M3	107	1H	+ 0.10	7H	31	WD942	
B&W BOB	4	2	DDI	43	3.60	M1	114	1H	+ 0.10	FL	9	S2680	
B&W BOB	4	22	DDI	51	2.90	M2	110	1H	+ 0.00	FL	47	S2680	
B&W BOB	5	7	DDI	51	2.40	M2	107	2H	- 0.10	FL	9	K3921	
B&W BOB	5	70	DDI	54	1.30	M2	120	4H	- 0.20	FL	28	S2680	
B&W BOB	6	10	DDI	44	2.00	M2	115	1H	- 0.10	FL	9	S2680	
B&W BOB	6	15	DDI	63	1.70	M2	85	1H	+ 0.30	FL	47	K3921	
B&W BOB	6	27	DDI	43	1.80	M2	102	1H	+ 0.40	FL	47	K3921	
B&W BOB	6	91	DDI	54	0.60	M3	100	1C	+ 0.00	FL	57	S2680	
B&W BOB	7	33	DDI	46	1.10	M2	115	1H	+ 0.00	FL	44	L1107	
B&W BOB	9	7	DDI	50	1.10	M2	108	1H	+ 0.00	FL	8	S2680	
B&W BOB	9	43	DDI	42	1.90	M2	114	1H	- 0.20	FL	58	HB259	
B&W BOB	9	76	DDI	41	2.20	M2	105	1H	- 0.40	FL	51	S4373	
B&W BOB			DDI	56	2.30	M2	94	2H	- 0.40	FL	51	S4373	
B&W BOB	10	58	DDI	44	2.70	M1	96	1H	+ 0.00	FL	4	S2680	
B&W BOB	11	30	DDI	41	2.50	M2	126	1H	+ 0.10	FL	43	S2680	
B&W BOB	12	10	DDI	41	2.40	M2	103	1H	- 0.20	FL	33	HB259	
B&W BOB	12	13	DDI	41	3.40	M2	127	2H	- 0.10	FL	43	S2680	
B&W BOB	12	18	DDI	51	1.30	M2	114	1H	+ 0.20	FL	43	HB259	
B&W BOB	14	9	DDI	43	1.60	M2	95	1H	- 0.10	FL	33	HB259	
B&W BOB	15	8	DDI	55	1.90	M2	99	1H	- 0.30	FL	8	HB259	
B&W BOB	16	19	DDI	44	1.20	M2	101	1H	+ 0.10	FL	52	L1107	
B&W BOB	19	8	DDI	49	0.80	M2	107	1H	- 0.10	FL	7	S2680	
B&W BOB	21	10	DDI	44	1.50	M2	110	1H	- 0.10	FL	7	S2680	
B&W BOB	21	60	DDI	42	1.90	M2	108	1H	- 0.30	FL	51	S4373	
B&W BOB	21	88	DDI	46	1.60	M3	116	1C	- 0.20	FL	56	S2680	
B&W BOB	25	19	DDI	42	1.20	M2	102	1H	+ 0.00	FL	42	S2680	
B&W BOB	29	82	DDI	50	1.00	M3	103	1C	+ 0.00	FL	17	S2680	
B&W BOB	31	82	DDI	42	1.00	M3	122	1C	+ 0.10	FL	16	S2680	
B&W BOB	33	16	DDI	52	2.70	1	117	TSH	+ 0.40	FL	36	S2680	
B&W BOB	33	78	DDI	41	2.80	M3	109	1C	+ 0.00	FL	15	S2680	
B&W BOB	34	40	DDI	44	1.70	M2	106	1H	- 0.10	FL	36	S4373	
B&W BOB	46	53	DDI	43	3.60	M3	115	1C	+ 0.10	FL	10	S2680	

TOTAL TUBES FOUND = 39
TOTAL INDICATIONS FOUND = 43
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: BOBBIN INDICATIONS 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	1	65	001	29	0.90	M3	112	1H	+ 0.20	7H	29	L1107	
B&W BOB	1	93	001	29	2.40	1	141	TSH	+ 16.50	7H	29	S2680	
B&W BOB	2	2	001	33	1.20	M2	133	1H	- 0.10	7H	43	S2680	
B&W BOB	2	6	001	24	1.50	M2	137	3H	+ 0.20	7H	43	S2680	
B&W BOB	2	14	001	35	1.60	M3	110	1H	+ 0.20	7H	29	L1107	
B&W BOB	2	45	001	33	2.20	M3	143	1H	+ 0.20	7H	29	S2680	
B&W BOB	2	67	001	35	2.10	M3	118	3H	+ 0.40	7H	31	ND942	
B&W BOB			001	34	1.10	M3	119	2H	+ 0.40	7H	31	ND942	
B&W BOB	2	68	001	28	1.80	M3	126	3H	+ 0.40	7H	31	ND942	
B&W BOB	2	71	001	25	1.60	M3	129	2H	+ 0.40	7H	31	ND942	
B&W BOB	3	17	001	33	1.50	M3	125	2H	+ 0.20	7H	31	ND942	
B&W BOB	3	26	001	33	1.60	M2	118	1H	+ 0.10	7C	40	L1107	
B&W BOB			001	32	2.00	M3	122	1H	+ 0.20	7H	31	ND942	
B&W BOB	4	11	001	20	1.50	M2	108	2H	+ 0.00	FL	47	S2680	
B&W BOB	4	17	001	24	1.10	M2	114	1H	- 0.10	FL	47	M3921	
B&W BOB	4	19	001	36	1.60	M2	107	2H	- 0.10	FL	47	M3921	
B&W BOB			001	26	1.80	M2	113	1H	- 0.10	FL	47	M3921	
B&W BOB	4	21	001	39	1.10	M2	109	1H	+ 0.10	FL	47	M3921	
B&W BOB	5	7	001	34	1.00	M2	119	1H	- 0.10	FL	9	M3921	
B&W BOB	6	10	001	36	1.30	M2	123	2H	+ 0.00	FL	9	S2680	
B&W BOB	6	28	001	31	1.10	M2	110	1H	+ 0.30	FL	47	M3921	DSI
B&W BOB	6	68	001	37	1.20	M2	99	2H	- 0.20	FL	27	S2680	
B&W BOB	6	94	001	37	1.00	M3	143	2C	+ 0.20	FL	60	S2680	
B&W BOB	7	1	001	24	0.91	M1	134	2C	+ 0.00	FL	9	S2680	
B&W BOB	8	92	001	27	1.80	M3	134	1C	- 0.20	FL	57	NB259	
B&W BOB	9	40	001	23	1.30	M4	181	7H	+ 12.40	FL	58	S2680	WEAR
B&W BOB	9	4[illegible]	001	26	1.50	M2	130	1H	- 0.20	FL	58	NB259	
B&W BOB	9	69	001	35	1.10	M2	119	2H	- 0.20	FL	26	M3921	
B&W BOB	10	92	001	22	2.00	M3	132	1C	- 0.20	FL	56	S4373	
B&W BOB	11	30	001	29	1.90	M2	130	TSH	+ 1.60	FL	43	S2680	
B&W BOB	12	17	001	39	2.40	M2	123	1H	+ 0.00	FL	43	NB259	
[illegible]W BOB	12	69	001	24	1.50	M4	0	7H	+ 22.10	FL	25	NB259	
[illegible]W BOB	13	33	001	33	0.90	1	143	TSH	+ 2.20	FL	50	M3921	
B&W BOB	13	91	001	20	0.70	M3	128	1C	+ 0.00	FL	56	S2680	
B&W BOB	14	71	001	34	0.80	M2	105	1H	+ 0.00	FL	25	S2680	
B&W BOB	15	62	001	33	1.80	M1	107	1H	- 0.06	FL	4	S2680	
B&W BOB	16	5	001	22	1.40	M3	135	1C	+ 0.10	FL	8	NB259	
B&W BOB	16	6	001	24	1.40	M3	134	1C	+ 0.10	FL	8	NB259	
B&W BOB	16	34	001	21	0.60	M1	119	TSH	+ 1.20	FL	52	S2680	
B&W BOB			001	35	2.20	M1	118	1H	+ 0.00	FL	52	S2680	
B&W BOB	17	4	001	21	1.70	M3	129	1C	+ 0.00	FL	7	NB259	
B&W BOB	17	19	001	29	1.20	M2	123	2H	+ 0.00	FL	51	S2680	
B&W BOB	17	27	001	38	1.60	M2	105	1H	- 0.10	FL	52	L1107	
B&W BOB	17	34	001	34	1.80	M2	111	1H	+ 0.10	FL	52	L1107	
B&W BOB	17	53	001	38	2.20	M2	119	1H	- 0.10	FL	23	NB259	
B&W BOB	17	89	001	29	3.70	M3	125	1C	- 0.30	FL	56	S4373	
B&W BOB	18	57	001	37	1.90	M2	112	1H	- 0.10	FL	23	NB259	
B&W BOB	19	18	001	23	0.80	M4	220	AV1	+ 2.10	FL	48	S2680	WEAR
B&W BOB	21	29	001	28	1.60	M4	0	AV2	- 3.80	FL	48	S2680	WEAR
B&W BOB	21	87	001	23	3.50	M3	132	2C	- 0.20	FL	56	S4373	
B&W BOB	22	9	001	34	0.80	M3	120	1C	+ 0.00	FL	7	NB259	
B&W BOB	22	34	001	26	1.80	M2	130	3H	+ 0.00	FL	61	S2680	
B&W BOB	23	88	001	29	2.00	M3	128	1C	+ 0.00	FL	54	S4373	
B&W BOB	24	55	001	25	0.80	M2	139	1H	- 0.10	FL	1	S2680	
B&W BOB	24	86	001	22	1.20	M3	133	1C	+ 0.00	FL	54	S2680	
B&W BOB	25	10	001	26	1.20	M3	126	2C	+ 0.20	FL	7	NB259	
B&W BOB	25	86	001	32	1.80	M3	120	2C	+ 0.00	FL	54	S4373	
B&W BOB			001	25	1.30	M3	134	1C	+ 0.00	FL	54	S2680	
B&W BOB	26	85	001	24	1.70	M3	148	2C	- 0.10	FL	54	S4373	
B&W BOB	27	11	001	31	2.60	M3	120	1C	- 0.10	FL	41	L1107	
B&W BOB	28	13	001	30	3.40	M3	120	1C	- 0.20	FL	39	L1107	
B&W BOB	30	14	001	29	2.00	M3	114	1C	- 0.10	FL	38	M3921	
B&W BOB	31	15	001	37	1.30	M3	108	1C	+ 0.00	FL	37	S2680	
B&W BOB	31	78	001	27	1.80	M3	128	2C	- 0.10	FL	1	S2680	
B&W BOB	31	80	001	24	2.90	M3	131	1C	+ 0.10	FL	1	S2680	
[illegible]	[illegible]	[illegible]	001	29	1.60	M3	127	1C	+ 0.00	FL	16	NB259	
B&W BOB	32	46	001	23	1.00	M4	0	AV3	+ 0.00	FL	37	S2680	
B&W BOB	32	53	001	25	1.22	M 2	0	AV2	+ 0.00	FL	15	S2680	
B&W BOB	33	16	001	30	0.80	1	119	TSH	+ 1.00	FL	36	S2680	
B&W BOB	33	39	001	32	1.20	M2	137	1H	+ 0.00	FL	37	M3921	

Plant: Beaver Valley Unit 1 Steam Generator: B
Stage: 9/89 RES

QUERY: BOBBIN INDICATIONS 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	33	79	001	25	1.40	M1	136	1C	+	0.00	FL	15	S2680	
B&W BOB	34	46	001	28	1.50	M4	0	AV1	-	1.70	FL	36	S2680	WEAR
B&W BOB			001	28	1.60	M4	0	AV2	+	1.60	FL	36	S2680	WEAR
B&W BOB			001	31	1.70	M4	0	AV3	+	0.00	FL	36	S4373	WEAR
B&W BOB	34	77	001	33	0.80	M3	122	2C	+	0.20	FL	14	S2680	
B&W BOB			001	26	2.10	M3	126	1C	+	0.10	FL	14	HB259	
B&W BOB	34	78	001	36	2.00	M3	124	1C	+	0.20	FL	14	HB259	
B&W BOB	35	17	001	23	1.20	M3	132	1C	-	0.20	FL	35	K3921	
B&W BOB	35	31	001	38	1.60	M2	122	1H	-	0.40	FL	35	S2680	
B&W BOB	35	75	001	30	2.30	M3	131	2C	+	0.00	FL	14	HB259	
B&W BOB	36	26	001	23	1.00	M4	0	AV3	+	0.00	FL	35	S2680	WAR
B&W BOB	36	73	001	39	0.90	M1	115	1C	-	0.10	FL	13	S2680	
B&W BOB	36	74	001	31	3.10	M3	125	2C	-	0.10	FL	13	HB259	
B&W BOB			001	39	1.30	M3	117	1C	-	0.10	FL	13	HB259	
B&W BOB	37	59	001	24	1.20	M4	0	AV1	+	0.00	FL	13	S2680	WEAR
B&W BOB			001	30	1.60	M2	0	AV2	+	0.00	FL	13	S2680	WEAR
B&W BOB	37	62	001	26	1.40	M4	0	AV3	+	0.00	FL	13	K3921	WEAR
B&W BOB	38	24	001	30	2.50	M2	142	1H	+	0.20	FL	34	HB259	
B&W BOB	38	72	001	25	1.45	M 1	133	2C	+	0.13	FL	12	K3921	
B&W BOB	39	29	001	28	1.90	M4	0	AV2	+	30.80	FL	32	S2680	WEAR
B&W BOB	39	61	001	25	1.36	M 2	0	AV3	+	0.00	FL	12	K3921	
B&W BOB	39	72	001	27	2.37	M 1	131	2C	+	0.22	FL	12	K3921	
B&W BOB	40	25	001	28	1.80	M3	127	2C	-	0.10	FL	32	S2680	
B&W BOB			001	29	2.50	1	147	1C	-	0.10	FL	32	S2680	
B&W BOB	40	33	001	30	1.70	M4	0	AV3	+	4.70	FL	32	S2680	
B&W BOB	40	69	001	30	5.70	M3	124	2C	-	0.10	FL	11	L1107	
B&W BOB	40	70	001	27	1.70	M3	128	2C	-	0.20	FL	11	L1107	
B&W BOB	41	30	001	32	1.70	M3	123	2C	+	0.20	FL	32	HB259	
B&W BOB	41	43	001	21	0.90	M4	0	AV2	+	0.00	F	32	S2680	
B&W BOB	42	28	001	23	1.70	M3	153	2C	+	0.20	FL	32	HB259	
B&W BOB	42	36	001	27	0.70	M3	114	1C	+	0.00	FL	61	S2680	
B&W BOB	42	66	001	22	1.80	M3	133	1C	+	0.00	FL	10	L1107	
B&W BOB			001	29	1.10	M3	126	1C	-	0.30	FL	10	L1107	
B&W BOB	43	30	001	22	1.10	M3	131	2C	+	0.10	FL	30	S2680	
B&W BOB	43	33	001	21	1.70	M3	150	2C	+	0.10	FL	30	S2680	
B&W BOB			001	29	0.90	M3	141	1C	+	0.20	FL	30	S2680	
B&W BOB	43	55	001	30	1.90	M3	124	1C	+	0.00	FL	10	L1107	
B&W BOB	43	60	001	27	1.70	M3	128	2C	-	0.20	FL	10	L1107	
B&W BOB	43	65	001	28	1.80	M3	126	2C	+	0.10	FL	10	L1107	
B&W BOB	44	35	001	25	2.50	M3	129	2C	-	0.10	FL	30	S2680	
B&W BOB	44	36	001	27	1.50	M3	127	2C	+	0.20	FL	30	K3921	
B&W BOB	44	49	001	20	1.00	M1	133	1C	+	0.00	FL	10	S2680	
B&W BOB	44	53	001	29	1.70	M3	125	1C	+	0.00	FL	10	L1107	
B&W BOB	44	55	001	28	1.50	M3	127	2C	-	0.10	FL	10	L1107	
B&W BOB	45	36	001	30	2.30	M3	124	2C	+	0.10	FL	30	K3921	
B&W BOB	45	37	001	28	2.50	M3	128	2C	+	0.00	FL	30	S2680	
B&W BOB	45	39	001	23	2.40	M3	148	2C	-	0.10	FL	30	K3921	
B&W BOB	45	42	001	23	2.40	M3	148	2C	-	0.20	FL	30	S2680	
B&W BOB	45	43	001	21	0.90	M3	124	1C	+	0.10	FL	30	S2680	
B&W BOB	45	44	001	23	0.90	M3	138	1C	-	0.10	FL	30	S2680	
B&W BOB	45	50	001	24	1.50	M3	132	1C	+	0.00	FL	10	L1107	
B&W BOB	45	51	001	26	1.90	M3	129	1C	+	0.00	FL	10	L1107	
B&W BOB	45	54	001	24	0.40	1	149	TSH	+	10.20	FL	10	S2680	
B&W BOB	45	55	001	24	1.80	M1	128	TSH	+	2.80	FL	10	S2680	
B&W BOB	45	59	001	32	2.10	M3	122	2C	-	0.20	FL	10	L1107	
B&W BOB	46	44	001	31	0.90	M3	130	1C	-	0.10	FL	28	S2680	
B&W BOB	46	45	001	23	1.30	M3	134	2C	+	0.00	FL	28	N0942	
B&W BOB	46	46	001	31	1.30	M3	126	1C	+	0.00	FL	28	N0942	

TOTAL TUBES FOUND = 115
TOTAL INDICATIONS FOUND = 128
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: BOBBIN INDICATIONS < 20% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	5	8	DDI	19	2.00	1	162	TSH	+ 4.50	FL	9	K3921	
B&W BOB	5	94	DDI	9	1.70	M3	156	2C	- 0.10	FL	60	S2680	
B&W BOB	8	2	DDI	11	0.68	M1	146	2C	+ 0.00	FL	9	S2680	
B&W BOB	9	50	DDI	13	0.50	1	165	1H	+ 7.41	FL	5	S2680	DDI
B&W BOB	12	92	DDI	9	2.00	M3	139	1C	- 0.10	FL	56	S2680	
B&W BOB	13	90	DDI	15	1.20	M3	143	2C	+ 0.20	FL	56	S2680	
B&W BOB	15	3	DDI	15	0.90	M1	138	1C	+ 0.00	FL	8	H8259	
B&W BOB	15	6	DDI	14	1.40	M1	139	1C	+ 0.09	FL	8	S2680	
B&W BOB	15	55	DDI	16	0.35	1	160	1H	+ 48.20	FL	3	L1107	
B&W BOB	16	34	DDI	12	0.70	M1	120	TSH	+ 0.70	FL	52	S2680	
B&W BOB	22	86	DDI	16	0.80	M3	136	2C	+ 0.00	FL	54	S4373	
B&W BOB	25	10	DDI	17	0.69	M1	134	1C	- 0.06	FL	7	S2680	
B&W BOB	27	84	DDI	11	1.30	M3	140	1C	+ 0.00	FL	54	S2680	
B&W BOB	27	85	DDI	11	1.10	M3	147	1C	+ 0.00	FL	54	S2680	
B&W BOB	28	82	DDI	9	0.80	M3	135	1C	+ 0.00	FL	17	S2680	
B&W BOB	29	12	DDI	5	1.00	M3	140	1C	- 0.20	FL	38	S2680	
B&W BOB	29	14	DDI	12	1.70	M3	127	1C	- 0.10	FL	38	S2680	
B&W BOB	30	82	DDI	11	1.70	1	158	1C	- 0.10	FL	16	S2680	
B&W BOB	31	17	DDI	13	1.30	M3	150	1C	- 0.10	FL	37	S2680	
B&W BOB	32	78	DDI	15	1.40	M3	140	1C	- 0.10	FL	1	S2680	
B&W BOB	36	21	DDI	17	0.90	M3	143	2C	- 0.20	FL	35	K3921	
B&W BOB	36	68	DDI	19	0.50	1	104	4C	- 16.00	FL	13	H8259	
B&W BOB	37	21	DDI	16	1.10	M3	150	2C	- 0.20	FL	34	S2680	
B&W BOB	37	22	DDI	9	1.10	M3	136	2C	- 0.20	FL	34	S2680	
B&W BOB	37	62	DDI	14	0.50	M4	0	7H	+ 31.70	FL	12	S2680	WEAR
B&W BOB	37	74	DDI	18	1.30	M3	117	2C	+ 0.20	FL	13	S2680	
B&W BOB	38	21	DDI	9	0.60	M3	147	2C	+ 0.00	FL	34	S2680	
B&W BOB	39	25	DDI	13	1.30	M3	149	2C	- 0.10	FL	32	S2680	
B&W BOB	40	66	DDI	10	0.90	M1	137	2C	+ 0.10	FL	11	S2680	
B&W BOB	42	60	DDI	10	1.30	M1	137	2C	- 0.20	FL	11	S2680	
B&W BOB	43	32	DDI	10	1.00	M3	143	1C	+ 0.00	FL	30	S2680	
B&W BOB	43	34	DDI	14	1.00	M3	141	2C	+ 0.10	FL	30	S2680	
B&W BOB			DDI	19	0.80	M3	135	1C	+ 0.00	FL	30	S2680	
B&W BOB	43	35	DDI	18	1.80	M3	121	2C	+ 0.10	FL	30	S2680	
B&W BOB	43	59	DDI	8	1.40	M3	138	1C	- 0.20	FL	10	S2680	
B&W BOB	44	33	DDI	16	1.00	M3	145	2C	+ 0.20	FL	30	S2680	
B&W BOB			DDI	12	1.10	M3	135	1C	+ 0.10	FL	30	S2680	
B&W BOB	44	38	DDI	18	2.00	1	151	2C	- 0.10	FL	30	K3921	
B&W BOB	44	39	DDI	19	0.60	M3	143	2C	+ 0.00	FL	30	S2680	
B&W BOB	44	43	DDI	14	0.80	M3	148	2C	- 0.10	FL	30	S2680	
B&W BOB	44	50	DDI	15	0.90	M1	136	2C	- 0.20	FL	10	S2680	
B&W BOB	44	62	DDI	14	1.20	M1	137	2C	- 0.10	FL	10	L1107	
B&W BOB	45	38	DDI	15	1.00	M3	136	2C	+ 0.20	FL	30	S2680	
B&W BOB	45	42	DDI	16	0.80	M3	142	1C	- 0.20	FL	30	S2680	
B&W BOB	45	49	DDI	15	1.10	M3	138	1C	- 0.10	FL	10	S2680	
B&W BOB	45	54	DDI	19	0.70	1	142	TSH	+ 11.00	FL	10	S2680	
B&W BOB	45	55	DDI	18	0.90	M1	134	2C	- 0.20	FL	10	S2680	
B&W BOB	45	56	DDI	9	1.10	M1	140	2C	- 0.10	FL	10	S2680	

TOTAL TUBES FOUND = 46
TOTAL INDICATIONS FOUND = 48
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Stage: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	1	2	DSI		1.70	M2	127	1H	+	0.20	7H	43	S2680	OD1
B&W BOB	1	5	DSI		0.90	M2	114	1H	+	0.20	7H	43	H8259	
B&W BOB	1	26	DSI		1.40	M3	132	1H	-	0.10	7H	29	L1107	
B&W BOB	1	43	DSI		0.90	M3	140	1H	+	0.20	7H	29	L1107	
B&W BOB	1	50	DSI		1.10	M2	121	2H	+	0.10	7H	43	H8259	
B&W BOB	1	51	DSI		1.10	M2	120	1H	+	0.10	7H	43	S2680	OD1
B&W BOB	2	1	DSI		0.60	M2	136	3H	+	0.10	7H	43	H8259	
B&W BOB			DSI		0.70	M2	120	1H	+	0.10	7H	43	H8259	
B&W BOB	2	2	DSI		0.70	M2	116	2H	+	0.00	7H	43	H8259	
B&W BOB	2	3	DSI		0.60	M2	136	3H	+	0.00	7H	43	H8259	
B&W BOB			DSI		1.50	M2	141	2H	-	0.10	7H	43	H8259	
B&W BOB			DSI		2.20	M2	137	1H	-	0.10	7H	43	H8259	
B&W BOB	2	4	DSI		1.70	M2	118	1H	+	0.00	7H	43	S2680	
B&W BOB			DSI		0.90	M2	124	3H	+	0.20	7H	43	S2680	
B&W BOB	2	6	DSI		0.60	M2	139	5H	+	0.00	7H	43	S2680	
B&W BOB			DSI		2.10	M2	131	2H	+	0.10	7H	43	S2680	
B&W BOB			DSI		1.60	M2	124	1H	+	0.10	7H	43	S2680	
B&W BOB	2	37	DSI		0.60	M3	119	4H	+	0.00	7H	29	L1107	
B&W BOB			DSI		1.30	M3	111	2H	+	0.20	7H	29	S2680	
B&W BOB	2	50	DSI		0.90	M2	124	1H	+	0.10	7H	43	H8259	
B&W BOB	2	54	DSI		1.30	M2	129	1H	+	0.10	7H	43	S2680	OD1
B&W BOB	2	55	DSI		0.60	M2	121	3H	+	0.20	7H	43	H8259	
B&W BOB			DSI		1.40	M2	117	2H	+	0.10	7H	43	S2680	
B&W BOB	2	86	DSI		0.70	M3	131	4H	+	0.40	7H	31	S2680	
B&W BOB			DSI		0.80	M3	111	3H	+	0.40	7H	31	N0942	
B&W BOB	3	1	DSI		0.90	M2	68	1H	+	0.10	7C	40	L1107	
B&W BOB	3	3	DSI		0.90	M2	100	1H	+	0.20	7C	40	L1107	
B&W BOB	3	4	DSI		1.20	M2	85	1H	+	0.20	7C	40	S2680	OD1
B&W BOB	3	8	DSI		1.00	M2	111	2H	+	0.10	7C	40	L1107	
B&W BOB	3	10	DSI		1.10	M2	101	2H	+	0.10	7C	40	L1107	
B&W BOB	3	13	DSI		0.70	M2	107	2H	+	0.00	7C	40	L1107	
B&W BOB			DSI		0.80	M3	109	2H	+	0.20	7H	31	N0942	OD1
B&W BOB	3	14	DSI		1.10	M2	108	2H	+	0.00	7C	40	L1107	
B&W BOB			DSI		1.80	M2	119	1H	-	0.20	7C	40	S2680	OD1
B&W BOB			DSI		1.40	M3	115	2K	+	0.10	7H	31	S2680	
B&W BOB	3	15	DSI		0.80	M2	102	1H	+	0.10	7C	40	S2680	OD1
B&W BOB	3	17	DSI		1.00	M2	112	2H	+	0.10	7C	40	L1107	
B&W BOB	3	22	DSI		0.80	M2	107	1H	+	0.00	7C	40	L1107	
B&W BOB			DSI		0.60	M3	115	1H	+	0.10	7H	31	S2680	OD1
B&W BOB	3	25	DSI		1.00	M2	102	1H	+	0.20	7C	40	L1107	
B&W BOB			DSI		1.10	M3	109	1H	+	0.20	7H	31	N0942	
B&W BOB	3	30	DSI		1.00	M2	116	1H	+	0.00	7C	40	L1107	
B&W BOB			DSI		1.00	M3	117	1H	+	0.20	7H	31	S2680	
B&W BOB	3	33	DSI		0.80	M2	118	2H	+	0.00	7C	40	L1107	
B&W BOB			DSI		0.90	M2	118	1H	+	0.00	7C	40	L1107	
B&W BOB	3	36	DSI		1.40	M2	129	2H	+	0.10	7C	40	L1107	
B&W BOB			DSI		1.00	M2	123	1H	+	0.00	7C	40	L1107	
B&W BOB	3	48	DSI		0.70	M2	104	1H	+	0.10	7C	40	L1107	
B&W BOB	3	53	DSI		0.70	M2	110	1H	+	0.10	7C	40	L1107	
B&W BOB	3	59	DSI		0.90	M2	116	1H	+	0.00	7C	40	L1107	
B&W BOB	3	64	DSI		0.90	M2	110	3H	+	0.10	7C	40	L1107	
B&W BOB			DSI		1.10	M3	112	3H	+	0.30	7H	31	N0942	
B&W BOB	3	73	DSI		0.60	M2	98	3H	+	0.00	7C	40	S2680	
B&W BOB	3	75	DSI		1.60	M2	128	3H	+	0.20	7C	40	L1107	
B&W BOB			DSI		2.10	M3	118	3H	+	0.40	7H	31	N0942	
B&W BOB	4	2	DSI		1.50	M2	106	4H	-	0.10	FL	9	S2680	OD1
B&W BOB	4	4	DSI		0.90	M2	120	3H	-	0.10	FL	9	S2680	
B&W BOB	4	7	DSI		0.80	M2	115	1H	+	0.00	FL	9	S2680	
B&W BOB	4	11	DSI		1.20	M2	113	1H	+	0.40	FL	47	S2680	
B&W BOB	4	17	DSI		0.60	M2	111	2H	+	0.20	FL	47	H3921	
B&W BOB	4	18	DSI		0.90	M2	133	2H	+	0.10	FL	47	H3921	
B&W BOB			DSI		0.80	M2	107	1H	+	0.20	FL	47	H3921	
B&W BOB	4	47	DSI		1.00	M2	104	1H	-	0.30	FL	60	S2680	
B&W BOB	4	48	DSI		0.70	M2	101	1H	-	0.30	FL	60	S4373	
B&W BOB	4	70	DSI		0.60	M2	115	1H	-	0.10	FL	28	S2680	
B&W BOB	4	76	DSI		1.30	M2	82	1H	-	0.10	FL	28	L1107	
B&W BOB	5	11	DSI		0.70	M2	68	1H	+	0.40	FL	47	S2680	
B&W BOB	5	19	DSI		0.90	M2	92	1H	-	0.10	FL	63	H3921	
B&W BOB			DSI		1.00	M2	127	2H	-	0.10	FL	63	H3921	
B&W BOB			DSI		0.70	M2	83	3H	-	0.10	FL	63	H3921	

Plant: Beaver Valley Unit 1 Steam Generator: B
(Stage) 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	5	36	DSI		1.30	M2	131	3H	-	0.10	FL	55	L1107	
B&W BOB			DSI		0.60	M2	125	2H	+	0.00	FL	55	S2680	
B&W BOB			DSI		0.70	M2	120	1H	+	0.00	FL	55	L1107	
B&W BOB	5	58	DSI		1.70	M2	85	1H	-	0.30	FL	6	NB259	
B&W BOB	5	59	DSI		0.70	M1	110	1H	-	0.06	FL	6	S2680	
B&W BOB	5	69	DSI		1.50	M2	96	1H	-	0.10	FL	28	L1107	
B&W BOB	6	11	DSI		0.60		135	1H	+	0.00	FL	47	S2680	
B&W BOB	6	12	DSI		1.20	M2	81	1H	+	0.40	FL	47	S2680	
B&W BOB	6	18	DSI		1.50	M2	119	2H	+	0.30	FL	47	K3921	
B&W BOB			DSI		1.40	M2	120	1H	+	0.40	FL	47	K3921	
B&W BOB	6	27	DSI		1.20	M2	118	2H	+	0.40	FL	47	K3921	
B&W BOB	6	38	DSI		0.70	M2	77	1H	-	0.40	FL	60	S4373	
B&W BOB	6	45	DSI		0.70	M2	124	1H	-	0.40	FL	60	S4373	
B&W BOB	7	7	DSI		1.10	M2	115	1H	-	0.10	FL	9	K3921	
B&W BOB			DSI		0.70	M2	113	2H	-	0.20	FL	9	K3921	
B&W BOB	7	14	DSI		0.80	M2	179	2H	+	0.00	FL	47	K3921	
B&W BOB	7	16	DSI		1.00	M2	96	1H	+	0.40	FL	47	S2680	
B&W BOB	7	19	DSI		1.00	M2	105	1H	+	0.40	FL	47	S2680	
B&W BOB	7	22	DSI		0.90	M2	131	1H	+	0.30	FL	44	L1107	
B&W BOB	7	25	DSI		0.70	M2	116	1H	+	0.00	FL	44	S2680	
B&W BOB	7	27	DSI		0.70	M2	120	1H	-	0.10	FL	44	L1107	
B&W BOB	7	39	DSI		1.00	M2	93	1H	+	0.00	FL	60	S2680	
B&W BOB			DSI		0.80	M2	77	3H	+	0.00	FL	60	S2680	
B&W BOB	7	43	DSI		1.70	M2	108	1H	-	0.30	FL	60	S2680	
B&W BOB			DSI		0.70	M2	115	3H	+	0.00	FL	60	S4373	
B&W BOB	7	59	DSI		1.10	M2	116	1H	-	0.40	FL	5	N0942	
B&W BOB	7	64	DSI		0.70	M2	77	1H	+	0.00	FL	27	L1107	
B&W BOB	7	69	DSI		0.70	M2	76	1H	-	0.10	FL	27	L1107	
B&W BOB	7	74	DSI		0.90	M2	115	1H	-	0.10	FL	27	L1107	
B&W BOB	8	37	DSI		0.80	M2	149	1H	-	0.10	FL	58	NB259	
B&W BOB	8	38	DSI		0.80	M2	128	1H	-	0.10	FL	58	NB259	
B&W BOB	9	8	DSI		0.80	M2	111	1H	-	0.30	FL	8	L1107	
B&W BOB	9	31	DSI		0.80	M2	131	1H	+	0.00	FL	44	L1107	
B&W BOB	9	52	DSI		1.00	M2	121	1H	-	0.40	FL	5	N0942	
B&W BOB	9	53	DSI		0.70	M2	138	1H	-	0.40	FL	5	N0942	
B&W BOB	9	59	DSI		0.60	M2	120	1H	-	0.40	FL	5	N0942	
B&W BOB	9	71	DSI		0.90	M2	104	1H	-	0.10	FL	26	K3921	
B&W BOB			DSI		0.70	M2	117	2H	-	0.20	FL	26	S2680	
B&W BOB	9	75	DSI		0.80	M2	135	1H	-	0.40	FL	26	S2680	001
B&W BOB	9	77	DSI		1.80	M2	93	1H	-	0.20	FL	63	K3921	
B&W BOB			DSI		0.60	M2	81	2H	+	0.00	FL	63	S2680	
B&W BOB	9	78	DSI		1.60	M2	101	1H	-	0.30	FL	27	L1107	
B&W BOB	9	80	DSI		0.60	M2	115	1H	+	0.00	FL	27	L1107	
B&W BOB	10	13	DSI		0.70	M2	122	1H	+	0.10	FL	43	NB259	
B&W BOB	10	73	DSI		0.90	M2	111	2H	-	0.10	FL	26	K3921	
B&W BOB	10	93	DSI		0.80	M2	132	1H	+	0.00	FL	56	S2680	
B&W BOB	11	11	DSI		0.70	M	115	2H	+	0.00	FL	43	S2680	
B&W BOB	11	13	DSI		0.70	M	73	1H	+	0.00	FL	43	S2680	
B&W BOB	11	20	DSI		0.80	M2	112	1H	+	0.10	FL	43	NB259	
B&W BOB	11	23	DSI		0.80	M2	121	1H	+	0.00	FL	43	NB259	
B&W BOB	11	26	DSI		0.60	M2	106	2H	+	0.10	FL	43	S2680	
B&W BOB	11	30	DSI		1.70	M2	122	2H	+	0.00	FL	43	NB259	
B&W BOB	11	85	DSI		1.40	M2	95	2H	+	0.00	FL	53	S2680	
B&W BOB	12	8	DSI		0.60	M2	101	1H	-	0.30	FL	8	NB259	
B&W BOB	12	13	DSI		0.80	M2	148	3H	+	0.10	FL	43	NB259	
B&W BOB	12	14	DSI		1.70	M2	132	2H	+	0.00	FL	43	S2680	
B&W BOB	12	16	DSI		1.70	M2	129	2H	+	0.10	FL	43	S2680	
B&W BOB			DSI		0.80	M2	127	1H	+	0.10	FL	43	NB259	
B&W BOB	12	17	DSI		0.90	M2	153	3H	+	0.20	FL	43	NB259	
B&W BOB	12	22	DSI		0.80	M2	143	1H	+	0.00	FL	43	NB259	
B&W BOB	12	23	DSI		1.30	M2	125	1H	+	0.10	FL	43	NB259	
B&W BOB	12	40	DSI		0.80	M2	126	1H	+	0.00	FL	58	NB259	
B&W BOB	12	73	DSI		1.40	M2	114	1H	-	0.20	FL	25	S2680	001
B&W BOB			DSI		1.20	M2	120	2H	-	0.20	FL	25	S2680	
B&W BOB	13	26	DSI		0.80	M2	87	1H	+	0.10	FL	50	K3921	
B&W BOB	13	27	DSI		0.60	M2	125	2H	+	0.00	FL	50	S2680	
B&W BOB	13	40	DSI		0.60	M2	122	1H	-	0.10	FL	58	S2680	
B&W BOB	13	92	DSI		1.40	M2	135	1H	+	0.40	FL	56	S4373	
B&W BOB	14	65	DSI		0.50	M2	129	1H	-	0.20	FL	25	NB259	
B&W BOB	14	79	DSI		1.00	M2	98	1H	-	0.20	FL	25	S2680	001

Plant: Beaver Valley Unit 1 Steam Generator: B
Outage: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	15	16	DSI		0.80	M2	94	1H	+	0.10	FL	50	H3921	
B&W BOB	15	26	DSI		0.90	M2	101	1H	+	0.00	FL	50	S2680	
B&W BOB	15	30	DSI		0.60	M2	140	1H	+	0.30	FL	50	S2680	
B&W BOB	16	12	DSI		0.70		126	2H	+	0.00	FL	52	S2680	
B&W BOB			DSI		0.60		109	3H	+	0.00	FL	52	S2680	
B&W BOB	16	27	DSI		1.20	M2	92	1H	+	0.10	FL	52	L1107	
B&W BOB	16	37	DSI		1.00	M2	109	1H	-	0.30	FL	54	S4373	
B&W BOB	16	48	DSI		0.70	M2	108	1H	+	0.00	FL	54	S2680	
B&W BOB	16	50	DSI		1.40	M2	97	1H	-	0.10	FL	3	L1107	
B&W BOB	16	59	DSI		0.70	M2	114	1H	-	0.10	FL	3	L1107	
B&W BOB	17	11	DSI		1.00	M2	99	1H	-	0.40	FL	51	S2680	
B&W BOB	17	12	DSI		0.60	M2	101	1H	-	0.40	FL	51	S4373	
B&W BOB	17	14	DSI		0.70	M2	106	1H	-	0.40	FL	51	S4373	
B&W BOB	17	34	DSI		0.60	M2	121	3H	+	0.00	FL	52	L1107	
B&W BOB	17	39	DSI		0.80	M2	126	1H	+	0.20	FL	52	L1107	
B&W BOB	17	44	DSI		0.70	M2	109	1H	+	0.10	FL	52	L1107	
B&W BOB	17	53	DSI		1.00	M2	118	2H	-	0.20	FL	23	S2680	
B&W BOB	17	59	DSI		0.80	M2	118	1H	-	0.10	FL	24	S2680	
B&W BOB	17	65	DSI		0.80	M2	99	1H	-	0.20	FL	24	S2680	
B&W BOB	18	29	DSI		0.60	M2	113	1H	-	0.10	FL	49	H3921	
B&W BOB	18	32	DSI		0.60	M2	98	1H	+	0.00	FL	49	H3921	
B&W BOB	18	47	DSI		1.00	M2	121	1H	-	0.10	FL	49	H3921	
B&W BOB	18	48	DSI		1.10	M2	109	1H	-	0.10	FL	23	S2680	
B&W BOB	18	57	DSI		1.00	M2	126	2H	-	0.10	FL	23	H8259	
B&W BOB	18	62	DSI		0.40	M2	116	1H	-	0.20	FL	23	S2680	
B&W BOB	18	66	DSI		1.40	M2	106	1H	-	0.10	FL	23	S2680	
B&W BOB	19	18	DSI		0.80	M2	109	1H	-	0.10	FL	48	L1107	
B&W BOB	19	21	DSI		0.90	M2	138	1H	-	0.10	FL	48	L1107	
B&W BOB			DSI		0.80	M2	145	3H	-	0.10	FL	48	L1107	
B&W BOB	19	39	DSI		1.40	M2	142	1H	+	0.10	FL	49	H3921	
B&W BOB	19	56	DSI		0.70	M2	151	2H	-	0.10	FL	22	H8259	
B&W BOB	20	11	DSI		0.80	M2	121	1H	+	0.00	FL	48	L1107	
B&W BOB	20	24	DSI		1.40	M2	109	1H	-	0.20	FL	48	L1107	
B&W BOB			DSI		0.60	M2	102	2H	-	0.10	FL	48	L1107	
B&W BOB	20	26	DSI		0.70	M2	75	1H	+	0.00	FL	48	S2680	
B&W BOB	20	41	DSI		0.90	M2	167	1H	-	0.10	FL	48	L1107	
B&W BOB	20	58	DSI		0.90	1	119	1H	-	0.20	FL	22	S2680	001
B&W BOB	21	29	DSI		0.60	M2	135	1H	-	0.10	FL	48	L1107	
B&W BOB	21	59	DSI		0.70	M2	104	1H	-	0.40	FL	51	S4373	
B&W BOB			DSI		0.80	M2	125	3H	-	0.30	FL	51	S4373	
B&W BOB	21	75	DSI		1.10	M2	112	1H	-	0.20	FL	22	L1107	
B&W BOB	22	22	DSI		0.65	M2	113	1H	-	0.50	FL	45	S2680	
B&W BOB	22	23	DSI		1.00	M2	104	1H	-	0.10	FL	45	S4373	
B&W BOB	22	34	DSI		2.00	M2	118	1H	+	0.00	FL	61	S2680	
B&W BOB	22	75	DSI		1.00	M2	110	1H	+	0.00	FL	21	H3921	
B&W BOB	23	66	DSI		0.60	M2	107	1H	-	0.10	FL	20	S2680	001
B&W BOB	23	68	DSI		1.10	M2	153	3H	-	0.20	FL	20	H8259	
B&W BOB	24	17	DSI		1.10	1	134	1H	+	0.30	FL	46	N0942	
B&W BOB	24	36	DSI		0.70	M3	137	1H	-	0.20	FL	46	N0942	
B&W BOB	24	40	DSI		0.60	M3	130	1H	+	0.30	FL	46	N0942	
B&W BOB	24	53	DSI		0.60	M2	104	1H	+	0.00	FL	51	S2680	
B&W BOB	25	22	DSI		0.70	M2	120	1H	-	0.10	FL	42	L1107	
B&W BOB	29	12	DSI		0.70	M2	132	1H	-	0.20	FL	38	S2680	
B&W BOB	30	13	DSI		0.80	M2	125	1H	-	0.10	FL	38	S2680	
B&W BOB	30	35	DSI		0.80	M2	100	1H	-	0.30	FL	38	S2680	
B&W BOB	31	34	DSI		0.60	M2	142	1H	+	0.10	FL	38	S2680	
B&W BOB	31	36	DSI		1.50	M2	114	1H	-	0.10	FL	38	H3921	
B&W BOB	31	73	DSI		0.80	M2	98	1H	+	0.00	FL	16	S2680	
B&W BOB	33	18	DSI		1.00	M3	124	1H	+	0.00	FL	36	S2680	
B&W BOB	33	35	DSI		0.70	M2	104	1H	-	0.40	FL	36	S4373	
B&W BOB	33	46	DSI		0.80	1	153	1H	-	0.10	FL	37	H3921	
B&W BOB	34	37	DSI		0.90	M2	137	2H	-	0.20	FL	36	S4373	
B&W BOB	34	39	DSI		1.10	M2	111	2H	-	0.10	FL	36	S2680	
B&W BOB	35	19	DSI		1.10	M2	150	1H	+	0.20	FL	35	S2680	
B&W BOB	35	31	DSI		1.50	M2	111	3H	+	0.00	FL	35	S2680	
B&W BOB	35	33	DSI		1.20	M2	113	1H	-	0.40	FL	35	S2680	
B&W BOB	35	62	DSI		1.50	M2	141	1H	+	0.00	FL	14	H8259	
B&W BOB	36	21	DSI		1.10	M2	110	1H	+	0.30	FL	35	S2680	
B&W BOB	38	31	DSI		0.70	M2	119	1H	-	0.10	FL	34	H8259	
B&W BOB	43	32	DSI		0.70	M3	133	1H	+	0.10	FL	30	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: B
Outage: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	43	38	DSI		0.80	M2	120	1H	+ 0.30	FL	30	S2680	
B&W BOB	44	35	DSI		0.60	M1	125	1H	+ 0.20	FL	30	S2680	
B&W BOB	44	49	DSI		1.90	M2	153	1H	- 0.20	FL	10	L1107	
B&W BOB	44	62	DSI		0.80	M3	142	1H	+ 0.00	FL	10	L1107	
B&W BOB	45	39	DSI		1.00	M2	133	1H	+ 0.00	FL	30	M3921	

TOTAL TUBES FOUND = 179
TOTAL INDICATIONS FOUND = 215
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
Outage: 9/89 RES

QUERY: BOBBIN INDICATIONS >= 40% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	1	3	ODI	50	2.50	1	120	TSH	+ 17.00	7H	44	HB259	
B&W BOB	3	1	ODI	46	3.50	M2	111	1H	- 0.30	FL	53	HB259	
B&W BOB	3	2	ODI	53	1.20	M2	97	1H	+ 0.20	FL	58	HB259	
B&W BOB	4	51	ODI	43	2.50	M2	104	1H	+ 0.00	FL	52	N0942	
B&W BOB	4	53	ODI	42	2.00	M2	105	1H	+ 0.00	FL	52	N0942	
B&W BOB	5	2	ODI	57	1.60	M2	100	1H	- 0.20	FL	53	HB259	
B&W BOB	14	3	ODI	50	1.10	M2	98	1H	- 0.10	FL	55	HB259	
B&W BOB	15	6	ODI	51	1.30	M2	97	1H	- 0.10	FL	54	HB259	
B&W BOB	15	59	ODI	51	1.00	M2	99	1H	- 0.40	FL	50	S4373	
B&W BOB	15	70	ODI	43	1.70	M1	102	1H	+ 0.00	FL	37	S2680	
B&W BOB	21	21	ODI	49	5.30	M2	104	1H	- 0.10	FL	42	HB259	
B&W BOB	26	10	ODI	40	3.00	M3	112	1C	+ 0.00	FL	54	HB259	
B&W BOB	28	15	ODI	42	2.70	M2	107	1H	- 0.10	FL	39	H3921	
B&W BOB	34	53	ODI	41	3.30	M4	0	AV3	+ 0.00	FL	20	S2680	
B&W BOB	42	66	ODI	40	1.30	M3	110	1C	- 0.20	FL	16	HB259	

TOTAL TUBES FOUND = 15
TOTAL INDICATIONS FOUND = 15
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
tage: 9/89 RES

QUERY: BOBBIN INDICATIONS 20 TO 59% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	1	1	001	35	1.40	1	145	TSH	+	17.50	7H	44	S2680	
B&W BOB	1	2	001	38	1.10	1	133	TSH	+	17.50	7H	44	S2680	
B&W BOB	1	4	001	32	2.30	1	140	TSH	+	17.00	7H	44	S2680	5
B&W BOB	6	92	001	24	0.80	M3	132	1C	-	0.20	FL	22	H8259	
B&W BOB	7	13	001	26	1.00	M2	122	1H	-	0.10	FL	24	S2680	
B&W BOB	7	25	001	39	2.30	M2	116	1H	-	0.10	FL	29	L1107	
B&W BOB	16	4	001	20	1.10	M3	130	2C	+	0.10	FL	54	H8259	
B&W BOB	17	5	001	24	0.70	M3	127	2C	+	0.10	FL	54	H8259	
B&W BOB			001	27	0.70	M3	124	1C	+	0.10	FL	54	H8259	
B&W BOB	23	43	001	30	4.10	M2	117	1H	-	0.10	FL	42	H8259	
B&W BOB	25	84	001	34	2.00	M3	123	1C	-	0.10	FL	8	L1107	
B&W BOB	25	86	001	25	3.20	M3	126	1C	-	0.10	FL	8	N0942	
B&W BOB	27	26	001	26	1.30	M2	0	AV2	+	0.00	FL	39	S2680	
B&W BOB	27	83	001	31	2.90	M3	127	1C	-	0.10	FL	31	L1107	
B&W BOB	28	29	001	30	2.30	M2	119	1H	+	0.20	FL	38	H3921	
B&W BOB	28	83	001	22	1.30	M1	128	1C	+	0.00	FL	28	S2680	
B&W BOB	29	46	001	21	0.90	M2	0	AV1	+	0.00	FL	38	S2680	
B&W BOB			001	29	1.60	M2	0	AV2	+	1.40	FL	38	S2680	
B&W BOB			001	21	1.00	M4	0	AV3	+	0.00	FL	38	S2680	
B&W BOB			001	26	1.30	M2	0	AV3	+	0.70	FL	38	S2680	
B&W BOB			001	23	1.10	M2	0	AV4	+	0.10	FL	38	S2680	
B&W BOB	29	50	001	35	1.70	M2	107	1H	-	0.10	FL	28	L1107	
B&W BOB	29	82	001	24	0.70	M1	126	2C	+	0.00	FL	28	S2680	
B&W BOB			001	31	3.10	M1	119	1C	+	0.00	FL	28	S2680	
B&W BOB	30	14	001	23	2.70	M3	129	2C	-	0.10	FL	15	N0942	
B&W BOB	30	29	001	31	1.40	M2	134	1H	-	0.10	FL	15	N0942	
B&W BOB	30	30	001	34	2.50	M2	131	1H	-	0.10	FL	15	L1107	
B&W BOB	30	81	001	31	1.10	M3	121	1C	+	0.00	FL	27	H3921	
B&W BOB	32	16	001	35	1.10	1	136	TSH	+	1.40	FL	14	S2680	
B&W BOB			001	32	1.10	1	114	1C	+	0.10	FL	14	S2680	
B&W BOB	33	16	001	39	4.00	M3	120	1C	-	0.10	FL	13	L1107	
B&W BOB	33	18	001	32	3.10	M3	127	1C	-	0.20	FL	13	L1107	
B&W BOB	34	23	001	29	1.90	M2	131	1H	-	0.10	FL	13	L1107	
B&W BOB			001	31	1.90	M2	129	2H	+	0.00	FL	13	L1107	
B&W BOB	34	53	001	24	1.20	M4	0	AV2	+	0.00	FL	20	S2680	
B&W BOB	34	77	001	27	1.50	M3	135	1C	-	0.10	FL	20	L1107	
B&W BOB	34	78	001	34	3.70	M3	128	1C	+	0.00	FL	20	L1107	
B&W BOB	35	77	001	35	2.60	M3	112	1C	-	0.10	FL	19	S2680	
B&W BOB	36	47	001	23	1.05	M4	0	AV2	+	0.00	FL	6	S2680	
B&W BOB	37	19	001	23	0.70	M3	134	1C	+	0.00	FL	5	S2680	
B&W BOB	37	35	001	33	2.90	M2	112	1H	-	0.10	FL	6	L1107	
B&W BOB	40	25	001	22	1.80	M3	128	1C	-	0.20	FL	4	S2680	
B&W BOB	40	52	001	21	1.30	M4	0	AV4	+	0.00	FL	17	S4373	WEAR
B&W BOB	41	27	001	20	1.60	M3	129	1C	+	0.00	FL	4	S2680	
B&W BOB	41	66	001	25	1.20	M3	123	1C	-	0.10	FL	16	H8259	
B&W BOB	42	28	001	23	0.70	M3	126	4C	+	0.00	FL	4	S2680	
B&W BOB	42	63	001	38	2.00	M3	115	1C	-	0.10	FL	16	N0942	
B&W BOB	43	30	001	33	0.50	M3	117	4C	+	0.00	FL	3	H8259	
B&W BOB	44	33	001	24	1.10	M3	125	3C	-	0.30	FL	29	H8259	
B&W BOB	44	47	001	24	2.10	M3	125	2C	-	0.20	FL	3	H8259	
B&W BOB	44	62	001	25	1.40	M3	127	1C	-	0.10	FL	15	N0942	

TOTAL TUBES FOUND = 43
TOTAL INDICATIONS FOUND = 51
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
Outage: 9/BV RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	1	46	DSI		0.90	M2	132	1H	+	0.20	7H	44	H8259	
B&W BOB	1	47	DSI		0.70	M2	151	1H	-	0.10	7H	44	H8259	
B&W BOB	2	1	DSI		0.80	M1	125	1H	+	0.00	7H	44	S2680	
B&W BOB	2	9	DSI		1.20	M2	103	1H	+	0.00	7H	44	S2680	
B&W BOB	2	16	DSI		0.90	M2	118	2H	+	0.20	7H	44	H8259	
B&W BOB	2	19	DSI		0.90	M2	129	1H	+	0.10	7H	44	H8259	
B&W BOB	2	24	DSI		0.80	M2	108	2H	+	0.10	7H	44	H8259	
B&W BOB			DSI		1.70	M2	99	1H	+	0.00	7H	44	S2680	
B&W BOB	2	25	DSI		0.90	M2	110	2H	+	0.10	7H	44	H8259	
B&W BOB			DSI		0.90	M2	123	1H	+	0.20	7H	44	H8259	
B&W BOB	2	47	DSI		0.80	M2	120	1H	+	0.10	7H	44	H8259	
B&W BOB	2	68	DSI		0.60	M2	110	2H	+	0.10	7H	44	H8259	
B&W BOB	2	70	DSI		0.60	M2	112	1H	+	0.10	7H	44	H8259	
B&W BOB	2	76	DSI		1.00	M2	108	2H	+	0.00	7H	44	H8259	
B&W BOB	3	1	DSI		0.80	M2	137	2H	-	0.10	FL	53	H8259	
B&W BOB	3	4	DSI		0.80	M2	105	2H	+	0.20	7C	58	S2680	
B&W BOB			DSI		0.70	M2	118	1H	-	0.10	7C	58	H8259	3-4
B&W BOB	3	6	DSI		0.80	M1	81	1H	+	0.00	7C	58	S2680	
B&W BOB	3	31	DSI		0.90	M2	110	1H	-	0.10	FL	30	H3921	
B&W BOB	3	34	DSI		0.80	M2	132	1H	-	0.10	FL	30	H3921	
B&W BOB	3	46	DSI		0.70	M2	87	2H	+	0.00	FL	22	H8259	
B&W BOB	3	55	DSI		0.80	M2	116	1H	-	0.10	FL	53	H8259	
B&W BOB	3	60	DSI		0.80	M2	114	1H	+	0.00	FL	53	H8259	
B&W BOB	3	68	DSI		0.90	M2	109	1H	-	0.20	FL	24	S4373	
B&W BOB	3	71	DSI		1.10	M2	101	1H	-	0.40	FL	24	S4373	
B&W BOB			DSI		2.10	M2	109	2H	-	0.30	FL	24	S4373	
B&W BOB	3	73	DSI		1.10	M2	105	2H	-	0.40	FL	24	S4373	
B&W BOB	3	78	DSI		0.70	M2	106	1H	-	0.10	FL	24	S4373	
B&W BOB	4	48	DSI		0.60	M2	111	1H	-	0.10	FL	22	H8259	
B&W BOB	4	52	DSI		1.10	M2	113	1H	-	0.20	FL	52	L1107	
B&W BOB	4	55	DSI		0.90	M2	111	1H	-	0.10	FL	52	L1107	
B&W BOB			DSI		0.90	M2	99	2H	-	0.10	FL	52	L1107	
B&W BOB	4	58	DSI		0.80	M2	107	1H	-	0.10	FL	52	L1107	
B&W BOB	4	59	DSI		0.70	M2	128	1H	-	0.10	FL	52	L1107	
B&W BOB	5	1	DSI		1.50	M1	102	1H	+	0.00	FL	53	S2680	
B&W BOB	5	2	DSI		0.80	M2	81	2H	-	0.10	FL	53	H8259	
B&W BOB	5	59	DSI		0.70	M2	116	1H	+	0.00	FL	52	L1107	
B&W BOB	5	63	DSI		0.90	M2	113	1H	-	0.10	FL	23	S4373	
B&W BOB	5	65	DSI		0.80	M2	117	1H	-	0.10	FL	23	S4373	
B&W BOB	7	8	DSI		0.90	M2	116	1H	+	0.00	FL	53	H8259	
B&W BOB	7	17	DSI		0.90	M2	128	1H	+	0.00	FL	24	S2680	
B&W BOB	7	21	DSI		1.40	M2	112	1H	+	0.00	FL	29	L1107	
B&W BOB			DSI		1.20	M2	116	2H	-	0.20	FL	29	L1107	
B&W BOB	7	23	DSI		1.40	M2	115	1H	-	0.10	FL	29	L1107	
B&W BOB	7	91	DSI		0.70	M2	96	1H	-	0.10	FL	10	H8259	
B&W BOB	7	94	DSI		1.00	M2	137	3H	+	0.00	FL	10	H8259	
B&W BOB	9	3	DSI		0.80	M2	94	1H	-	0.10	FL	55	H8259	
B&W BOB			DSI		0.60	M2	130	3H	+	0.10	FL	55	H8259	
B&W BOB	9	12	DSI		1.10	M2	91	1H	-	0.10	FL	49	S4373	
B&W BOB	10	57	DSI		1.50	M2	150	1H	-	0.10	FL	51	S4373	
B&W BOB	10	64	DSI		0.70	M2	125	1H	-	0.10	FL	10	H8259	
B&W BOB	10	71	DSI		0.60	M2	104	1H	-	0.10	FL	10	H8259	
B&W BOB	12	44	DSI		0.70	M2	152	1H	-	0.10	FL	1	H8259	
B&W BOB	14	69	DSI		0.70	M2	149	3H	-	0.10	FL	12	H3921	
B&W BOB	15	49	DSI		0.80	M2	106	1H	-	0.10	FL	50	S4373	
B&W BOB	15	50	DSI		0.90	M2	106	1H	-	0.10	FL	50	S4373	
B&W BOB	15	51	DSI		0.90	M2	101	1H	-	0.10	FL	50	S4373	
B&W BOB	15	53	DSI		0.60	M2	110	1H	-	0.10	FL	50	S4373	
B&W BOB	15	54	DSI		0.60	M1	106	1H	+	0.00	FL	50	S2680	
B&W BOB			DSI		0.60	M2	112	2H	-	0.10	FL	50	S4373	
B&W BOB	15	55	DSI		1.00	M2	115	1H	-	0.10	FL	50	S4373	
B&W BOB	15	57	DSI		1.80	M2	113	1H	-	0.10	FL	50	S4373	
B&W BOB	15	58	DSI		0.70	M2	122	1H	-	0.10	FL	50	S4373	
B&W BOB	15	60	DSI		1.10	M2	112	1H	+	0.00	FL	50	S4373	
B&W BOB	15	62	DSI		1.00	M2	112	1H	-	0.10	FL	50	S4373	
B&W BOB	15	63	DSI		0.80	M1	100	1H	+	0.00	FL	37	S2680	
B&W BOB	15	64	DSI		0.70	M2	131	1H	+	0.00	FL	37	H3921	
B&W BOB			DSI		0.60	M1	117	2H	+	0.00	FL	37	S2680	
B&W BOB	15	66	DSI		0.90	M2	107	1H	+	0.10	FL	37	H3921	
B&W BOB			DSI		0.60	M1	113	2H	+	0.00	FL	37	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: 2
Outage: 9/89 RES

QUERY: BOBBIN INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	15	67	DSI		0.90	M2	161	1H	-	0.10	FL	37	H3921	
B&W BOB	15	69	DSI		1.20	M2	110	1H	+	0.00	FL	37	H3921	
B&W BOB	16	48	DSI		0.70	M2	110	1H	+	0.10	FL	1	H8259	
B&W BOB	16	49	DSI		0.70	M2	148	1H	+	0.10	FL	50	S4373	
B&W BOB	17	80	DSI		0.60	M2	112	1H	-	0.10	FL	37	H3921	
B&W BOB	17	83	DSI		0.70	M1	119	1H	+	0.00	FL	37	S2680	
B&W BOB	17	85	DSI		1.10	M2	135	1H	-	0.10	FL	8	N0942	
B&W BOB	18	20	DSI		1.30	M2	116	3H	+	0.00	FL	46	L1107	
B&W BOB			DSI		1.50	M2	99	1H	+	0.10	FL	46	L1107	
B&W BOB	18	90	DSI		0.60	M2	132	1H	-	0.10	FL	8	H8259	
B&W BOB	19	61	DSI		0.80	M2	150	1H	-	0.10	FL	36	H8259	
B&W BOB	20	73	DSI		0.60	M2	125	1H	+	0.00	FL	35	H8259	
B&W BOB	21	21	DSI		1.50	M2	112	3H	-	0.10	FL	42	H8259	
B&W BOB	23	7	DSI		0.90	M2	96	1H	-	0.10	FL	54	H8259	
B&W BOB	23	15	DSI		0.80	M2	118	1H	+	0.00	FL	41	L1107	
B&W BOB	23	16	DSI		1.50	M2	118	1H	+	0.10	FL	41	L1107	
B&W BOB			DSI		0.90	M2	132	2H	+	0.00	FL	41	L1107	
B&W BOB	23	22	DSI		0.90	M2	99	1H	+	0.00	FL	41	L1107	
B&W BOB	23	35	DSI		1.00	M2	112	4H	+	0.00	FL	41	N0942	
B&W BOB			DSI		1.00	M2	100	1H	-	0.10	FL	41	L1107	
B&W BOB	23	45	DSI		0.80	M2	96	1H	-	0.10	FL	42	H8259	
B&W BOB	23	46	DSI		2.30	M1	116	1H	+	0.00	FL	42	S2680	
B&W BOB	23	54	DSI		1.10	M2	117	1H	-	0.10	FL	33	S2680	
B&W BOB			DSI		0.80	M2	122	2H	-	0.10	FL	33	H8259	
B&W BOB	23	60	DSI		1.10	M2	113	1H	-	0.40	FL	33	S2680	
B&W BOB	23	70	DSI		0.60	M2	131	1H	-	0.10	FL	34	S4373	
B&W BOB	24	11	DSI		0.60	M2	112	1H	+	0.00	FL	41	N0942	
B&W BOB	24	12	DSI		0.90	M2	120	1H	-	0.10	FL	41	L1107	
B&W BOB	24	13	DSI		0.80	M2	118	1H	-	0.10	FL	41	L1107	
B&W BOB	24	14	DSI		0.70	M2	112	1H	-	0.10	FL	41	L1107	
B&W BOB	24	15	DSI		1.10	M2	107	1H	+	0.10	FL	41	L1107	
B&W BOB	24	26	DSI		1.10	M2	99	1H	-	0.10	FL	41	L1107	
B&W BOB	24	28	DSI		0.70	M2	125	1H	-	0.10	FL	41	L1107	
B&W BOB	24	33	DSI		0.70	M2	112	1H	-	0.10	FL	41	L1107	
B&W BOB	24	59	DSI		0.70	M2	86	1H	-	0.10	FL	33	H8259	
B&W BOB	24	72	DSI		0.80	M2	107	1H	+	0.00	FL	33	H8259	
B&W BOB	24	78	DSI		1.30	M2	113	1H	-	0.10	FL	33	H8259	
B&W BOB	24	79	DSI		0.80	M2	126	1H	-	0.10	FL	33	H8259	
B&W BOB	25	16	DSI		0.90	M2	122	1H	-	0.10	FL	40	H3921	
B&W BOB	25	34	DSI		0.80	M2	103	1H	-	0.10	FL	40	H3921	
B&W BOB	25	35	DSI		0.60	M2	119	1H	-	0.10	FL	40	H3921	
B&W BOB	25	61	DSI		1.10	M2	108	1H	+	0.00	FL	32	H3921	
B&W BOB	26	12	DSI		1.30	M1	101	1H	+	0.00	FL	40	S2680	
B&W BOB	26	28	DSI		0.60	M1	118	1H	+	0.00	FL	39	S2680	
B&W BOB	26	41	DSI		0.70	M1	100	1H	+	0.00	FL	39	S2680	
B&W BOB	26	44	DSI		0.80	M2	117	1H	+	0.10	FL	39	H3921	
B&W BOB	26	50	DSI		0.90	M2	117	1H	+	0.00	FL	32	N0942	001
B&W BOB	27	17	DSI		0.90	M2	108	1H	-	0.10	FL	39	H3921	
B&W BOB	27	18	DSI		0.60	M1	100	1H	+	0.00	FL	39	S2680	
B&W BOB	27	20	DSI		0.60	M1	107	2H	+	0.00	FL	39	S2680	
B&W BOB	27	25	DSI		0.70	M1	89	1H	+	0.00	FL	39	S2680	
B&W BOB	27	41	DSI		0.80	M2	100	1H	-	0.10	FL	39	H3921	
B&W BOB	27	46	DSI		0.80	M2	98	1H	+	0.00	FL	39	H3921	
B&W BOB	27	47	DSI		0.70	M2	118	1H	+	0.00	FL	39	H3921	
B&W BOB	28	11	DSI		1.00	M1	96	1H	+	0.00	FL	54	S2680	
B&W BOB	28	12	DSI		0.60	M2	120	1H	+	0.10	FL	39	H3921	
B&W BOB	28	17	DSI		0.90	M1	109	2H	+	0.00	FL	38	S2680	
B&W BOB	28	22	DSI		1.10	M2	125	1H	-	0.20	FL	38	H3921	
B&W BOB	28	26	DSI		0.70	M1	97	1H	+	0.00	FL	38	S2680	
B&W BOB	28	27	DSI		0.90	M1	133	1H	+	0.00	FL	38	S2680	
B&W BOB	28	32	DSI		0.70	M1	111	1H	+	0.00	FL	38	S2680	
B&W BOB	28	36	DSI		0.70	M1	128	1H	+	0.00	FL	38	S2680	
B&W BOB	28	44	DSI		1.90	M2	135	1H	-	0.10	FL	38	H3921	
B&W BOB	28	52	DSI		0.90	M2	136	1H	-	0.10	FL	31	L1107	
B&W BOB	29	16	DSI		2.20	M2	128	1H	+	0.00	FL	38	S2680	
B&W BOB	29	17	DSI		0.80	M2	107	1H	-	0.10	FL	38	S2680	
B&W BOB	29	19	DSI		1.70	M2	113	1H	+	0.00	FL	38	S2680	
B&W BOB	29	27	DSI		1.10	1	63	1H	+	0.00	FL	38	S2680	
B&W BOB	30	28	DSI		1.30	M2	154	1H	-	0.40	FL	15	L1107	
B&W BOB	30	36	DSI		0.80	M2	149	1H	-	0.10	FL	15	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: C
Outage: 9/89 RES

QUERY: BOBB = INDICATIONS - DSI

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
B&W BOB	30	70	DSI		1.00	M2	129	1H	-	0.10	FL	27	H3921	
B&W BOB	31	21	DSI		1.20	M2	120	1H	+	0.00	FL	14	S2680	
B&W BOB	31	36	DSI		1.10	M2	99	1H	+	0.00	FL	14	S2680	
B&W BOB			DSI		0.90	M2	115	2H	+	0.00	FL	14	S2680	
B&W BOB			DSI		0.70	M2	138	3H	+	0.00	FL	14	S2680	
B&W BOB	31	51	DSI		0.90	M2	120	1H	+	0.10	FL	26	S4373	
B&W BOB			DSI		0.80	M2	115	2H	-	0.20	FL	26	S4373	
B&W BOB	31	59	DSI		1.10	M2	119	1H	+	0.00	FL	27	H3921	
B&W BOB	31	65	DSI		1.20	M2	129	1H	-	0.20	FL	27	H3921	
B&W BOB	32	20	DSI		1.20	M2	117	1H	-	0.40	FL	14	S2680	
B&W BOB	32	21	DSI		0.60	M2	114	2H	+	0.00	FL	14	S2680	
B&W BOB	32	23	DSI		0.90	M2	131	1H	+	0.00	FL	14	S2680	
B&W BOB	32	27	DSI		0.60	M2	108	1H	+	0.00	FL	14	S2680	
B&W BOB	32	28	DSI		0.60	M2	137	1H	+	0.10	FL	14	S2680	
B&W BOB	32	47	DSI		1.30	M2	112	1H	+	0.00	FL	13	L1107	
B&W BOB	32	55	DSI		1.50	M2	107	1H	-	0.10	FL	26	S4373	
B&W BOB	32	57	DSI		0.60	M1	114	1H	+	0.00	FL	26	S2680	
B&W BOB	32	60	DSI		0.60	M2	106	1H	-	0.40	FL	26	S4373	
B&W BOB	33	19	DSI		0.90	M2	123	1H	-	0.10	FL	13	L1107	
B&W BOB			DSI		0.70	M2	106	2H	+	0.00	FL	13	L1107	
B&W BOB	33	36	DSI		0.90	M2	143	1H	-	0.10	FL	13	L1107	
B&W BOB	33	51	DSI		0.80	M2	105	1H	-	0.10	FL	20	L1107	
B&W BOB	33	64	DSI		1.00	M2	122	1H	-	0.10	FL	20	L1107	
B&W BOB	33	68	DSI		0.90	M2	117	1H	-	0.10	FL	26	S4373	
B&W BOB	33	78	DSI		0.80	M2	119	4H	+	0.20	FL	26	S4373	
B&W BOB	33	79	DSI		1.30	M2	133	1H	+	0.20	FL	26	S4373	
B&W BOB	34	24	DSI		0.80	M2	115	1H	-	0.10	FL	13	L1107	
B&W BOB	35	20	DSI		0.90	M2	122	2H	-	0.10	FL	7	L1107	
B&W BOB	35	28	DSI		1.10	M2	101	1H	-	0.10	FL	7	L1107	
B&W BOB	35	31	DSI		0.90	M2	103	1H	-	0.10	FL	7	L1107	
B&W BOB	35	47	DSI		1.12	M2	127	1H	+	0.00	FL	7	S2680	
B&W BOB	35	55	DSI		0.60	M1	124	1H	+	0.00	FL	19	S2680	
B&W BOB	35	63	DSI		0.90	M2	132	1H	-	0.10	FL	19	H3921	
B&W BOB	35	67	DSI		0.60	M2	137	1H	+	0.10	FL	19	H3921	
B&W BOB	36	24	DSI		0.70	M2	87	2H	+	0.00	FL	7	S2680	
B&W BOB	36	31	DSI		0.80	M2	103	1H	-	0.10	FL	7	L1107	
B&W BOB	36	36	DSI		0.70	M2	111	2H	-	0.10	FL	7	L1107	
B&W BOB	36	65	DSI		0.60	M2	94	2H	+	0.10	FL	19	S2680	
B&W BOB			DSI		1.10	M2	108	3H	-	0.20	FL	19	S2680	
B&W BOB	37	34	DSI		0.60	M2	83	1H	+	0.00	FL	6	S2680	
B&W BOB	37	35	DSI		0.90	M2	121	2H	-	0.20	FL	6	L1107	
B&W BOB	38	38	DSI		1.00	M2	116	2H	-	0.10	FL	5	L1107	
B&W BOB	39	32	DSI		0.80	M2	122	1H	+	0.10	FL	5	L1107	
B&W BOB	41	33	DSI		0.90	M2	124	1H	+	0.20	FL	4	H8259	
B&W BOB	42	39	DSI		0.70	M2	110	1H	-	0.10	FL	4	H8259	
B&W BOB	42	48	DSI		0.90	M2	128	1H	+	0.10	FL	16	H8259	
B&W BOB	43	37	DSI		1.00	M2	124	1H	+	0.20	FL	3	S2680	

TOTAL TUBES FOUND = 168
TOTAL INDICATIONS FOUND = 187
TOTAL TUBES IN INPUT FILE = 3388

ATTACHMENT II

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 RES

RT: TUBES INSPECTED WITH EDDY-360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	1	1	NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	1	4	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	5	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	6	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	7	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	8	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	10	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	11	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	12	NDD						+ 0.00	U-BEND	8	L1107	
UB 360 P	1	13	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	14	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	16	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	17	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	18	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	19	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	20	COD1	32	1.63	1	127	7H	+ 4.90	U-BEND	2	L1107	
UB 360 P	1	21	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	22	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	23	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	24	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	26	NDD						+ 0.00	U-BEND	8	L1107	
UB 360 P	1	28	COD1	24	0.95	1	8	7H	+ 9.30	U-BEND	3	L1107	
UB 360 P	1	30	NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	1	31	NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	1	33	NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	1	34	NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	1	38	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	1	41	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	1	42	ID1	65	4.04	1	55	7H	+ 10.70	U-BEND	9	N0942	
UB 360 P	1	43	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	1	45	NDD						+ 0.00	U-BEND	3	L1107	
360 P	1	46	ID1	83	7.28	1	30	7H	+ 5.10	U-BEND	3	L1107	
360 P	1	47	NDD						+ 0.00	U-BEND	2	L1107	
360 P			NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	1	49	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	51	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	53	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	54	NDD						+ 0.00	U-BEND	8	L1107	
UB 360 P	1	57	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	59	NDD						+ 0.00	U-BEND	8	L1107	
UB 360 P	1	60	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	61	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	62	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	63	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	64	ID1	46	4.41	1	33	7H	+ 4.00	U-BEND	2	L1107	
UB 360 P	1	65	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	66	ID1	35	2.75	1	26	7H	+ 4.00	U-BEND	2	L1107	
UB 360 P	1	67	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	70	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	71	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	73	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	74	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	75	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	76	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	77	ID1	43	3.97	1	17	7H	+ 4.70	U-BEND	2	L1107	
UB 360 P	1	83	ID1	42	3.72	1	8	7H	+ 4.20	U-BEND	2	L1107	
UB 360 P	1	84	NDD						+ 0.00	U-BEND	2	L1107	
UB 360 P	1	85	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	1	86	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	1	87	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	1	88	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	1	89	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	1	94	NDD						+ 0.00	U-BEND	9	N0942	
UB 360 P	2	1	NDD						+ 0.00	U-BEND	2	N0942	
UB 360 P			NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	2	2	NDD						+ 0.00	U-BEND	2	N0942	
UB 360 P			NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	2	3	NDD						+ 0.00	U-BEND	3	L1107	
UB 360 P	2	4	NDD						+ 0.00	U-BEND	2	L1107	
360 P	2	5	NDD						+ 0.00	U-BEND	2	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: A
Stage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY 360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	2	6	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	7	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	8	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	9	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	10	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	11	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	12	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	13	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	14	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	15	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	16	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	17	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	18	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	19	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	20	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	21	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	22	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	23	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	24	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P			NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	25	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	26	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	27	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	28	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	29	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	30	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	31	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	32	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	33	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	34	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	35	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	36	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	37	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	38	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	39	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	40	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	42	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	43	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	44	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	45	NDD					+	0.00	U-BEND	3	L1107	
UB 360 P	2	46	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	47	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	48	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	50	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	51	NDD					+	0.00	U-BEND	7	S2680	
UB 360 P	2	52	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	53	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	54	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	55	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	56	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	57	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	58	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	59	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	60	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	61	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	62	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	63	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	64	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	65	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	66	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	67	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	68	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	69	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	70	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	71	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	72	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	73	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	74	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	75	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	76	NDD					+	0.00	U-BEND	2	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: A
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QUERY: TUBES INSPECTED WITH EDDY-360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	2	77	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	78	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	79	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	80	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	81	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	82	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	83	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	84	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	85	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	86	NDD					+	0.00	U-BEND	2	L1107	
UB 360 P	2	87	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	88	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	89	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	90	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	91	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	92	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	93	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	94	NDD					+	0.00	U-BEND	9	N0942	

TOTAL TUBES FOUND = 154
TOTAL INDICATIONS FOUND = 158
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
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QUERY: EDDY-360 INDICATIONS UBEND EXAMINATION ALL % Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	1	20	ODI	32	1.63	1	127	7H	+ 4.90	U-BEND	2	L1107	
UB 360 P	1	28	ODI	24	0.95	1	8	7H	+ 9.30	U-BEND	3	L1107	
UB 360 P	1	42	IDI	65	4.04	1	55	7H	+ 10.70	U-BEND	9	ND942	
UB 360 P	1	46	IDI	83	7.28	1	30	7H	+ 5.10	U-BEND	3	L1107	
UB 360 P	1	64	IDI	46	4.41	1	33	7H	+ 4.00	U-BEND	2	L1107	
UB 360 P	1	66	IDI	35	2.75	1	26	7H	+ 4.00	U-BEND	2	L1107	
UB 360 P	1	77	IDI	43	3.97	1	17	7H	+ 4.70	U-BEND	2	L1107	
UB 360 P	1	83	IDI	42	3.72	1	8	7H	+ 4.20	U-BEND	2	L1107	

TOTAL TUBES FOUND = 8
TOTAL INDICATIONS FOUND = 8
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Stage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	1	1	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	2	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	3	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	4	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	5	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	6	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	7	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	9	IDI	36	2.45	1	20 TC	+	3.40	TC	10	L1107	
UB 360 P	1	10	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	11	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	13	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	14	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	15	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P			NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	16	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	17	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	18	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	19	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	20	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	21	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	23	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P			NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	24	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	25	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	26	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P			NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	27	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	28	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	29	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	30	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	31	NDD					+	0.00	U-BEND	1	N0942	
1 360 P	1	32	NDD					+	0.00	U-BEND	1	N0942	
J 360 P	1	33	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	34	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	1	35	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P			NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	37	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P			NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	38	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P			NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	40	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	41	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	42	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	43	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	44	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	45	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	47	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	48	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	49	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	50	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	51	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	52	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	53	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	54	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	55	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	56	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	57	NDD					+	0.00	TC	10	L1107	
UB 360 P	1	59	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	60	NDD					+	0.00	U-BEND	4	L1107	
UB 360 P	1	61	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	62	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	63	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P			NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	64	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	65	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	66	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	67	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	68	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	70	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	71	NDD					+	0.00	U-BEND	2	N0942	

Plant: Beaver Valley Unit 1 Steam Generator: B
Stage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	1	72	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	73	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	74	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	75	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	76	NDD					+	0.00	U-BEND	4	L1107	
UB 360 P	1	78	NDD					+	0.00	U-BEND	4	L1107	
UB 360 P	1	79	NDD					+	0.00	U-BEND	4	L1107	
UB 360 P	1	80	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	81	NDD					+	0.00	U-BEND	4	L1107	
UB 360 P	1	82	NDD					+	0.00	U-BEND	4	L1107	
UB 360 P	1	83	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	84	NDD					+	0.00	U-BEND	4	L1107	
UB 360 P	1	85	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	86	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	87	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	88	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	89	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	90	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	91	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	92	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	93	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	1	94	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	1	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	2	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	3	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	4	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	5	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	6	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	7	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	8	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	9	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	10	NDD					+	0.00	7C	10	L1107	
UB 360 P	2	11	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	12	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	13	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	14	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	15	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	16	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	17	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	18	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	19	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	21	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	22	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	23	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P			NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	24	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	25	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	26	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	27	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	28	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	29	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	30	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	31	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	32	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	33	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	34	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	35	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	36	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	37	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	38	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	39	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	40	NDD					+	0.00	U-BEND	2	N0942	
UB 360 P	2	41	NDD					+	0.00	U-BEND	1	N0942	
[illegible] P	2	42	NDD					+	0.00	U-BEND	4	L1107	
[illegible] P	2	43	NDD					+	0.00	U-BEND	4	L1107	
[illegible] P	2	44	NDD					+	0.00	U-BEND	1	N0942	
[illegible] P			NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	45	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	46	NDD					+	0.00	U-BEND	1	N0942	
360 P	2	47	NDD					+	0.00	U-BEND	1	N0942	

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST COMMENTS
UB 360 P	2	48	NDD					+	0.00	U-BEND	1	N0942
UB 360 P	2	49	NDD					+	0.00	U-BEND	1	N0942
UB 360 P	2	50	NDD					+	0.00	TC	10	L1107
UB 360 P	2	51	NDD					+	0.00	TC	10	L1107
UB 360 P	2	52	NDD					+	0.00	TC	10	L1107
UB 360 P	2	53	NDD					+	0.00	TC	10	L1107
UB 360 P	2	54	NDD					+	0.00	TC	10	L1107
UB 360 P	2	55	NDD					+	0.00	TC	10	L1107
UB 360 P	2	56	NDD					+	0.00	TC	10	L1107
UB 360 P	2	57	NDD					+	0.00	TC	10	L1107
UB 360 P	2	58	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	60	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	61	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	62	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	63	NDD					+	0.00	U-BEND	4	L1107
UB 360 P	2	64	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	65	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	66	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	67	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	68	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	69	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	70	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	71	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	72	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	73	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	74	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	75	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	76	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	77	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	78	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	79	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	80	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	81	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	82	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	83	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	84	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	85	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	86	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	87	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	88	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	89	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	90	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	91	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	92	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	93	NDD					+	0.00	U-BEND	2	N0942
UB 360 P	2	94	NDD					+	0.00	U-BEND	2	N0942

TOTAL TUBES FOUND = 177
TOTAL INDICATIONS FOUND = 186
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	1	1	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	2	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	3	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	4	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	5	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	6	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	7	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	8	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	9	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	10	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	11	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	12	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	13	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	14	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	15	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	16	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	17	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	18	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	19	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	20	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	21	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	22	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	23	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	24	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	25	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	26	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	27	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	28	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	1	29	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	30	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	31	NDD					+	0.00		U-BEND	2	S2680	
360 P	1	32	NDD					+	0.00		U-BEND	2	S2680	
360 P	1	33	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	34	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	35	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	36	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	37	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	38	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	39	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	40	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	41	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	42	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	43	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	44	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	45	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	46	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	47	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	48	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	49	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	50	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	51	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	52	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	53	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	54	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	55	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	56	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	58	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	59	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	60	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	61	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	63	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	64	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	65	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	67	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	68	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	69	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	70	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	71	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	72	NDD					+	0.00		U-BEND	2	S2680	
360 P	1	73	NDD					+	0.00		U-BEND	2	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: C
Outage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	1	74	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	75	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	76	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	77	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	78	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	79	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	80	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	81	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	82	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	83	NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	1	84	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	85	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	86	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	1	87	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	88	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	89	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	90	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	91	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	92	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	93	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	1	94	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	1	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	2	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	3	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	4	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	5	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	6	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	7	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	8	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	9	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	10	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	11	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	12	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	13	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P			NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	2	14	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P			NDD					+	0.00		U-BEND	6	N0942	
UB 360 P	2	15	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	16	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	17	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	18	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	19	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	20	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	21	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	22	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	23	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	24	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	25	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	26	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	27	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	28	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	29	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	30	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	31	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	32	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	33	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	34	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	35	NDD					+	0.00		U-BEND	2	N0942	
UB 360 P	2	36	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	37	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	38	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	39	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	40	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	41	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	42	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	43	NDD					+	0.00		U-BEND	9	N0942	
UB 360 P	2	44	NDD					+	0.00		U-BEND	2	S2680	
UB 360 P	2	45	NDD					+	0.00		U-BEND	1	N0942	
UB 360 P	2	46	NDD					+	0.00		U-BEND	1	N0942	
UB 360 P	2	47	NDD					+	0.00		U-BEND	1	N0942	

Plant: Beaver Valley Unit 1 Steam Generator: C
Stage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 UBEND EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
UB 360 P	2	48	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	49	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	50	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	51	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	52	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	53	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	54	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	55	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	56	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	57	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	58	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	59	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	60	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	61	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	62	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	63	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	64	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	65	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	66	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	67	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	68	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	69	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	70	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	72	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	73	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	74	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	75	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	76	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	77	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	78	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	79	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	80	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	81	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	82	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	83	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	84	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	85	NDD					+	0.00	U-BEND	1	N0942	
UB 360 P	2	86	NDD					+	0.00	U-BEND	2	S2680	
UB 360 P	2	87	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	88	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	89	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	90	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	91	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	92	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	93	NDD					+	0.00	U-BEND	9	N0942	
UB 360 P	2	94	NDD					+	0.00	U-BEND	9	N0942	

TOTAL TUBES FOUND = 184
TOTAL INDICATIONS FOUND = 186
TOTAL TUBES IN INPUT FILE = 3388

ATTACHMENT III

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	1	17	NDD					+	0.00	2H	20	S2680	
DSI 360P			NDD					+	0.00	1H	20	S2680	
DSI 360P	1	28	NDD					+	0.00	1H	6	N0942	
DSI 360P	1	30	NDD					+	0.00	1H	6	N0942	
DSI 360P	1	33	NDD					+	0.00	1H	6	N0942	
DSI 360P	1	34	OD1	28	0.90	1	143 1H	-	0.10	1H	10	L1107	
DSI 360P			NDD					+	0.00	1H	6	N0942	
DSI 360P	1	43	OD1	17	0.83	1	75 1H	-	0.10	1H	20	S2680	
DSI 360P	1	46	NDD					+	0.00	1H	20	S2680	
DSI 360P	2	1	NDD					+	0.00	2H	22	S2680	
DSI 360P	2	2	NDD					+	0.00	2H	22	S2680	
DSI 360P	2	8	OD1	13	0.55	1	60 1H	+	0.00	1H	20	S2680	
DSI 360P	2	9	NDD					+	0.00	1H	20	S2680	
DSI 360P	2	26	NDD					+	0.00	1H	6	N0942	
DSI 360P	2	29	OD1	36	1.39	1	142 1H	+	0.30	1H	10	L1107	
DSI 360P			NDD					+	0.00	1H	6	N0942	
DSI 360P	2	30	NDD					+	0.00	1H	6	N0942	
DSI 360P	2	31	NDD					+	0.00	1H	6	N0942	
DSI 360P	2	32	OD1	36	1.76	1	136 3H	+	0.00	3H	15	L1107	
DSI 360P			NDD					+	0.00	3H	6	N0942	
DSI 360P			OD1	43	1.61	1	101 1H	+	0.10	1H	6	N0942	
DSI 360P	2	34	NDD					+	0.00	3H	6	N0942	
DSI 360P			NDD					+	0.00	2H	6	N0942	
DSI 360P			OD1	30	0.88	1	122 1H	-	0.10	1H	6	N0942	
DSI 360P	2	37	NDD					+	0.00	1H	10	L1107	
DSI 360P	2	53	NDD					+	0.00	1H	22	S2680	
DSI 360P	2	54	OD1	16	1.44	1	132 1H	+	0.00	1H	22	S2680	
DSI 360P	2	63	OD1	25	0.73	1	124 2H	+	0.10	2H	10	L1107	
DSI 360P	2	68	NDD					+	0.00	TSH	20	S2680	
DSI 360P	2	69	NDD					+	0.00	1H	21	N0942	
DSI 360P	2	70	NDD					+	0.00	2H	21	N0942	
DSI 360P	2	73	NDD					+	0.00	1H	21	N0942	
DSI 360P	2	79	OD1	38	1.54	1	68 1H	-	0.10	1H	10	L1107	
DSI 360P	2	86	NDD					+	0.00	2H	21	N0942	
DSI 360P	3	1	OD1	41	1.46	1	57 1H	-	0.10	1H	6	N0942	
DSI 360P	3	2	NDD					+	0.00	2H	22	S2680	
DSI 360P	3	3	NDD					+	0.00	2H	22	S2680	
DSI 360P	3	5	OD1	19	0.87	1	54 1H	+	0.20	1H	22	S2680	
DSI 360P	3	6	NDD					+	0.00	2H	6	N0942	
DSI 360P	3	22	OD1	28	0.77	1	120 1H	-	0.20	1H	6	N0942	
DSI 360P	3	23	OD1	39	1.98	1	97 2H	+	0.00	2H	15	L1107	
DSI 360P			NDD					+	0.00	1H	6	N0942	
DSI 360P	3	27	OD1	30	1.02	1	5 2H	-	0.20	2H	10	L1107	
DSI 360P			OD1	26	0.81	1	25 1H	+	0.20	1H	10	L1107	
DSI 360P	3	28	NDD					+	0.00	1H	10	L1107	
DSI 360P	3	31	OD1	33	1.06	1	73 1H	-	3.10	1H	6	N0942	
DSI 360P	3	34	NDD					+	0.00	1H	20	S2680	
DSI 360P	3	37	NDD					+	0.00	2H	10	L1107	
DSI 360P	3	38	OD1	37	1.85	1	104 1H	+	0.00	1H	15	L1107	
DSI 360P			NDD					+	0.00	2H	21	N0942	
DSI 360P	3	42	NDD					+	0.00	1H	10	L1107	
DSI 360P	3	45	NDD					+	0.00	1H	20	S2680	
DSI 360P	3	52	OD1	29	0.80	1	122 1H	-	0.10	1H	6	N0942	
DSI 360P	3	53	OD1	13	1.05	1	127 1H	+	0.10	1H	22	S2680	
DSI 360P	3	56	OD1	69	4.35	1	42 1H	-	0.10	1H	6	N0942	
DSI 360P	3	57	NDD					+	0.00	2H	22	S2680	
DSI 360P			NDD					+	0.00	1H	22	S2680	
DSI 360P	3	59	NDD					+	0.00	1H	6	N0942	
DSI 360P	3	61	NDD					+	0.00	1H	21	N0942	
DSI 360P	3	62	NDD					+	0.00	2H	21	N0942	
DSI 360P			OD1	15	0.55	1	100 1H	-	0.30	1H	21	N0942	
DSI 360P	3	63	NDD					+	0.00	1H	21	N0942	
DSI 360P	3	65	NDD					+	0.00	2H	21	N0942	
DSI 360P			NDD					+	0.00	1H	21	N0942	
DSI 360P	3	71	OD1	25	0.73	1	140 1H	+	0.00	1H	10	L1107	
DSI 360P	3	75	OD1	36	1.74	1	133 2H	+	0.30	2H	15	L1107	
DSI 360P			OD1	50	2.30	1	69 1H	+	0.00	1H	6	L1107	
DSI 360P	3	78	OD1	42	1.56	1	40 1H	+	0.10	1H	6	L1107	
DSI 360P	3	84	OD1	25	0.60	1	30 1H	+	0.10	1H	6	L1107	
DSI 360P	3	85	NDD					+	0.00	1H	6	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: A
Cycle: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	4	2	NDD					+	0.00	2H	6	N0942	
DSI 360P	4	4	NDD					+	0.00	1H	22	S2680	
DSI 360P	4	6	NDD					+	0.00	1H	6	N0942	
DSI 360P	4	8	ODI	40	1.40	1	147 2H	-	0.20	2H	6	N0942	
DSI 360P	4	12	NDD					+	0.00	1H	20	S2680	
DSI 360P	4	13	ODI	35	1.14	1	97 2H	+	0.20	2H	6	N0942	
DSI 360P	4	15	NDD					+	0.00	1H	20	S2680	
DSI 360P	4	16	ODI	26	0.63	1	136 2H	+	0.00	2H	6	N0942	
DSI 360P	4	18	NDD					+	0.00	2H	21	N0942	
DSI 360P			ODI	36	1.20	1	75 1H	+	0.10	1H	6	N0942	
DSI 360P	4	20	NDD					+	0.00	1H	6	N0942	
DSI 360P	4	25	ODI	41	1.48	1	126 1H	+	0.00	1H	6	N0942	
DSI 360P	4	27	ODI	28	0.75	1	44 1H	-	0.10	1H	6	N0942	
DSI 360P	4	29	ODI	36	1.23	1	37 1H	+	0.00	1H	6	N0942	
DSI 360P	4	31	NDD					+	0.00	2H	10	L1107	
DSI 360P			ODI	31	1.08	1	30 1H	-	0.10	1H	10	L1107	
DSI 360P			NDD					+	0.00	1H	6	N0942	
DSI 360P			ODI	32	1.01	1	27 1H	-	0.10	1H	6	N0942	
DSI 360P	4	32	ODI	32	0.90	1	150 1H	+	0.00	1H	6	N0942	
DSI 360P	4	34	ODI	20	0.40	1	114 1H	+	0.00	1H	6	N0942	
DSI 360P	4	39	ODI	32	1.18	1	17 1H	+	0.10	1H	10	L1107	
DSI 360P	4	40	ODI	29	1.18	1	75 3H	+	0.00	3H	15	L1107	
DSI 360P			ODI	29	1.23	1	26 1H	-	0.10	1H	15	L1107	
DSI 360P	4	41	NDD					+	0.00	1H	10	L1107	
DSI 360P	4	42	NDD					+	0.00	1H	10	L1107	
DSI 360P	4	43	ODI	30	1.26	1	80 3H	+	0.10	3H	15	L1107	
DSI 360P	4	44	ODI	29	0.94	1	12 1H	+	0.00	1H	10	L1107	
DSI 360P	4	46	NDD					+	0.00	2H	20	S2680	
DSI 360P	4	49	NDD					+	0.00	1H	22	S2680	
DSI 360P	4	51	NDD					+	0.00	1H	6	N0942	
DSI 360P	4	53	NDD					+	0.00	1H	22	S2680	
DSI 360P	4	54	NDD					+	0.00	1H	6	N0942	
DSI 360P	4	58	ODI	35	1.14	1	93 2H	-	0.10	2H	6	N0942	
DSI 360P			ODI	38	1.29	1	114 1H	-	0.10	1H	6	N0942	
DSI 360P	4	6[illegible]	ODI	44	1.74	1	122 1H	-	0.10	1H	6	L1107	
DSI 360P	4	67	ODI	31	0.96	1	29 1H	+	0.00	1H	6	L1107	
DSI 360P	4	69	ODI	29	0.81	1	159 2H	+	0.20	2H	6	L1107	
DSI 360P	4	81	ODI	36	1.23	1	127 1H	+	0.00	1H	6	L1107	
DSI 360P	5	6	ODI	9	0.75	1	142 2H	+	0.00	2H	22	S2680	
DSI 360P	5	9	ODI	16	0.73	1	69 2H	-	0.10	2H	20	S2680	
DSI 360P	5	10	NDD					+	0.00	3H	20	S2680	
DSI 360P	5	24	NDD					+	0.00	1H	6	N0942	
DSI 360P	5	27	ODI	33	1.06	1	127 1H	+	0.00	1H	6	N0942	
DSI 360P	5	28	NDD					+	0.00	1H	6	N0942	
DSI 360P	5	29	NDD					+	0.00	1H	6	N0942	
DSI 360P	5	33	ODI	16	0.74	1	122 1H	+	0.10	1H	20	S2680	
DSI 360P	5	35	ODI	33	1.19	1	162 1H	+	0.10	1H	10	L1107	
DSI 360P	5	36	ODI	31	1.39	1	102 1H	+	0.00	1H	15	L1107	
DSI 360P	5	37	NDD					+	0.00	1H	10	L1107	
DSI 360P	5	38	ODI	28	1.13	1	59 1H	+	0.00	1H	15	L1107	
DSI 360P	5	56	NDD					+	0.00	1H	6	N0942	
DSI 360P	5	57	ODI	12	1.03	1	62 1H	+	0.10	1H	22	S2680	
DSI 360P	5	65	ODI	16	0.57	1	76 1H	-	0.20	1H	21	N0942	
DSI 360P	5	66	NDD					+	0.00	2H	21	N0942	
DSI 360P	5	73	ODI	24	0.57	1	104 1H	+	0.00	1H	6	L1107	
DSI 360P	5	78	NDD					+	0.00	1H	6	L1107	
DSI 360P	5	86	NDD					+	0.00	1H	21	N0942	
DSI 360P	6	3	NDD					+	0.00	1H	22	S2680	
DSI 360P	6	4	ODI	34	1.08	1	60 1H	-	0.10	1H	6	N0942	
DSI 360P	6	7	NDD					+	0.00	2H	22	S2680	
DSI 360P	6	8	ODI	21	0.39	1	95 1H	-	0.10	1H	6	N0942	
DSI 360P	6	13	ODI	35	1.36	1	93 1H	-	0.10	1H	10	L1107	
DSI 360P			NDD					+	0.00	1H	6	N0942	
DSI 360P	6	14	ODI	17	0.79	1	97 2H	+	0.30	2H	20	S2680	
DSI 360P	6	18	NDD					+	0.00	1H	6	N0942	
DSI 360P	6	23	NDD					+	0.00	2H	20	S2680	
DSI 360P	6	25	NDD					+	0.00	1H	20	S2680	
DSI 360P	6	26	ODI	22	0.43	1	17 1H	+	0.20	1H	6	N0942	
DSI 360P	6	30	ODI	36	1.75	1	63 1H	+	0.20	1H	15	L1107	
DSI 360P	6	32	ODI	14	0.59	1	60 1H	+	0.10	1H	20	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	6	33	ODI	29	0.81	1	106	1H	+	0.00	1H	6	N0942	
DSI 360P	6	35	NDD						+	0.00	1H	10	L1107	
DSI 360P	6	36	NDD						+	0.00	1H	10	L1107	
DSI 360P	6	37	ODI	32	1.17	1	9	2H	-	0.10	2H	10	L1107	
DSI 360P			ODI	42	2.24	1	98	1H	-	0.10	1H	15	L1107	
DSI 360P	6	39	ODI	28	0.91	1	165	1H	-	0.30	1H	10	L1107	
DSI 360P	6	41	NDD						+	0.00	1H	20	S2680	
DSI 360P	6	42	NDD						+	0.00	1H	10	L1107	
DSI 360P	6	43	NDD						+	0.00	2H	20	S2680	
DSI 360P	6	45	NDD						+	0.00	2H	20	S2680	
DSI 360P	6	47	ODI	29	1.17	1	42	1H	+	0.10	1H	15	L1107	
DSI 360P	6	48	NDD						+	0.00	1H	22	S2680	
DSI 360P	6	60	ODI	33	1.06	1	143	1H	-	0.20	1H	6	N0942	
DSI 360P	6	61	NDD						+	0.00	1H	6	N0942	
DSI 360P	6	62	ODI	14	0.51	1	105	1H	+	0.00	1H	21	N0942	
DSI 360P	6	63	NDD						+	0.00	1H	6	L1107	
DSI 360P	6	64	ODI	34	1.09	1	59	1H	-	0.10	1H	6	L1107	
DSI 360P	6	68	NDD						+	0.00	3H	6	L1107	
DSI 360P	6	75	NDD						+	0.00	1H	6	L1107	
DSI 360P	6	77	ODI	34	1.11	1	147	1H	+	0.10	1H	6	L1107	
DSI 360P	6	81	ODI	28	0.77	1	143	1H	+	0.10	1H	6	L1107	
DSI 360P	6	82	NDD						+	0.00	1H	6	L1107	
DSI 360P	6	86	NDD						+	0.00	1H	21	N0942	
DSI 360P	7	5	NDD						+	0.00	3H	6	N0942	
DSI 360P	7	6	NDD						+	0.00	1H	6	N0942	
DSI 360P	7	9	NDD						+	0.00	3H	6	N0942	
DSI 360P			ODI	41	1.49	1	112	1H	-	0.20	1H	6	N0942	
DSI 360P	7	10	NDD						+	0.00	1H	6	N0942	
DSI 360P	7	11	NDD						+	0.00	1H	20	S2680	
DSI 360P	7	13	ODI	32	0.96	1	44	1H	-	0.10	1H	6	N0942	
DSI 360P	7	15	NDD						+	0.00	2H	20	S2680	
DSI 360P	7	17	NDD						+	0.00	2H	20	S2680	
DSI 360P	7	18	NDD						+	0.00	1H	6	N0942	
DSI 360P	7	21	ODI	32	1.18	1	171	1H	-	0.10	1H	10	L1107	
DSI 360P			ODI	24	0.55	1	148	1H	+	0.00	1H	6	N0942	
DSI 360P	7	26	ODI	26	0.97	1	83	1H	+	0.00	1H	15	L1107	
DSI 360P	7	29	NDD						+	0.00	1H	6	N0942	
DSI 360P	7	30	NDD						+	0.00	1H	20	S2680	
DSI 360P	7	32	ODI	17	0.78	1	74	1H	+	0.20	1H	20	S2680	
DSI 360P	7	34	ODI	37	1.25	1	35	1H	-	0.10	1H	6	N0942	
DSI 360P	7	35	ODI	30	1.03	1	21	1H	+	0.20	1H	10	L1107	
DSI 360P	7	37	NDD						+	0.00	1H	10	L1107	
DSI 360P	7	38	NDD						+	0.00	1H	20	S2680	
DSI 360P	7	45	ODI	28	1.13	1	84	2H	+	0.00	2H	15	L1107	
DSI 360P	7	47	ODI	37	1.89	1	100	1H	+	0.10	1H	15	L1107	
DSI 360P	7	51	ODI	21	0.36	1	131	1H	+	0.10	1H	6	N0942	
DSI 360P	7	52	NDD						+	0.00	2H	22	S2680	
DSI 360P			ODI	13	1.11	1	114	1H	-	0.10	1H	22	S2680	
DSI 360P	7	55	NDD						+	0.00	2H	6	N0942	
DSI 360P	7	57	ODI	27	0.73	1	22	1H	+	0.00	1H	6	N0942	
DSI 360P	7	60	ODI	44	1.68	1	130	1H	+	0.00	1H	6	N0942	
DSI 360P	7	62	ODI	17	0.82	1	79	1H	+	0.00	1H	21	N0942	
DSI 360P	7	63	ODI	34	1.10	1	22	1H	+	0.10	1H	6	L1107	
DSI 360P	7	75	ODI	28	0.79	1	30	1H	+	0.20	1H	6	L1107	
DSI 360P	7	78	ODI	31	0.92	1	65	1H	+	0.00	1H	6	L1107	
DSI 360P	7	79	NDD						+	0.00	2H	6	L1107	
DSI 360P			ODI	26	0.69	1	34	1H	+	0.10	1H	6	L1107	
DSI 360P	7	80	NDD						+	0.00	1H	21	N0942	
DSI 360P	8	5	NDD						+	0.00	3H	22	S2680	
DSI 360P	8	6	NDD						+	0.00	2H	22	S2680	
DSI 360P	8	8	NDD						+	0.00	2H	22	S2680	
DSI 360P			NDD						+	0.00	3H	6	N0942	
DSI 360P			NDD						+	0.00	1H	6	N0942	
DSI 360P	8	9	NDD						+	0.00	4H	22	S2680	
DSI 360P			NDD						+	0.00	3H	22	S2680	
DSI 360P			NDD						+	0.00	2H	6	N0942	
DSI 360P			NDD						+	0.00	1H	6	N0942	
DSI 360P	8	21	NDD						+	0.00	2H	20	S2680	
DSI 360P	8	24	NDD						+	0.00	2H	20	S2680	
I 360P			NDD						+	0.00	1H	20	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: A
Stage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	8	26	NDD						+	0.00	1H	20	S2680	
DSI 360P	8	30	OOI	26	0.65	1	29	1H	+	0.10	1H	6	N0942	
DSI 360P	8	32	OOI	30	0.88	1	102	1H	+	0.20	1H	6	N0942	
DSI 360P	8	33	OOI	33	1.02	1	73	3H	+	0.10	3H	6	N0942	
DSI 360P			OOI	41	1.50	1	150	2H	-	0.20	2H	6	N0942	
DSI 360P			OOI	48	2.15	1	55	1H	+	0.00	1H	6	N0942	
DSI 360P	8	37	OOI	29	0.97	1	24	1H	+	0.00	1H	10	L1107	
DSI 360P	8	42	NDD						+	0.00	1H	20	S2680	
DSI 360P	8	50	OOI	16	1.43	1	84	1H	-	0.20	1H	[illegible]	S2680	
DSI 360P	8	51	NDD						+	0.00	2H	6	N0942	
DSI 360P			NDD						+	0.00	1H	6	N0942	
DSI 360P	8	54	NDD						+	0.00	1H	6	N0942	
DSI 360P	8	64	NDD						+	0.00	1H	6	L1107	
DSI 360P	8	70	NDD						+	0.00	1H	21	N0942	
DSI 360P	8	72	NDD						+	0.00	1H	21	N0942	
DSI 360P	8	74	OOI	16	0.63	1	41	1H	-	0.10	1H	21	N0942	
DSI 360P	8	76	OOI	17	0.76	1	70	1H	+	0.30	1H	21	N0942	
DSI 360P	8	78	OOI	17	0.78	1	100	2H	-	0.20	2H	21	N0942	
DSI 360P	8	79	NDD						+	0.00	1H	21	N0942	
DSI 360P	8	81	OOI	36	1.21	1	28	1H	+	0.00	1H	6	L1107	
DSI 360P	9	19	OOI	16	0.75	1	56	1H	+	0.00	1H	20	S2680	
DSI 360P	9	22	NDD						+	0.00	1H	20	S2680	
DSI 360P	9	23	IDI	22	0.47	1	28	1H	+	0.20	1H	6	L1107	
DSI 360P	9	25	OOI	17	0.89	1	105	1H	+	0.10	1H	20	S2680	
DSI 360P	9	26	OOI	29	0.84	1	163	1H	+	0.10	1H	6	L1107	
DSI 360P	9	27	OOI	S/N	0.78	1	19	4H	-	0.10	4H	6	L1107	
DSI 360P	9	29	OOI	16	0.74	1	53	1H	+	0.00	1H	20	S2680	
DSI 360P	9	30	OOI	30	1.04	1	5	2H	-	0.20	2H	10	L1107	
DSI 360P	9	35	OOI	26	0.76	1	171	1H	+	0.10	1H	10	L1107	
DSI 360P	9	39	OOI	18	1.02	1	73	1H	+	0.20	1H	20	S2680	
DSI 360P	9	40	OOI	34	1.59	1	113	1H	-	0.10	1H	15	L1107	
DSI 360P	9	42	OOI	21	0.48	1	5	2H	-	0.20	2H	10	L1107	
DSI 360P			OOI	26	0.80	1	129	1H	+	0.00	1H	10	L1107	
DSI 360P	9	45	OOI	14	0.59	1	88	1H	+	0.00	1H	20	S2680	
DSI 360P	9	50	OOI	12	0.98	1	113	1H	-	0.10	1H	22	S2680	
DSI 360P	9	59	NDD						+	0.00	1H	6	N0942	
DSI 360P	9	63	OOI	14	0.52	1	57	1H	+	0.00	1H	21	N0942	
DSI 360P	9	64	OOI	16	0.56	1	102	1H	-	0.20	1H	21	N0942	
DSI 360P	9	72	OOI	8	0.28	1	137	1H	-	0.20	1H	21	N0942	
DSI 360P	9	74	NDD						+	0.00	1H	21	N0942	
DSI 360P	9	77	OOI	31	0.93	1	55	1H	+	0.00	1H	6	L1107	
DSI 360P	9	79	OOI	35	1.17	1	148	2H	+	0.30	2H	6	L1107	
DSI 360P	9	80	OOI	24	0.57	1	167	2H	+	0.00	2H	6	L1107	
DSI 360P			NDD						+	0.00	1H	6	L1107	
DSI 360P	9	81	OOI	28	0.78	1	15	1H	+	0.00	1H	6	L1107	
DSI 360P	9	83	NDD						+	0.00	2H	6	L1107	
DSI 360P			OOI	23	0.53	1	23	1H	+	0.10	1H	6	L1107	
DSI 360P	9	84	NDD						+	0.00	2H	6	L1107	
DSI 360P	9	86	OOI	14	0.52	1	148	2H	-	0.10	2H	21	N0942	
DSI 360P	9	88	OOI	25	0.72	1	168	2H	+	0.20	2H	10	L1107	
DSI 360P	9	90	NDD						+	0.00	3H	10	L1107	
DSI 360P	9	92	OOI	20	1.26	1	154	2H	+	0.10	2H	21	N0942	
DSI 360P	10	14	OOI	36	1.23	1	45	1H	-	0.10	1H	6	N0942	
DSI 360P	10	17	OOI	19	1.05	1	79	1H	+	0.20	1H	20	S2680	
DSI 360P	10	23	OOI	27	0.86	1	10	1H	+	0.20	1H	10	L1107	
DSI 360P	10	25	NDD						+	0.00	1H	20	S2680	
DSI 360P	10	26	NDD						+	0.00	1H	20	S2680	
DSI 360P	10	28	NDD						+	0.00	1H	20	S2680	
DSI 360P	10	32	NDD						+	0.00	TSH	20	S2680	
DSI 360P	10	39	OOI	11	0.47	1	102	1H	+	0.20	1H	20	S2680	
DSI 360P	10	42	NDD						+	0.00	1H	20	S2680	
DSI 360P	10	49	OOI	12	0.99	1	80	1H	+	0.00	1H	22	S2680	
DSI 360P	10	51	KDD						+	0.00	1H	22	S2680	
DSI 360P	10	58	OOI	16	1.36	1	105	2H	+	0.20	2H	22	S2680	
DSI 360P			OOI	4	0.34	1	92	1H	-	0.10	1H	22	S2680	
DSI 360P	10	59	NDD						+	0.00	1H	21	N0942	
DSI 360P	10	61	NDD						+	0.00	1H	21	N0942	
DSI 360P	10	65	OOI	17	0.68	1	106	1H	-	0.10	1H	21	N0942	
DSI 360P	10	67	OOI	44	1.81	1	53	2H	-	0.10	2H	6	L1107	
DSI 360P			OOI	36	1.20	1	135	1H	-	0.10	1H	6	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	10	68	NDD						+	0.00	1H	6	L1107	
DSI 360P	10	77	NDD						+	0.00	1H	21	N0942	
DSI 360P	11	19	ODI	29	0.83	1	130	1H	-	0.10	1H	6	L1107	
DSI 360P	11	22	NDD						+	0.00	2H	20	S2680	
DSI 360P			NDD						+	0.00	1H	20	S2680	
DSI 360P	11	26	NDD						+	0.00	1H	20	S2680	
DSI 360P	11	29	BLG		4.83	1	9	TSH	+	0.00	TSH	20	S2680	
DSI 360P	11	3?	BLG		6.90	1	30	TSH	-	0.30	TSH	20	S2680	
DSI 360P	11	31	ODI	16	0.70	1	111	1H	+	0.00	1H	20	S2680	
DSI 360P	11	34	ODI	41	1.48	1	109	1H	-	0.10	1H	6	L1107	
DSI 360P	11	36	ODI	31	1.32	1	145	1H	-	0.10	1H	15	L1107	
DSI 360P	11	37	NDD						+	0.00	1H	20	S2680	
DSI 360P	11	38	NDD						+	0.00	2H	20	S2680	
DSI 360P			NDD						+	0.00	1H	20	S2680	
DSI 360P	11	41	ODI	26	0.97	1	103	1H	+	0.00	1H	15	L1107	
DSI 360P	11	43	NDD						+	0.00	1H	20	S2680	
DSI 360P	11	45	ODI	26	0.92	1	38	1H	+	0.00	1H	15	L1107	
DSI 360P	11	47	NDD						+	0.00	1H	20	S2680	
DSI 360P	11	49	NDD						+	0.00	1H	6	N0942	
DSI 360P	11	55	NDD						+	0.00	1H	22	S2680	
DSI 360P	11	59	NDD						+	0.00	1H	6	N0942	
DSI 360P	11	62	NDD						+	0.00	1H	21	N0942	
DSI 360P	12	8	ODI	17	1.60	1	123	2H	+	0.00	2H	22	S2680	
DSI 360P	12	16	NDD						+	0.00	2H	6	N0942	
DSI 360P	12	17	NDD						+	0.00	1H	20	S2680	
DSI 360P	12	22	NDD						+	0.00	2H	6	L1107	
DSI 360P	12	25	NDD						+	0.00	1H	6	L1107	
DSI 360P	12	26	NDD						+	0.00	5H	6	L1107	
DSI 360P	12	29	ODI	26	0.66	1	49	1H	+	0.00	1H	6	L1107	
DSI 360P	12	38	ODI	37	1.83	1	111	1H	+	0.00	1H	15	L1107	
DSI 360P	12	43	ODI	18	0.97	1	106	1H	+	0.10	1H	20	S2680	
DSI 360P	12	51	NDD						+	0.00	1H	22	S2680	
DSI 360P	12	52	ODI	14	1.15	1	101	1H	+	0.00	1H	22	S2680	
DSI 360P	12	56	NDD						+	0.00	1H	22	S2680	
DSI 360P	12	58	ODI	13	0.45	1	119	1H	+	0.20	1H	21	N0942	
DSI 360P	12	59	NDD						+	0.00	1H	21	N0942	
DSI 360P	12	63	ODI	18	0.88	1	73	1H	+	0.10	1H	21	N0942	
DSI 360P	13	60	NDD						+	0.00	1H	6	N0942	
DSI 360P	13	67	NDD						+	0.00	1H	6	L1107	
DSI 360P	13	75	ODI	31	0.92	1	146	1H	-	0.20	1H	6	L1107	
DSI 360P	14	4	ODI	10	0.81	1	90	1H	+	0.00	1H	22	S2680	
DSI 360P	14	14	NDD						+	0.00	1H	20	S2680	
DSI 360P	14	21	ODI	11	0.46	1	89	1H	+	0.00	1H	20	S2680	
DSI 360P	14	30	NDD						+	0.00	2H	10	L1107	
DSI 360P			ODI	28	0.90	1	5	1H	+	0.10	1H	10	L1107	
DSI 360P	14	35	ODI	20	0.36	1	120	1H	+	0.20	1H	6	N0942	
DSI 360P	14	37	NDD						+	0.00	1H	20	S2680	
DSI 360P	14	38	NDD						+	0.00	1H	20	S2680	
DSI 360P	14	42	ODI	26	0.66	1	144	1H	+	0.00	1H	6	N0942	
DSI 360P	14	59	NDD						+	0.00	1H	6	N0942	
DSI 360P	14	61	NDD						+	0.00	1H	21	N0942	
DSI 360P	15	10	NDD						+	0.00	3H	20	S2680	
DSI 360P	15	23	ODI	7	0.62	1	118	1H	+	0.00	1H	22	S2680	
DSI 360P	15	31	ODI	32	1.01	1	21	1H	+	0.00	1H	6	L1107	
DSI 360P	15	56	ODI	30	0.90	1	149	2H	-	0.10	2H	6	N0942	
DSI 360P			ODI	47	1.92	1	111	1H	-	0.40	1H	6	N0942	
DSI 360P	15	61	NDD						+	0.00	1H	6	N0942	
DSI 360P	15	62	NDD						+	0.00	1H	6	N0942	
DSI 360P	15	63	ODI	32	0.99	1	12	1H	+	0.20	1H	6	L1107	
DSI 360P	15	69	NDD						+	0.00	1H	21	N0942	
DSI 360P	16	24	NDD						+	0.00	1H	20	S2680	
DSI 360P	16	26	ODI	36	1.19	1	26	1H	+	0.00	1H	6	L1107	
DSI 360P	16	32	NDD						+	0.00	1H	20	S2680	
DSI 360P	16	55	NDD						+	0.00	1H	6	N0942	
DSI 360P	16	58	NDD						+	0.00	1H	21	N0942	
DSI 360P	16	59	NDD						+	0.00	1H	6	N0942	
DSI 360P	16	60	ODI	28	0.78	1	129	1H	+	0.00	1H	6	N0942	
DSI 360P	16	85	NDD						+	0.00	2H	6	L1107	
DSI 360P	17	9	NDD						+	0.00	1H	20	S2680	
DSI 360P	17	36	NDD						+	0.00	1H	6	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 RES

ALERT: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	17	39	NDD						+	0.00	3H	6	L1107	
DSI 360P	17	43	NDD						+	0.00	1H	6	L1107	
DSI 360P	17	44	NDD						+	0.00	3H	6	L1107	
DSI 360P	17	46	NDD						+	0.00	3H	6	L1107	
DSI 360P	17	58	ODI	36	1.22	1	25	1H	+	0.10	1H	6	L1107	
DSI 360P	17	59	ODI	26	0.70	1	93	2H	+	0.10	2H	6	L1107	
DSI 360P			ODI	54	2.75	1	112	1H	+	0.10	1H	6	L1107	
DSI 360P	17	65	ODI	17	0.80	1	61	1H	+	0.10	1H	21	N0942	
DSI 360P	17	67	NDD						+	0.00	2H	6	L1107	
DSI 360P	17	68	NDD						+	0.00	2H	21	N0942	
DSI 360P	17	81	ODI	31	0.95	1	112	1H	+	0.10	1H	6	L1107	
DSI 360P			ODI	31	0.95	1	45	1H	+	0.10	1H	6	L1107	
DSI 360P	18	31	ODI	29	0.96	1	147	1H	-	0.10	1H	10	L1107	
DSI 360P	18	34	ODI	30	0.90	1	26	1H	+	0.20	1H	6	L1107	
DSI 360P	18	40	ODI	17	0.89	1	71	2H	-	0.10	2H	20	S2680	
DSI 360P			ODI	16	0.66	1	58	1H	+	0.00	1H	20	S2680	
DSI 360P	18	41	NDD						+	0.00	2H	6	L1107	
DSI 360P	18	42	NDD						+	0.00	4H	6	L1107	
DSI 360P			ODI	26	0.70	1	25	1H	+	0.10	1H	6	L1107	
DSI 360P	18	46	NDD						+	0.00	5H	6	L1107	
DSI 360P			NDD						+	0.00	2H	6	L1107	
DSI 360P			ODI	37	1.27	1	17	1H	+	0.20	1H	6	L1107	
DSI 360P	18	58	ODI	34	1.05	1	157	1H	+	0.10	1H	6	L1107	
DSI 360P	18	60	ODI	22	0.34	1	128	1H	-	0.10	1H	6	L1107	
DSI 360P	18	63	ODI	13	0.45	1	42	1H	-	0.20	1H	21	N0942	
DSI 360P	18	67	NDD						+	0.00	1H	6	L1107	
DSI 360P	19	5	NDD						+	0.00	3H	6	N0942	
DSI 360P	19	6	NDD						+	0.00	3H	6	N0942	
DSI 360P	19	14	ODI	32	1.15	1	148	2H	+	0.00	2H	10	L1107	
DSI 360P			ODI	50	2.09	1	123	1H	-	0.20	1H	4	N0942	
DSI 360P	19	24	NDD						+	0.00	1H	21	S2680	
DSI 360P	19	26	ODI	24	0.54	1	159	1H	+	0.00	1H	6	L1107	
DSI 360P	19	28	ODI	32	0.99	1	24	3H	+	0.30	3H	6	L1107	
DSI 360P	19	29	ODI	29	0.81	1	17	3H	+	0.20	3H	6	L1107	
DSI 360P	19	52	ODI	28	0.74	1	15	1H	+	0.20	1H	6	L1107	
DSI 360P	19	55	ODI	34	1.09	1	66	1H	+	0.00	1H	6	L1107	
DSI 360P	19	57	NDD						+	0.00	1H	21	N0942	
DSI 360P	19	61	ODI	16	0.60	1	107	1H	+	0.00	1H	21	N0942	
DSI 360P	19	62	NDD						+	0.00	1H	6	L1107	
DSI 360P	19	63	ODI	26	0.60	1	143	2H	+	0.20	2H	6	L1107	
DSI 360P			ODI	40	1.44	1	124	1H	+	0.00	1H	6	L1107	
DSI 360P	19	66	ODI	9	0.32	1	103	1H	+	0.00	1H	21	N0942	
DSI 360P	19	82	NDD						+	0.00	1H	6	L1107	
DSI 360P	20	19	NDD						+	0.00	2H	20	S2680	
DSI 360P			NDD						+	0.00	1H	20	S2680	
DSI 360P	20	20	NDD						+	0.00	1H	20	S2680	
DSI 360P	20	21	NDD						+	0.00	1H	20	S2680	
DSI 360P	20	24	ODI	27	0.86	1	20	1H	+	0.10	1H	10	L1107	
DSI 360P	20	25	ODI	33	1.02	1	54	3H	+	0.00	3H	6	L1107	
DSI 360P			ODI	32	0.98	1	35	1H	+	0.10	1H	6	L1107	
DSI 360P	20	39	ODI	17	0.79	1	64	1H	-	0.10	1H	20	S2680	
DSI 360P	20	40	NDD						+	0.00	1H	6	L1107	
DSI 360P	20	42	ODI	26	0.78	1	91	1H	+	0.00	1H	10	L1107	
DSI 360P	20	55	ODI	29	0.78	1	46	1H	+	0.20	1H	6	L1107	
DSI 360P	20	60	ODI	27	0.78	1	159	1H	-	0.10	1H	5	L1107	
DSI 360P	20	62	ODI	22	0.48	1	41	1H	+	0.00	1H	5	L1107	
DSI 360P	20	65	NDD						+	0.00	1H	5	L1107	
DSI 360P	20	74	ODI	17	0.82	1	57	1H	-	0.10	1H	21	N0942	
DSI 360P	20	75	NDD						+	0.00	1H	21	N0942	
DSI 360P	20	81	NDD						+	0.00	1H	5	L1107	
DSI 360P	20	85	NDD						+	0.00	1H	21	N0942	
DSI 360P	20	88	NDD						+	0.00	2H	15	L1107	
DSI 360P	21	11	NDD						+	0.00	1H	20	S2680	
DSI 360P	21	47	NDD						+	0.00	2H	20	S2680	
DSI 360P	21	48	ODI	9	0.37	1	99	1H	+	0.00	1H	20	S2680	
DSI 360P	21	54	ODI	25	0.69	1	111	1H	-	0.20	1H	5	L1107	
DSI 360P	21	57	NDD						+	0.00	1H	5	L1107	
DSI 360P	21	59	NDD						+	0.00	1H	5	L1107	
DSI 360P	21	60	NDD						+	0.00	1H	5	L1107	
DSI 360P	21	65	ODI	24	0.64	1	98	1H	+	0.10	1H	5	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	21	67	ODI	31	1.00	1	127	1H	+	0.00	1H	5	L1107	
DSI 360P	21	70	NDD						+	0.00	2H	20	S2680	
DSI 360P	22	24	NDD						+	0.00	1H	21	ND942	
DSI 360P	22	38	ODI	30	1.26	1	35	1H	-	0.10	1H	15	L1107	
DSI 360P	22	45	NDD						+	0.00	1H	20	S2680	
DSI 360P	22	60	ODI	33	1.16	1	152	1H	+	0.10	1H	5	L1107	
DSI 360P	22	68	ODI	25	0.67	1	170	1H	+	0.10	1H	5	L1107	
DSI 360P	22	69	NDD						+	0.00	1H	20	S2680	
DSI 360P	22	72	NDD						+	0.00	1H	20	S2680	
DSI 360P	22	74	ODI	51	2.65	1	54	1H	+	0.00	1H	5	L1107	
DSI 360P	23	29	NDD						+	0.00	2H	20	S2680	
DSI 360P	23	41	ODI	17	0.80	1	134	1H	+	0.00	1H	20	S2680	
DSI 360P	23	85	ODI	39	1.58	1	49	2H	+	0.30	2H	10	L1107	
DSI 360P	24	31	NDD						+	0.00	1H	20	S2680	
DSI 360P	24	34	ODI	17	0.87	1	80	1H	+	0.10	1H	20	S2680	
DSI 360P	24	40	ODI	16	0.69	1	92	2H	+	0.20	2H	20	S2680	
DSI 360P	24	54	NDD						+	0.00	1H	20	S2680	
DSI 360P	24	58	NDD						+	0.00	2H	20	S2680	
DSI 360P	24	72	ODI	27	0.80	1	87	2H	+	0.10	2H	5	L1107	
DSI 360P			ODI	41	1.63	1	111	1H	-	0.20	1H	5	L1107	
DSI 360P	24	74	ODI	24	0.62	1	166	1H	+	0.20	1H	5	L1107	
DSI 360P	24	76	ODI	43	1.76	1	67	1H	+	0.20	1H	5	L1107	
DSI 360P	24	77	ODI	31	1.00	1	77	2H	+	0.10	2H	5	L1107	
DSI 360P	25	8	ODI	8	0.66	1	43	1H	+	0.10	1H	22	S2680	
DSI 360P	25	18	ODI	43	1.69	1	117	2H	+	0.00	2H	6	L1107	
DSI 360P	25	30	ODI	26	0.67	1	157	2H	+	0.20	2H	6	L1107	
DSI 360P			ODI	21	0.41	1	57	1H	+	0.20	1H	6	L1107	
DSI 360P	25	36	NDD						+	0.00	1H	20	S2680	
DSI 360P	25	53	ODI	25	0.67	1	135	1H	-	0.10	1H	5	L1107	
DSI 360P	25	59	NDD						+	0.00	1H	20	S2680	
DSI 360P	25	61	NDD						+	0.00	1H	20	S2680	
DSI 360P	25	64	ODI	21	0.46	1	127	1H	-	0.10	1H	5	L1107	
DSI 360P	25	70	ODI	24	0.63	1	114	2H	+	0.30	2H	5	L1107	
DSI 360P			ODI	38	1.43	1	41	1H	+	0.00	1H	5	L1107	
DSI 360P	25	75	ODI	27	0.81	1	145	2H	+	0.00	2H	5	L1107	
DSI 360P	26	32	ODI	8	0.35	1	68	1H	+	0.00	1H	20	S2680	
DSI 360P	26	35	NDD						+	0.00	1H	6	L1107	
DSI 360P	26	37	NDD						+	0.00	1H	6	L1107	
DSI 360P	26	41	NDD						+	0.00	3H	6	L1107	
DSI 360P			NDD						+	0.00	1H	6	L1107	
DSI 360P	26	54	ODI	27	0.81	1	144	2H	+	0.20	2H	5	L1107	
DSI 360P			ODI	33	1.14	1	101	1H	-	0.20	1H	5	L1107	
DSI 360P	26	55	NDD						+	0.00	1H	5	L1107	
DSI 360P	26	59	ODI	41	1.64	1	122	2H	+	0.10	2H	5	L1107	
DSI 360P			ODI	36	1.34	1	107	1H	+	0.10	1H	5	L1107	
DSI 360P	26	60	NDD						+	0.00	2H	5	L1107	
DSI 360P			NDD						+	0.00	1H	5	L1107	
DSI 360P	26	67	NDD						+	0.00	2H	20	S2680	
DSI 360P	27	17	ODI	10	0.44	1	97	1H	+	0.00	1H	20	S2680	
DSI 360P	27	19	ODI	22	0.46	1	145	2H	+	0.10	2H	6	L1107	
DSI 360P	27	23	NDD						+	0.00	1H	20	S2680	
DSI 360P	27	24	ODI	37	1.25	1	71	2H	+	0.10	2H	6	L1107	
DSI 360P	27	34	ODI	43	1.66	1	68	1H	+	0.20	1H	6	L1107	
DSI 360P	27	35	ODI	32	0.97	1	81	1H	+	0.10	1H	6	L1107	
DSI 360P	27	41	ODI	17	0.84	1	90	1H	+	0.10	1H	20	S2680	
DSI 360P	27	44	ODI	11	0.46	1	44	1H	+	0.00	1H	20	S2680	
DSI 360P	27	51	ODI	31	1.04	1	101	1H	+	0.10	1H	5	L1107	
DSI 360P	27	68	ODI	12	0.49	1	66	1H	+	0.00	1H	20	S2680	
DSI 360P	27	72	ODI	15	0.62	1	74	2H	+	0.20	2H	20	S2680	
DSI 360P	27	74	ODI	38	1.41	1	117	1H	+	0.00	1H	5	L1107	
DSI 360P	28	14	NDD						+	0.00	1H	20	S2680	
DSI 360P	28	17	ODI	17	0.86	1	53	1H	+	0.00	1H	20	S2680	
DSI 360P	28	19	ODI	52	3.26	1	88	2H	+	0.30	2H	10	L1107	
DSI 360P	28	21	ODI	19	1.09	1	81	1H	+	0.00	1H	20	S2680	
DSI 360P	28	26	ODI	47	3.05	1	83	2H	+	0.10	2H	15	L1107	
DSI 360P			ODI	33	1.55	1	78	1H	-	0.10	1H	15	L1107	
DSI 360P	28	41	NDD						+	0.00	1H	20	S2680	
DSI 360P	28	42	NDD						+	0.00	1H	20	S2680	
DSI 360P	28	46	NDD						+	0.00	2H	20	S2680	
DSI 360P	28	49	NDD						+	0.00	1H	20	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	28	59	NDD						+	0.00	1H	5	L1107	
DSI 360P	28	60	ODI	17	0.79	1	62	1H	+	0.20	1H	20	S2680	
DSI 360P	28	70	NDD						+	0.00	2H	20	S2680	
DSI 360P	28	73	ODI	16	0.73	1	92	1H	-	0.10	1H	20	S2680	
DSI 360P	28	74	NDD						+	0.00	2H	5	L1107	
DSI 360P	29	15	NDD						+	0.00	2H	20	S2680	
DSI 360P	29	20	NDD						+	0.00	2H	6	L1107	
DSI 360P	29	24	ODI	26	0.65	1	16	1H	+	0.00	1H	6	L1107	
DSI 360P	29	29	ODI	31	0.97	1	124	1H	+	0.10	1H	6	L1107	
DSI 360P	29	31	ODI	11	0.47	1	100	1H	+	0.00	1H	20	S2680	
DSI 360P	29	53	NDD						+	0.00	1H	20	S2680	
DSI 360P	29	56	ODI	5	0.67	1	160	2H	+	0.00	2H	5	L1107	
DSI 360P			NDD						+	0.00	1H	5	L1107	
DSI 360P	29	57	ODI	33	1.16	1	165	1H	+	0.10	1H	5	L1107	
DSI 360P	29	58	ODI	33	1.53	1	113	2H	+	0.00	2H	15	L1107	
DSI 360P	29	59	ODI	26	0.76	1	165	1H	+	0.20	1H	5	L1107	
DSI 360P	29	63	NDD						+	0.00	2H	20	S2680	
DSI 360P	29	74	NDD						+	0.00	1H	5	L1107	
DSI 360P	30	36	ODI	40	2.07	1	132	1H	+	0.00	1H	15	L1107	
DSI 360P	30	40	NDD						+	0.00	2H	20	S2680	
DSI 360P	30	43	ODI	42	2.22	1	79	1H	+	0.10	1H	15	L1107	
DSI 360P	30	51	ODI	22	0.48	1	101	1H	+	0.10	1H	5	L1107	
DSI 360P	30	62	NDD						+	0.00	1H	5	L1107	
DSI 360P	30	68	NDD						+	0.00	1H	5	L1107	
DSI 360P	30	69	ODI	25	0.70	1	115	2H	+	0.10	2H	5	L1107	
DSI 360P			ODI	26	0.71	1	114	1H	+	0.20	1H	5	L1107	
DSI 360P	30	70	NDD						+	0.00	1H	5	L1107	
DSI 360P	30	74	ODI	24	0.63	1	91	2H	-	0.10	2H	5	L1107	
DSI 360P	30	77	NDD						+	0.00	4H	5	L1107	
DSI 360P	30	81	NDD						+	0.00	4H	10	L1107	
DSI 360P			NDD						+	0.00	3H	10	L1107	
DSI 360P	31	39	ODI	26	0.75	1	9	2H	+	0.20	2H	10	L1107	
DSI 360P	31	42	ODI	31	1.10	1	36	1H	+	0.20	1H	10	L1107	
DSI 360P	31	50	NDD						+	0.00	1H	5	L1107	
DSI 360P	31	52	NDD						+	0.00	1H	5	L1107	
DSI 360P	31	54	NDD						+	0.00	2H	5	L1107	
DSI 360P	31	59	NDD						+	0.00	3H	5	L1107	
DSI 360P	31	62	NDD						+	0.00	7H	5	L1107	
DSI 360P	31	68	ODI	25	0.68	1	25	1H	+	0.10	1H	5	L1107	
DSI 360P	31	72	NDD						+	0.00	1H	5	L1107	
DSI 360P	31	73	ODI	45	2.01	1	120	1H	+	0.10	1H	5	L1107	
DSI 360P	31	78	NDD						+	0.00	3H	5	L1107	
DSI 360P	31	79	NDD						+	0.00	2H	5	L1107	
DSI 360P	32	23	ODI	28	0.89	1	125	1H	+	0.10	1H	10	L1107	
DSI 360P	32	29	ODI	14	0.59	1	53	1H	+	0.00	1H	20	S2680	
DSI 360P	32	30	NDD						+	0.00	1H	20	S2680	
DSI 360P	32	38	ODI	19	1.11	1	63	1H	+	0.30	1H	20	S2680	
DSI 360P	32	45	NDD						+	0.00	1H	20	S2680	
DSI 360P	32	63	ODI	13	0.40	1	132	1H	+	0.10	1H	5	L1107	
DSI 360P	32	67	ODI	41	2.16	1	102	2H	+	0.10	2H	15	L1107	
DSI 360P	32	69	ODI	23	0.84	1	21	1H	+	0.10	1H	5	L1107	
DSI 360P	33	43	ODI	7	0.31	1	74	1H	+	0.00	1H	20	S2680	
DSI 360P	33	57	NDD						+	0.00	2H	20	S2680	
DSI 360P	33	63	ODI	19	0.58	1	21	2H	+	0.00	2H	5	L1107	
DSI 360P	33	64	ODI	21	0.67	1	136	2H	-	0.10	2H	5	L1107	
DSI 360P			ODI	22	0.76	1	40	1H	+	0.00	1H	5	L1107	
DSI 360P	33	65	ODI	24	0.89	1	44	2H	+	0.00	2H	5	L1107	
DSI 360P			ODI	13	0.41	1	46	1H	+	0.10	1H	5	L1107	
DSI 360P	34	24	NDD						+	0.00	1H	22	S2680	
DSI 360P	34	25	ODI	33	1.20	1	166	2H	+	0.00	2H	10	L1107	
DSI 360P			ODI	34	1.10	1	161	2H	+	0.00	2H	6	L1107	
DSI 360P			NDD						+	0.00	1H	6	L1107	
DSI 360P	34	27	NDD						+	0.00	1H	20	S2680	
DSI 360P	34	31	NDD						+	0.00	1H	20	S2680	
DSI 360P	34	37	ODI	45	2.25	1	72	1H	-	0.10	1H	10	L1107	
DSI 360P	35	28	ODI	29	0.98	1	163	1H	+	0.10	1H	10	L1107	
DSI 360P	35	34	NDD						+	0.00	2H	10	L1107	
DSI 360P	35	35	ODI	20	1.22	1	58	1H	-	0.10	1H	20	S2680	
DSI 360P	35	50	NDD						+	0.00	1H	5	L1107	
DSI 360P	35	56	NDD						+	0.00	1H	5	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TES*	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	35	69	OD1	23	0.81	1	31	1H	+ 0.00	1H	5	L1107	
DSI 360P	35	70	NDD						+ 0.00	2H	20	S2680	
DSI 360P	35	73	NDD						+ 0.00	2H	5	L1107	
DSI 360P	36	23	OD1	13	0.54	1	67	3H	+ 0.00	3H	20	S2680	
DSI 360P	36	24	NDD						+ 0.00	1H	20	S2680	
DSI 360P	36	35	OD1	11	0.47	1	113	1H	+ 0.00	1H	20	S2680	
DSI 360P	36	36	NDD						+ 0.00	1H	20	S2680	
DSI 360P	36	55	NDD						+ 0.00	1H	5	L1107	
DSI 360P			NDD						+ 0.00	2H	5	L1107	
DSI 360P	36	58	NDD						+ 0.00	1H	5	L1107	
DSI 360P	36	61	NDD						+ 0.00	1H	5	L1107	
DSI 360P	36	69	OD1	12	0.50	1	72	1H	+ 0.00	1H	20	S2680	
DSI 360P	37	32	OD1	29	0.94	1	4	1H	+ 0.10	1H	10	L1107	
DSI 360P			OD1	33	1.07	1	29	2H	- 0.10	2H	6	L1107	
DSI 360P			OD1	32	1.01	1	21	1H	+ 0.20	1H	6	L1107	
DSI 360P	37	48	NDD						+ 0.00	2H	5	L1107	
DSI 360P	37	54	NDD						+ 0.00	2H	10	L1107	
DSI 360P	37	60	NDD						+ 0.00	2H	5	L1107	
DSI 360P	37	63	NDD						+ 0.00	2H	5	L1107	
DSI 360P	38	36	NDD						+ 0.00	1H	20	S2680	
DSI 360P	38	48	OD1	22	0.80	1	19	1H	+ 0.00	1H	5	L1107	
DSI 360P	38	50	NDD						+ 0.00	1H	5	L1107	
DSI 360P	38	51	NDD						+ 0.00	6H	5	L1107	
DSI 360P	38	53	NDD						+ 0.00	2H	20	S2680	
DSI 360P	38	64	OD1	17	0.78	1	116	3H	+ 0.30	3H	20	S2680	
DSI 360P			NDD						+ 0.00	2H	20	S2680	
DSI 360P	38	68	NDD						+ 0.00	2H	20	S2680	
DSI 360P	38	74	NDD						+ 0.00	1H	20	S2680	
DSI 360P	39	27	NDD						+ 0.00	1H	20	S2680	
DSI 360P	39	39	NDD						+ 0.00	2H	20	S2680	
DSI 360P	39	51	NDD						+ 0.00	2H	20	S2680	
DSI 360P	39	52	NDD						+ 0.00	1H	5	L1107	
DSI 360P	39	59	NDD						+ 0.00	2H	5	L1107	
DSI 360P	39	65	NDD						+ 0.00	1H	5	L1107	
DSI 360P	39	70	NDD						+ 0.00	2H	5	L1107	
DSI 360P	40	53	NDD						+ 0.00	1H	20	S2680	
DSI 360P	43	38	OD1	43	1.69	1	157	1H	+ 0.20	1H	6	L1107	
DSI 360P	45	37	OD1	38	1.31	1	127	2H	+ 0.20	2H	6	L1107	

TOTAL TUBES FOUND = 525
TOTAL INDICATIONS FOUND = 598
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION >= 40% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	2	32	001	43	1.61	1	101	1H	+	0.10	1H	6	ND942	
DSI 360P	3	1	001	41	1.46	1	57	1H	-	0.10	1H	6	ND942	
DSI 360P	3	56	001	69	4.35	1	42	1H	-	0.10	1H	6	ND942	
DSI 360P	3	75	001	50	2.30	1	69	1H	+	0.00	1H	6	L1107	
DSI 360P	3	78	001	42	1.56	1	40	1H	+	0.10	1H	6	L1107	
DSI 360P	4	8	001	40	1.40	1	147	2H	-	0.20	2H	6	ND942	
DSI 360P	4	25	001	41	1.48	1	126	1H	+	0.00	1H	6	ND942	
DSI 360P	4	84	001	46	1.74	1	122	1H	-	0.10	1H	6	L1107	
DSI 360P	6	37	001	42	2.24	1	98	1H	-	0.10	1H	15	L1107	
DSI 360P	7	9	001	41	1.49	1	112	1H	-	0.20	1H	6	ND942	
DSI 360P	7	60	001	44	1.68	1	130	1H	+	0.00	1H	6	ND942	
DSI 360P	8	33	001	41	1.50	1	150	2H	-	0.20	2H	6	ND942	
DSI 360P			001	48	2.15	1	55	1H	+	0.00	1H	6	ND942	
DSI 360P	10	67	001	44	1.81	1	53	2H	-	0.10	2H	6	L1107	
DSI 360P	11	34	001	41	1.48	1	109	1H	-	0.10	1H	6	L1107	
DSI 360P	15	56	001	47	1.92	1	111	1H	-	0.40	1H	6	ND942	
DSI 360P	17	59	001	54	2.75	1	112	1H	+	0.10	1H	6	L1107	
DSI 360P	19	14	001	50	2.09	1	123	1H	-	0.20	1H	6	ND942	
DSI 360P	19	62	001	40	1.44	1	124	1H	+	0.00	1H	6	L1107	
DSI 360P	22	74	001	51	2.65	1	54	1H	+	0.00	1H	5	L1107	
DSI 360P	24	72	001	41	1.63	1	111	1H	-	0.20	1H	5	L1107	
DSI 360P	24	76	001	43	1.76	1	67	1H	+	0.20	1H	5	L1107	
DSI 360P	25	8	001	43	1.69	1	117	2H	+	0.00	2H	6	L1107	
DSI 360P	26	59	001	41	1.64	1	122	2H	+	0.10	2H	5	L1107	
DSI 360P	27	34	001	43	1.66	1	68	1H	+	0.20	1H	6	L1107	
DSI 360P	28	19	001	52	3.26	1	88	2H	+	0.30	2H	10	L1107	
DSI 360P	28	26	001	47	3.05	1	83	2H	+	0.10	2H	15	L1107	
DSI 360P	30	36	001	40	2.07	1	132	1H	+	0.00	1H	15	L1107	
DSI 360P	30	43	001	42	2.22	1	79	1H	+	0.10	1H	15	L1107	
DSI 360P	31	73	001	45	2.01	1	120	1H	+	0.10	1H	5	L1107	
DSI 360P	32	67	001	41	2.16	1	102	2H	+	0.10	2H	15	L1107	
DSI 360P	34	37	001	45	2.25	1	72	1H	-	0.10	1H	10	L1107	
DSI 360P	43	38	001	43	1.69	1	157	1H	+	0.20	1H	6	L1107	

TOTAL TUBES FOUND * 32
TOTAL INDICATIONS FOUND * 33
TOTAL TUBES IN INPUT FILE * 3388

Plant: Beaver Valley Unit [illegible] Steam Generator: A
Tape: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	1	34	001	28	0.90	1	143	1H - 0.10	1H	10	L1107	
DSI 360P	2	29	001	36	1.29	1	142	1H + 0.30	1H	10	L1107	
DSI 360P	2	32	001	36	1.76	1	136	3H + 0.00	3H	15	L1107	
DSI 360P	2	34	001	30	0.88	1	122	1H - 0.10	1H	6	WD942	
DSI 360P	2	63	001	25	0.73	1	124	2H + 0.10	2H	10	L1107	
DSI 360P	2	79	001	38	1.54	1	68	1H - 0.10	1H	10	L1107	
DSI 360P	3	22	[illegible]	28	0.77	1	120	1H - 0.20	1H	6	WD942	
DSI 360P	3	23	001	39	1.98	1	97	2H + 0.00	2H	15	L1107	
DSI 360P	3	27	001	30	1.02	1	5	2H - 0.20	2H	10	L1107	
DSI 360P			001	26	0.81	1	25	1H + 0.20	1H	10	L1107	
DSI 360P	3	31	001	33	1.06	1	73	1H - 3.10	1H	6	WD942	
DSI 360P	3	38	001	37	1.85	1	104	1H + 0.00	1H	15	L1107	
DSI 360P	3	52	001	29	0.80	1	122	1H - 0.10	1H	6	WD942	
DSI 360P	3	71	001	25	0.73	1	140	1H + 0.00	1H	10	L1107	
DSI 360P	3	75	001	36	1.74	1	133	2H + 0.30	2H	15	L1107	
DSI 360P	3	84	001	25	0.60	1	30	1H + 0.10	1H	6	L1107	
DSI 360P	4	13	001	35	1.14	1	97	2H + 0.20	2H	6	WD942	
DSI 360P	4	16	001	26	0.63	1	136	2H + 0.00	2H	6	WD942	
DSI 360P	4	18	001	36	1.20	1	75	1H + 0.10	1H	6	WD942	
DSI 360P	4	27	001	28	0.75	1	44	1H - 0.10	1H	6	WD942	
DSI 360P	4	29	001	36	1.23	1	37	1H + 0.00	1H	6	WD942	
DSI 360P	4	31	001	31	1.08	1	30	1H - 0.10	1H	10	L1107	
DSI 360P			001	32	1.01	1	27	1H - 0.10	1H	6	WD942	
DSI 360P	4	32	001	32	0.90	1	150	1H + 0.00	1H	6	WD942	
DSI 360P	4	34	001	20	0.40	1	114	1H + 0.00	1H	6	WD942	
DSI 360P	4	39	001	32	1.18	1	17	1H + 0.10	1H	10	L1107	
DSI 360P	4	40	001	29	1.18	1	75	3H + 0.00	3H	15	L1107	
DSI 360P			001	29	1.23	1	26	1H - 0.10	1H	15	L1107	
DSI 360P	4	43	001	30	1.26	1	80	3H + 0.10	3H	15	L1107	
DSI 360P	4	44	001	29	0.94	1	12	1H + 0.00	1H	10	L1107	
DSI 360P	4	58	001	35	1.14	1	93	2H - 0.10	2H	6	WD942	
DSI 360P			001	38	1.29	1	114	1H - 0.10	1H	6	WD942	
DSI 360P	4	67	001	31	0.96	1	29	1H + 0.00	1H	6	L1107	
DSI 360P	4	69	001	29	0.81	1	159	2H + 0.20	2H	6	L1107	
DSI 360P	4	81	001	36	1.23	1	127	1H + 0.00	1H	6	L1107	
DSI 360P	5	27	001	33	1.06	1	127	1H + 0.00	1H	6	WD942	
DSI 360P	5	35	001	33	1.19	1	162	1H + 0.10	1H	10	L1107	
DSI 360P	5	36	001	31	1.39	1	102	1H + 0.00	1H	15	L1107	
DSI 360P	5	38	001	28	1.13	1	59	1H + 0.00	1H	15	L1107	
DSI 360P	5	73	001	24	0.57	1	104	1H + 0.00	1H	6	L1107	
DSI 360P	6	4	001	34	1.08	1	60	1H - 0.10	1H	6	WD942	
DSI 360P	6	8	001	21	0.39	1	95	1H - 0.10	1H	6	WD942	
DSI 360P	6	13	001	35	1.36	1	93	1H - 0.10	1H	10	L1107	
DSI 360P	6	26	001	22	0.43	1	17	1H + 0.20	1H	6	WD942	
DSI 360P	6	30	001	36	1.75	1	63	1H + 0.20	1H	15	L1107	
DSI 360P	6	33	001	29	0.81	1	106	1H + 0.00	1H	6	WD942	
DSI 360P	6	37	001	32	1.17	1	9	2H - 0.10	2H	10	L1107	
DSI 360P	6	39	001	28	0.91	1	165	1H - 0.30	1H	10	L1107	
DSI 360P	6	47	001	29	1.17	1	42	1H + 0.10	1H	15	L1107	
DSI 360P	6	60	001	33	1.06	1	143	1H - 0.20	1H	6	WD942	
DSI 360P	6	64	001	34	1.09	1	59	1H - 0.10	1H	6	L1107	
DSI 360P	6	77	001	34	1.11	1	147	1H + 0.10	1H	6	L1107	
DSI 360P	6	81	001	28	0.77	1	143	1H + 0.10	1H	6	L1107	
DSI 360P	7	13	001	32	0.96	1	44	1H - 0.10	1H	6	WD942	
DSI 360P	7	21	001	32	1.18	1	171	1H - 0.10	1H	10	L1107	
DSI 360P			001	24	0.55	1	148	1H + 0.00	1H	6	WD942	
DSI 360P	7	26	001	26	0.97	1	83	1H + 0.00	1H	15	L1107	
DSI 360P	7	34	001	37	1.25	1	35	1H - 0.10	1H	6	WD942	
DSI 360P	7	35	001	30	1.03	1	21	1H + 0.20	1H	10	L1107	
DSI 360P	7	45	001	28	1.13	1	84	2H + 0.00	2H	15	L1107	
DSI 360P	7	47	001	37	1.89	1	100	1H + 0.10	1H	15	L1107	
DSI 360P	7	51	001	21	0.36	1	131	1H + 0.10	1H	6	WD942	
DSI 360P	7	57	001	27	0.73	1	22	1H + 0.00	1H	6	WD942	
DSI 360P	7	63	001	34	1.10	1	22	1H + 0.10	1H	6	L1107	
DSI 360P	7	75	001	28	0.79	1	30	1H + 0.20	1H	6	L1107	
DSI 360P	7	78	001	31	0.92	1	65	1H + 0.00	1H	6	L1107	
DSI 360P	7	79	001	26	0.69	1	34	1H + 0.10	1H	6	L1107	
DSI 360P	8	30	001	26	0.65	1	29	1H + 0.10	1H	6	WD942	
DSI 360P	8	32	001	30	0.88	1	102	1H + 0.20	1H	6	WD942	
DSI 360P	8	33	001	33	1.02	1	73	3H + 0.10	3H	6	WD942	

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

BLIPS: EDDY 360 INDICATIONS DSI EXAMINATION 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	8	37	001	29	0.97	1	24	1H	+	0.00	1H	10	L1107	
DSI 360P	8	81	001	36	1.21	1	28	1H	+	0.00	1H	6	L1107	
DSI 360P	9	23	101	22	0.47	1	[illegible]	[illegible]	+	0.00	[illegible]	6	[illegible]	
DSI 360P	9	26	001	29	0.84	1	163	1H	+	0.10	1H	6	L1107	
DSI 360P	9	30	001	30	1.04	1	5	2H	-	0.20	2H	10	L1107	
DSI 360P	9	35	001	26	0.76	1	171	1H	+	0.10	1H	10	L1107	
DSI 360P	9	40	001	34	1.59	1	113	1H	-	0.10	1H	15	L1107	
DSI 360P	9	42	001	21	0.48	1	5	2H	-	0.20	2H	10	L1107	
DSI 360P			001	26	0.80	1	129	1H	+	0.00	1H	10	L1107	
DSI 360P	9	77	001	31	0.93	1	55	1H	+	0.00	1H	6	L1107	
DSI 360P	9	79	001	35	1.17	1	148	2H	+	0.30	2H	6	L1107	
DSI 360P	9	80	001	24	0.57	1	167	2H	+	0.00	2H	6	L1107	
DSI 360P	9	81	001	28	0.78	1	15	1H	+	0.00	1H	6	L1107	
DSI 360P	9	83	001	23	0.53	1	23	1H	+	0.10	1H	6	L1107	
DSI 360P	9	88	001	25	0.72	1	168	2H	+	0.20	2H	10	L1107	
DSI 360P	9	92	001	20	1.26	1	154	2H	+	0.10	2H	21	ND942	
DSI 360P	10	14	001	36	1.23	1	45	1H	-	0.10	1H	6	ND942	
DSI 360P	10	23	001	27	0.86	1	10	1H	+	0.20	1H	10	L1107	
DSI 360P	10	67	001	36	1.20	1	135	1H	-	0.10	1H	6	L1107	
DSI 360P	11	19	001	29	0.83	1	130	1H	-	0.10	1H	6	L1107	
DSI 360P	11	36	001	31	1.32	1	145	1H	-	0.10	1H	15	L1107	
DSI 360P	11	41	001	26	0.97	1	103	1H	+	0.00	1H	15	L1107	
DSI 360P	11	45	001	26	0.92	1	38	1H	+	0.00	1H	15	L1107	
DSI 360P	12	29	001	26	0.66	1	49	1H	+	0.00	1H	6	L1107	
DSI 360P	12	38	001	37	1.83	1	111	1H	+	0.00	1H	15	L1107	
DSI 360P	13	75	001	31	0.92	1	146	1H	-	0.20	1H	6	L1107	
DSI 360P	14	30	001	28	0.90	1	5	1H	+	0.10	1H	10	L1107	
DSI 360P	14	35	001	20	0.36	1	120	1H	+	0.20	1H	6	ND942	
DSI 360P	14	42	001	26	0.66	1	144	1H	+	0.00	1H	6	ND942	
DSI 360P	15	31	001	32	1.01	1	21	1H	+	0.00	1H	6	L1107	
DSI 360P	15	56	001	30	0.90	1	149	2H	-	0.10	2H	6	ND942	
1 360P	15	63	001	32	0.99	1	12	1H	+	0.20	1H	6	L1107	
1 360P	16	26	001	36	1.19	1	26	1H	+	0.00	1H	6	L1107	
DSI 360P	16	60	001	28	0.73	1	129	1H	+	0.00	1H	6	ND942	
DSI 360P	17	58	001	36	1.22	1	25	1H	+	0.10	1H	6	L1107	
DSI 360P	17	59	001	26	0.70	1	93	2H	+	0.10	2H	6	L1107	
DSI 360P	17	81	001	31	0.95	1	112	1H	+	0.10	1H	6	L1107	
DSI 360P			001	31	0.95	1	45	1H	+	0.10	1H	6	L1107	
DSI 360P	18	31	001	29	0.96	1	147	1H	-	0.10	1H	10	L1107	
DSI 360P	18	34	001	30	0.90	1	26	1H	+	0.20	1H	6	L1107	
DSI 360P	18	42	001	26	0.70	1	25	1H	+	0.10	1H	6	L1107	
DSI 360P	18	46	001	37	1.27	1	17	1H	+	0.20	1H	6	L1107	
DSI 360P	18	58	001	34	1.05	1	157	1H	+	0.10	1H	6	L1107	
DSI 360P	18	60	001	22	0.34	1	128	1H	-	0.10	1H	6	L1107	
DSI 360P	19	14	001	32	1.15	1	148	2H	+	0.00	2H	10	L1107	
DSI 360P	19	26	001	24	0.54	1	159	1H	+	0.00	1H	6	L1107	
DSI 360P	19	28	001	32	0.99	1	24	3H	+	0.30	3H	6	L1107	
DSI 360P	19	29	001	29	0.81	1	17	3H	+	0.20	3H	6	L1107	
DSI 360P	19	52	001	28	0.74	1	15	1H	+	0.20	1H	6	L1107	
DSI 360P	19	55	001	34	1.09	1	66	1H	+	0.00	1H	6	L1107	
DSI 360P	19	63	001	26	0.60	1	143	2H	+	0.20	2H	6	L1107	
DSI 360P	20	24	001	27	0.86	1	20	1H	+	0.10	1H	10	L1107	
DSI 360P	20	25	001	33	1.02	1	54	3H	+	0.00	3H	6	L1107	
DSI 360P			001	32	0.98	1	35	1H	+	0.10	1H	6	L1107	
DSI 360P	20	42	001	26	0.78	1	91	1H	+	0.00	1H	10	L1107	
DSI 360P	20	55	001	29	0.78	1	46	1H	+	0.20	1H	6	L1107	
DSI 360P	20	60	001	27	0.78	1	159	1H	-	0.10	1H	5	L1107	
DSI 360P	20	62	001	22	0.48	1	41	1H	+	0.00	1H	5	L1107	
DSI 360P	21	54	001	25	0.69	1	111	1H	-	0.20	1H	5	L1107	
DSI 360P	21	65	001	24	0.64	1	98	1H	+	0.10	1H	5	L1107	
DSI 360P	21	67	001	31	1.00	1	127	1H	+	0.00	1H	5	L1107	
DSI 360P	22	38	001	30	1.26	1	35	1H	-	0.10	1H	15	L1107	
DSI 360P	22	60	001	33	1.16	1	152	1H	+	0.10	1H	5	L1107	
DSI 360P	22	68	001	25	0.67	1	170	1H	+	0.10	1H	5	L1107	
DSI 360P	23	85	001	39	1.58	1	49	2H	+	0.30	2H	10	L1107	
DSI 360P	24	72	001	27	0.80	1	87	2H	+	0.10	2H	5	L1107	
DSI 360P	24	74	001	24	0.62	1	166	1H	+	0.20	1H	5	L1107	
DSI 360P	24	77	001	31	1.00	1	77	2H	+	0.10	2H	5	L1107	
1 360P	25	30	001	26	0.67	1	157	2H	+	0.20	2H	6	L1107	
1 360P			001	21	0.41	1	57	1H	+	0.20	1H	6	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: 4
Tape: 9/89 RES

QUERY: ECDT-360 INDICATIONS DSI EXAMINATION 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	25	53	001	25	0.67	1	135	1H	- 0.10	1H	5	L1107	
DSI 360P	25	64	001	21	0.46	1	127	1H	- 0.10	1H	5	L1107	
DSI 360P	25	70	001	24	0.63	1	114	2H	* 0.30	2H	5	L1107	
DSI 360P			001	38	1.43	1	41	1H	* 0.00	1H	5	L1107	
DSI 360P	25	75	001	27	0.81	1	145	2H	* 0.00	2H	5	L1107	
DSI 360P	26	54	001	27	0.81	1	144	2H	* 0.20	2H	5	L1107	
DSI 360P			001	33	1.14	1	101	1H	- 0.20	1H	5	L1107	
DSI 360P	26	59	001	36	1.34	1	107	1H	* 0.10	1H	5	L1107	
DSI 360P	27	19	001	22	0.46	1	145	2H	* 0.10	2H	6	L1107	
DSI 360P	27	24	001	37	1.25	1	71	2H	* 0.10	2H	6	L1107	
DSI 360P	27	35	001	32	0.97	1	81	1H	* 0.10	1H	6	L1107	
DSI 360P	27	51	001	31	1.04	1	101	1H	* 0.10	1H	5	L1107	
DSI 360P	27	74	001	38	1.41	1	117	1H	* 0.00	1H	5	L1107	
DSI 360P	28	26	001	33	1.55	1	78	1H	- 0.10	1H	15	L1107	
DSI 360P	29	24	001	26	0.65	1	16	1H	* 0.00	1H	6	L1107	
DSI 360P	29	29	001	31	0.97	1	124	1H	* 0.10	1H	6	L1107	
DSI 360P	29	56	001	25	0.67	1	160	2H	* 0.00	2H	5	L1107	
DSI 360P	29	57	001	33	1.16	1	165	1H	* 0.10	1H	5	L1107	
DSI 360P	29	58	001	33	1.53	1	113	2H	* 0.00	2H	15	L1107	
DSI 360P	29	59	001	26	0.76	1	165	1H	* 0.20	1H	5	L1107	
DSI 360P	30	51	001	22	0.48	1	101	1H	* 0.10	1H	5	L1107	
DSI 360P	30	69	001	25	0.70	1	115	2H	* 0.10	2H	5	L1107	
DSI 360P			001	26	0.71	1	114	1H	* 0.20	1H	5	L1107	
DSI 360P	30	74	001	24	0.63	1	91	2H	- 0.10	2H	5	L1107	
DSI 360P	31	39	001	26	0.75	1	9	2H	* 0.20	2H	10	L1107	
DSI 360P	31	42	001	31	1.10	1	36	1H	* 0.20	1H	10	L1107	
DSI 360P	31	68	001	25	0.68	1	25	1H	* 0.10	1H	5	L1107	
DSI 360P	32	23	001	28	0.89	1	125	1H	* 0.10	1H	10	L1107	
DSI 360P	32	69	001	23	0.84	1	21	1H	* 0.10	1H	5	L1107	
DSI 360P	33	64	001	21	0.67	1	136	2H	- 0.10	2H	5	L1107	
DSI 360P			001	22	0.76	1	40	1H	* 0.00	1H	5	L1107	
DSI 360P	33	65	001	24	0.89	1	44	2H	* 0.00	2H	5	L1107	
DSI 360P	34	25	001	33	1.20	1	166	2H	* 0.00	2H	10	L1107	
DSI 360P			001	34	1.10	1	161	2H	* 0.00	2H	6	L1107	
DSI 360P	35	28	001	29	0.98	1	163	1H	* 0.10	1H	10	L1107	
DSI 360P	35	35	001	20	1.22	1	58	1H	- 0.10	1H	20	82680	
DSI 360P	35	69	001	23	0.81	1	31	1H	* 0.00	1H	5	L1107	
DSI 360P	37	52	001	29	0.94	1	4	1H	* 0.10	1H	10	L1107	
DSI 360P			001	33	1.07	1	29	2H	- 0.10	2H	6	L1107	
DSI 360P			001	32	1.01	1	21	1H	* 0.20	1H	6	L1107	
DSI 360P	38	48	001	22	0.80	1	19	1H	* 0.00	1H	5	L1107	
DSI 360P	45	37	001	38	1.31	1	127	2H	* 0.20	2H	6	L1107	

TOTAL TUBES FOUND * 166
TOTAL INDICATIONS FOUND * 182
TOTAL TUBES IN INPUT FILE * 5388

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: EDY-360 INDICATIONS DSI EXAMINATION < 20% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	1	43	001	17	0.83	1	75	1H	-	0.10	1H	20	S2680	
DSI 360P	2	8	001	13	0.55	1	60	1H	+	0.00	1H	20	S2680	
DSI 360P	2	54	001	16	1.44	1	132	1H	+	0.00	[illegible]	[illegible]	[illegible]	
DSI 360P	3	5	001	19	0.87	1	54	1H	+	0.20	1H	22	S2680	
DSI 360P	3	53	001	13	1.05	1	127	1H	+	0.10	1H	22	S2680	
DSI 360P	3	62	001	15	0.55	1	100	1H	-	0.30	1H	21	ND942	
DSI 360P	5	6	001	9	0.75	1	142	2H	+	0.00	2H	22	S2680	
DSI 360P	5	9	001	16	0.73	1	69	2H	-	0.10	2H	20	S2680	
DSI 360P	5	33	001	16	0.74	1	122	1H	+	0.10	1H	20	S2680	
DSI 360P	5	57	001	12	1.03	1	62	1H	+	0.10	1H	22	S2680	
DSI 360P	5	65	001	16	0.57	1	76	1H	-	0.20	1H	21	ND942	
DSI 360P	6	14	001	17	0.79	1	97	2H	+	0.30	2H	20	S2680	
DSI 360P	6	32	001	14	0.59	1	60	1H	+	0.10	1H	20	S2680	
DSI 360P	6	62	001	14	0.51	1	105	1H	+	0.00	1H	21	ND942	
DSI 360P	7	32	001	17	0.78	1	74	1H	+	0.20	1H	20	S2680	
DSI 360P	7	52	001	13	1.11	1	114	1H	-	0.10	1H	22	S2680	
DSI 360P	7	62	001	17	0.82	1	79	1H	+	0.00	1H	21	ND942	
DSI 360P	8	50	001	16	1.43	1	84	1H	-	0.20	1H	22	S2680	
DSI 360P	8	74	001	16	0.63	1	41	1H	-	0.10	1H	21	ND942	
DSI 360P	8	76	001	17	0.76	1	70	1H	+	0.30	1H	21	ND942	
DSI 360P	8	78	001	17	0.78	1	100	2H	-	0.20	2H	21	ND942	
DSI 360P	9	19	001	16	0.75	1	56	1H	+	0.00	1H	20	S2680	
DSI 360P	9	25	001	17	0.89	1	105	1H	+	0.10	1H	20	S2680	
DSI 360P	9	29	001	16	0.74	1	53	1H	+	0.00	1H	20	S2680	
DSI 360P	9	39	001	18	1.02	1	73	1H	+	0.20	1H	20	S2680	
DSI 360P	9	45	001	14	0.59	1	88	1H	+	0.00	1H	20	S2680	
DSI 360P	9	50	001	12	0.98	1	113	1H	-	0.10	1H	22	S2680	
DSI 360P	9	63	001	14	0.52	1	57	1H	+	0.00	1H	21	ND942	
DSI 360P	9	64	001	16	0.56	1	102	1H	-	0.20	1H	21	ND942	
DSI 360P	9	72	001	8	0.28	1	137	1H	-	0.20	1H	21	ND942	
DSI 360P	9	86	001	14	0.52	1	148	2H	-	0.10	2H	21	ND942	
[illegible] 360P	10	17	001	19	1.05	1	79	1H	+	0.20	1H	20	S2680	
[illegible] 360P	10	39	001	11	0.47	1	102	1H	+	0.20	1H	20	S2680	
DSI 360P	10	49	001	12	0.99	1	80	1H	+	0.00	1H	22	S2680	
DSI 360P	10	58	001	16	1.36	1	105	2H	+	0.20	2H	22	S2680	
DSI 360P			001	4	0.34	1	92	1H	-	0.10	1H	22	S2680	
DSI 360P	10	65	001	17	0.68	1	106	1H	-	0.10	1H	21	ND942	
DSI 360P	11	31	001	16	0.70	1	111	1H	+	0.00	1H	20	S2680	
DSI 360P	12	8	001	17	1.60	1	123	2H	+	0.00	2H	22	S2680	
DSI 360P	12	43	001	18	0.97	1	106	1H	+	0.10	1H	20	S2680	
DSI 360P	12	52	001	14	1.15	1	101	1H	+	0.00	1H	22	S2680	
DSI 360P	12	58	001	13	0.45	1	119	1H	+	0.20	1H	21	ND942	
DSI 360P	12	63	001	18	0.88	1	73	1H	+	0.10	1H	21	ND942	
DSI 360P	14	4	001	10	0.81	1	90	1H	+	0.00	1H	22	S2680	
DSI 360P	14	21	001	11	0.46	1	89	1H	+	0.00	1H	20	S2680	
DSI 360P	15	23	001	7	0.62	1	118	1H	+	0.00	1H	22	S2680	
DSI 360P	17	65	001	17	0.80	1	61	1H	+	0.10	1H	21	ND942	
DSI 360P	18	40	001	17	0.89	1	71	2H	-	0.10	2H	20	S2680	
DSI 360P			001	16	0.66	1	58	1H	+	0.00	1H	20	S2680	
DSI 360P	18	63	001	13	0.45	1	42	1H	-	0.20	1H	21	ND942	
DSI 360P	19	61	001	16	0.60	1	107	1H	+	0.00	1H	21	ND942	
DSI 360P	19	66	001	9	0.32	1	103	1H	+	0.00	1H	21	ND942	
DSI 360P	20	39	001	17	0.79	1	64	1H	-	0.10	1H	20	S2680	
DSI 360P	20	74	001	17	0.82	1	57	1H	-	0.10	1H	21	ND942	
DSI 360P	21	48	001	9	0.37	1	99	1H	+	0.00	1H	20	S2680	
DSI 360P	23	41	001	17	0.80	1	134	1H	+	0.00	1H	20	S2680	
DSI 360P	24	34	001	17	0.87	1	80	1H	+	0.10	1H	20	S2680	
DSI 360P	24	40	001	16	0.69	1	92	2H	+	0.20	2H	20	S2680	
DSI 360P	25	8	001	8	0.66	1	43	1H	+	0.10	1H	22	S2680	
DSI 360P	26	32	001	8	0.35	1	68	1H	+	0.00	1H	20	S2680	
DSI 360P	27	17	001	10	0.44	1	97	1H	+	0.00	1H	20	S2680	
DSI 360P	27	41	001	17	0.84	1	90	1H	+	0.10	1H	20	S2680	
DSI 360P	27	44	001	11	0.46	1	44	1H	+	0.00	1H	20	S2680	
DSI 360P	27	68	001	12	0.49	1	66	1H	+	0.00	1H	20	S2680	
DSI 360P	27	72	001	15	0.62	1	74	2H	+	0.20	2H	20	S2680	
DSI 360P	28	17	001	17	0.86	1	53	1H	+	0.00	1H	20	S2680	
DSI 360P	28	21	001	19	1.09	1	81	1H	+	0.00	1H	20	S2680	
DSI 360P	28	60	001	17	0.79	1	62	1H	+	0.20	1H	20	S2680	
[illegible] 360P	28	73	001	16	0.73	1	92	1H	-	0.10	1H	20	S2680	
[illegible] 360P	29	31	001	11	0.47	1	100	1H	+	0.00	1H	20	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION > 20% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	32	29	ODI	14	0.59	1	53	1H	+ 0.00	1H	20	S2680	
DSI 360P	32	38	ODI	19	1.11	1	63	1H	+ 0.30	1H	20	S2680	
DSI 360P	32	63	ODI	13	0.40	1	132	1H	+ 0.10	1H	5	L1107	
DSI 360P	33	43	ODI	7	0.31	1	74	1H	+ 0.00	1H	20	S2680	
DSI 360P	33	63	ODI	19	0.58	1	21	2H	+ 0.00	2H	5	L1107	
DSI 360P	33	65	ODI	13	0.41	1	46	1H	+ 0.10	1H	5	L1107	
DSI 360P	36	23	ODI	13	0.54	1	67	3H	+ 0.00	3H	20	S2680	
DSI 360P	36	35	ODI	11	0.47	1	113	1H	+ 0.00	1H	20	S2680	
DSI 360P	36	69	ODI	12	0.50	1	72	1H	+ 0.00	1H	20	S2680	
DSI 360P	38	64	GDI	17	0.78	1	116	3H	+ 0.30	3H	20	S2680	

TOTAL TUBES FOUND = 78
TOTAL INDICATIONS FOUND = 80
TOTAL TUBES IN INPUT FILE = 3368

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	1	2	OD1	14	1.29	1	145	1H	+	0.10	1H	11	ND942	
DSI 360P			OD1	17	1.56	1	108	1H	+	0.00	1H	15	L1107	
DSI 360P	1	5	NDD						+	0.00	1H	11	ND942	
DSI 360P			OD1	7	0.54	1	30	1H	+	0.00	1H	15	L1107	
DSI 360P	1	9	OD1	49	3.55	1	82	1H	+	0.00	1H	11	ND942	
DSI 360P	1	19	OD1	40	2.11	1	101	1H	+	0.10	1H	3	L1107	
DSI 360P	1	26	NDD						+	0.00	1H	3	L1107	
DSI 360P			NDD						+	0.00	1H	15	L1107	
DSI 360P	1	50	NDD						+	0.00	2H	11	ND942	
DSI 360P	1	51	NDD						+	0.00	1H	11	ND942	
DSI 360P	1	87	OD1	75	11.79	1	42	TSH	+	0.00	TSH	14	ND942	
DSI 360P	2	1	OD1	6	0.46	1	124	3H	+	0.00	3H	16	L1107	
DSI 360P			OD1	17	1.38	1	93	1H	+	0.00	1H	16	L1107	
DSI 360P	2	2	OD1	10	0.73	1	58	2H	+	0.20	2H	16	L1107	
DSI 360P	2	3	OD1	15	1.35	1	83	2H	-	0.30	2H	11	ND942	
DSI 360P	2	4	OD1	17	1.79	1	104	1H	-	4.90	1H	11	ND942	
DSI 360P	2	6	OD1	17	1.83	1	25	2H	+	0.00	2H	11	ND942	
DSI 360P			OD1	18	1.87	1	52	1H	+	0.00	1H	11	ND942	
DSI 360P	2	14	OD1	18	2.13	1	84	1H	+	0.10	1H	3	L1107	
DSI 360P	2	16	OD1	19	2.45	1	92	1H	+	0.20	1H	3	L1107	
DSI 360P	2	37	OD1	9	1.00	1	72	4H	-	0.10	4H	3	L1107	
DSI 360P			OD1	17	2.09	1	44	2H	-	4.80	2H	3	L1107	
DSI 360P			OD1	44	2.75	1	86	1H	+	0.00	1H	3	L1107	
DSI 360P	2	44	NDD						+	0.00	3H	3	L1107	
DSI 360P			OD1	17	1.88	1	59	1H	+	0.10	1H	3	L1107	
DSI 360P	2	45	OD1	17	2.09	1	101	1H	+	0.20	1H	3	L1107	
DSI 360P	2	50	OD1	10	0.78	1	57	1H	-	0.10	1H	16	L1107	
DSI 360P	2	54	OD1	14	1.10	1	70	1H	-	0.10	1H	16	L1107	
DSI 360P	2	55	OD1	13	1.02	1	28	3H	+	0.00	3H	16	L1107	
DSI 360P			OD1	14	1.06	1	50	2H	+	0.00	2H	16	L1107	
DSI 360P	2	67	OD1	14	1.46	1	79	3H	+	0.20	3H	3	L1107	
DSI 360P			OD1	6	0.61	1	107	2H	+	0.00	2H	3	L1107	
DSI 360P	2	69	OD1	5	0.53	1	85	1H	-	0.10	1H	3	L1107	
DSI 360P	2	71	OD1	10	1.09	1	92	2H	-	0.10	2H	3	L1107	
DSI 360P	2	86	OD1	12	0.97	1	84	4H	-	0.10	4H	15	L1107	
DSI 360P			OD1	12	0.97	1	70	3H	+	0.00	3H	15	L1107	
DSI 360P	3	1	NDD						+	0.00	1H	11	L1107	
DSI 360P	3	2	OD1	9	0.85	1	83	1H	+	0.00	1H	11	L1107	
DSI 360P	3	3	OD1	13	1.13	1	61	1H	+	0.20	1H	11	L1107	
DSI 360P	3	4	OD1	16	1.46	1	48	1H	+	0.10	1H	11	L1107	
DSI 360P	3	8	NDD						+	0.00	2H	22	L1107	
DSI 360P	3	10	OD1	10	0.92	1	68	2H	+	0.00	2H	11	ND942	
DSI 360P	3	13	OD1	13	1.36	1	105	2H	+	0.00	2H	3	L1107	
DSI 360P			OD1	27	0.99	1	146	1H	+	0.10	1H	3	L1107	
DSI 360P	3	14	OD1	5	0.53	1	127	2H	-	0.10	2H	3	L1107	
DSI 360P			OD1	31	1.88	1	41	1H	+	0.00	1H	3	L1107	
DSI 360P	3	15	OD1	12	0.64	1	31	1H	-	0.10	1H	22	L1107	
DSI 360P	3	17	OD1	35	2.14	1	62	2H	+	0.00	2H	3	L1107	
DSI 360P			OD1	34	1.56	1	69	1H	+	0.10	1H	3	L1107	
DSI 360P	3	22	NDD						+	0.00	1H	3	L1107	
DSI 360P	3	25	OD1	12	1.00	1	122	1H	+	0.00	1H	15	L1107	
DSI 360P	3	26	OD1	16	1.76	1	141	1H	+	0.00	1H	3	L1107	
DSI 360P	3	30	OD1	18	2.14	1	62	1H	-	0.10	1H	3	L1107	
DSI 360P	3	33	OD1	17	2.00	1	78	2H	+	0.00	2H	3	L1107	
DSI 360P			OD1	9	0.88	1	67	1H	+	0.00	1H	3	L1107	
DSI 360P	3	36	OD1	12	1.29	1	60	1H	+	0.00	1H	3	L1107	
DSI 360P	3	48	NDD						+	0.00	1H	22	L1107	
DSI 360P	3	53	NDD						+	0.00	1H	22	L1107	
DSI 360P	3	59	OD1	17	1.03	1	105	1H	+	0.00	1H	22	L1107	
DSI 360P	3	64	OD1	8	0.89	1	50	3H	+	0.10	3H	3	L1107	
DSI 360P	3	73	OD1	16	0.84	1	21	3H	+	0.20	3H	22	L1107	
DSI 360P	3	75	OD1	16	1.69	1	115	3H	-	0.10	3H	3	L1107	
DSI 360P	4	2	NDD						+	0.00	3H	11	L1107	
DSI 360P			OD1	8	0.73	1	118	2H	-	5.50	2H	11	L1107	
DSI 360P	4	4	OD1	18	1.99	1	96	3H	+	0.10	3H	11	L1107	
DSI 360P			NDD						+	0.00	2H	11	L1107	
DSI 360P	4	7	OD1	11	1.02	1	54	1H	-	0.10	1H	11	L1107	
DSI 360P	4	11	OD1	15	1.63	1	142	1H	+	0.00	1H	3	L1107	
DSI 360P	4	14	OD1	8	0.89	1	21	1H	+	0.10	1H	3	L1107	
DSI 360P	4	15	NDD						+	0.00	1H	3	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	4	17	ODI	15	0.79	1	161	2H	-	0.10	2H	22	L1107	
DSI 360P	4	18	ODI	10	1.04	1	73	2H	+	0.00	2H	3	L1107	
DSI 360P	4	19	ODI	16	1.82	1	25	2H	+	0.10	2H	3	L1107	
DSI 360P			NDD						+	0.00	1H	3	L1107	
DSI 360P	4	21	ODI	13	1.40	1	111	1H	+	0.10	1H	3	L1107	
DSI 360P	4	47	ODI	11	0.58	1	157	1H	+	0.00	1H	22	L1107	
DSI 360P	4	48	NDD						+	0.00	1H	22	L1107	
DSI 360P	4	57	NDD						+	0.00	1H	11	N0942	
DSI 360P	4	70	ODI	14	1.12	1	79	1H	-	0.20	1H	15	L1107	
DSI 360P	4	76	ODI	15	1.57	1	77	1H	+	0.00	1H	3	L1107	
DSI 360P	5	2	NDD						+	0.00	3H	11	L1107	
DSI 360P	5	7	ODI	41	2.14	1	126	2H	+	0.00	2H	11	L1107	
DSI 360P			ODI	41	2.64	1	50	1H	+	0.10	1H	11	L1107	
DSI 360P	5	11	ODI	16	0.91	1	85	1H	+	0.00	1H	22	L1107	
DSI 360P	5	19	ODI	10	1.11	1	19	3H	+	0.10	3H	3	L1107	
DSI 360P			ODI	18	2.29	1	50	1H	+	0.00	1H	3	L1107	
DSI 360P	5	36	ODI	20	2.75	1	122	2H	+	0.00	2H	3	L1107	
DSI 360P	5	58	ODI	16	1.44	1	105	1H	+	0.00	1H	11	N0942	
DSI 360P	5	59	ODI	14	1.27	1	85	1H	+	0.10	1H	11	N0942	
DSI 360P			ODI	13	1.05	1	37	1H	+	0.00	1H	15	L1107	
DSI 360P	5	69	ODI	17	1.95	1	123	1H	+	0.00	1H	3	L1107	
DSI 360P	6	10	ODI	38	2.36	1	113	2H	-	0.10	2H	11	L1107	
DSI 360P			ODI	41	2.08	1	99	1H	+	0.10	1H	11	L1107	
DSI 360P	6	11	ODI	7	0.38	1	30	1H	+	0.00	1H	22	L1107	
DSI 360P	6	12	ODI	9	0.49	1	48	1H	+	0.10	1H	22	L1107	
DSI 360P			NDD						+	0.00	3H	22	L1107	
DSI 360P			NDD						+	0.00	2H	22	L1107	
DSI 360P	6	15	ODI	38	2.38	1	107	1H	+	0.10	1H	3	L1107	
DSI 360P	6	18	ODI	9	0.92	1	132	2H	+	0.00	2H	3	L1107	
DSI 360P			ODI	7	0.72	1	40	1H	+	0.00	1H	3	L1107	
DSI 360P	6	27	ODI	8	0.84	1	108	2H	+	0.10	2H	3	L1107	
DSI 360P			ODI	35	2.16	1	88	1H	-	0.10	1H	3	L1107	
DSI 360P	6	28	ODI	14	1.55	1	145	1H	+	0.00	1H	3	L1107	
DSI 360P	7	3	ODI	16	1.41	1	80	1H	+	2.30	1H	11	L1107	
DSI 360P			ODI	17	1.66	1	85	1H	+	0.10	1H	11	L1107	
DSI 360P	7	7	ODI	11	0.95	1	114	2H	-	0.10	2H	11	L1107	
DSI 360P			ODI	8	0.73	1	106	1H	+	0.00	1H	11	L1107	
DSI 360P	7	14	ODI	17	0.96	1	20	2H	+	0.00	2H	22	L1107	
DSI 360P			ODI	16	0.90	1	36	2H	+	0.00	2H	22	L1107	
DSI 360P	7	16	ODI	13	0.66	1	87	1H	-	4.00	1H	22	L1107	
DSI 360P	7	19	ODI	13	1.46	1	110	1H	+	0.00	1H	3	L1107	
DSI 360P	7	22	ODI	10	0.81	1	159	1H	+	0.10	1H	15	L1107	
DSI 360P	7	25	ODI	12	1.01	1	92	1H	-	0.10	1H	15	L1107	
DSI 360P	7	27	ODI	13	1.36	1	150	1H	-	0.10	1H	3	L1107	
DSI 360P	7	39	ODI	8	0.91	1	31	3H	+	0.10	3H	3	L1107	
DSI 360P			ODI	16	1.74	1	123	1H	+	0.00	1H	3	L1107	
DSI 360P	7	43	ODI	19	2.51	1	82	1H	+	0.10	1H	3	L1107	
DSI 360P	7	59	ODI	9	0.84	1	52	1H	+	0.00	1H	11	N0942	
DSI 360P	7	64	ODI	16	1.43	1	77	1H	-	0.10	1H	11	N0942	
DSI 360P			ODI	16	1.41	1	63	1H	+	0.20	1H	15	L1107	
DSI 360P	7	69	ODI	11	1.02	1	138	1H	-	0.10	1H	11	N0942	
DSI 360P			ODI	12	0.98	1	117	1H	-	0.10	1H	15	L1107	
DSI 360P	7	74	NDD						+	0.00	1H	11	N0942	
DSI 360P			ODI	9	0.76	1	44	1H	-	0.10	1H	15	L1107	
DSI 360P	7	81	NDD						+	0.00	1H	3	L1107	
DSI 360P	8	37	NDD						+	0.00	1H	3	L1107	
DSI 360P	9	7	ODI	30	1.76	1	98	1H	+	0.10	1H	11	L1107	
DSI 360P	9	8	ODI	10	0.87	1	90	1H	-	0.10	1H	11	N0942	
DSI 360P			ODI	9	0.73	1	57	1H	+	0.10	1H	15	L1107	
DSI 360P	9	31	ODI	9	0.76	1	119	1H	-	0.10	1H	15	L1107	
DSI 360P	9	43	ODI	32	1.95	1	90	1H	+	0.00	1H	3	L1107	
DSI 360P	9	48	ODI	9	1.02	1	83	2H	+	0.20	2H	3	L1107	
DSI 360P			ODI	10	1.12	1	76	1H	+	0.00	1H	3	L1107	
DSI 360P	9	52	ODI	8	0.73	1	43	1H	+	0.10	1H	11	N0942	
DSI 360P	9	53	ODI	16	1.42	1	113	1H	+	0.10	1H	11	N0942	
DSI 360P	9	57	NDD						+	0.00	2H	11	N0942	
DSI 360P	9	59	ODI	10	0.92	1	79	1H	+	0.20	1H	11	N0942	
DSI 360P	9	69	ODI	12	1.30	1	86	2H	+	0.00	2H	3	L1107	
DSI 360P			NDD						+	0.00	1H	3	L1107	
DSI 360P	9	71	ODI	12	1.12	1	112	1H	+	0.00	1H	11	N0942	

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P			ODI	10	0.89	1	70	2H	+ 0.10	2H	11	ND942	
DSI 360P			ODI	10	0.83	1	76	2H	+ 0.10	2H	15	L1107	
DSI 360P			ODI	16	1.34	1	118	1H	+ 0.10	1H	[illegible]	L1107	
DSI 360P	9	72	ODI	10	1.05	1	51	1H	+ 0.00	1H	3	L1107	
DSI 360P	9	73	NDD						+ 0.00	1H	3	L1107	
DSI 360P	9	75	ODI	6	0.67	1	102	1H	+ 0.00	1H	3	L1107	
DSI 360P	9	77	ODI	10	1.13	1	78	1H	+ 0.10	1H	3	L1107	
DSI 360P			ODI	13	0.69	1	25	2H	- 0.10	2H	24	L1107	
DSI 360P			ODI	15	0.78	1	124	1H	+ 0.00	1H	24	L1107	
DSI 360P	9	78	ODI	12	1.04	1	57	1H	+ 0.20	1H	11	ND942	
DSI 360P			ODI	17	1.59	1	137	1H	+ 0.20	1H	15	L1107	
DSI 360P	9	80	ODI	13	1.18	1	68	1H	+ 0.20	1H	11	ND942	
DSI 360P			ODI	13	1.03	1	79	1H	+ 0.10	1H	15	L1107	
DSI 360P	10	13	ODI	17	1.37	1	71	1H	+ 0.10	1H	16	L1107	
DSI 360P	10	58	ODI	55	4.60	1	82	1H	+ 0.10	1H	11	ND942	
DSI 360P	10	59	NDD						+ 0.00	2H	11	ND942	
DSI 360P			NDD						+ 0.00	1H	11	ND942	
DSI 360P	10	60	NDD						+ 0.00	3H	5	L1107	
DSI 360P	10	66	NDD						+ 0.00	1H	3	L1107	
DSI 360P	10	73	NDD						+ 0.00	2H	11	ND942	
DSI 360P			NDD						+ 0.00	2H	15	L1107	
DSI 360P	10	77	ODI	16	1.81	1	59	1H	+ 0.10	1H	3	L1107	
DSI 360P	10	93	ODI	18	1.18	1	136	1H	- 0.20	1H	22	L1107	
DSI 360P	11	11	ODI	11	1.19	1	67	2H	+ 0.00	2H	3	L1107	
DSI 360P	11	13	ODI	13	1.00	1	60	1H	+ 0.00	1H	16	L1107	
DSI 360P	11	20	ODI	15	1.14	1	59	1H	+ 0.00	1H	16	L1107	
DSI 360P	11	23	ODI	15	1.16	1	62	1H	+ 0.00	1H	16	L1107	
DSI 360P	11	26	ODI	12	1.27	1	106	2H	+ 0.10	2H	3	L1107	
DSI 360P	11	30	ODI	15	1.58	1	46	2H	+ 0.10	2H	3	L1107	
DSI 360P			ODI	42	2.88	1	91	1H	+ 0.10	1H	3	L1107	
DSI 360P	11	58	NDD						+ 0.00	1H	11	ND942	
DSI 360P	11	85	ODI	8	0.89	1	90	2H	- 0.10	2H	3	L1107	
DSI 360P			ODI	7	0.79	1	92	2H	- 0.10	2H	3	L1107	
DSI 360P	12	8	ODI	11	0.98	1	100	1H	+ 0.00	1H	11	L1107	
DSI 360P	12	10	ODI	41	2.08	1	100	1H	+ 0.10	1H	11	L1107	
DSI 360P	12	13	ODI	35	2.13	1	113	2H	- 0.10	2H	3	L1107	
DSI 360P	12	14	ODI	8	0.91	1	125	3H	+ 0.10	3H	3	L1107	
DSI 360P			ODI	11	1.22	1	30	2H	+ 0.10	2H	3	L1107	
DSI 360P			ODI	11	1.16	1	158	1H	+ 0.30	1H	3	L1107	
DSI 360P	12	16	ODI	13	1.45	1	25	2H	+ 0.30	2H	3	L1107	
DSI 360P	12	17	NDD						+ 0.00	3H	3	L1107	
DSI 360P			ODI	11	1.17	1	28	1H	+ 0.00	1H	3	L1107	
DSI 360P			NDD						+ 0.00	3H	7	ND942	
DSI 360P			NDD						+ 0.00	1H	[illegible]	ND942	
DSI 360P	12	18	ODI	27	1.53	1	65	1H	+ 0.10	1H	5	L1107	
DSI 360P	12	22	ODI	8	0.63	1	76	1H	- 0.10	1H	16	L1107	
DSI 360P	12	23	ODI	16	1.79	1	76	1H	+ 0.00	1H	3	L1107	
DSI 360P	12	40	NDD						+ 0.00	1H	3	L1107	
DSI 360P	12	73	ODI	18	2.17	1	96	1H	+ 0.20	1H	3	L1107	
DSI 360P	13	26	ODI	28	1.17	1	113	1H	- 0.10	1H	22	L1107	
DSI 360P	13	27	ODI	21	0.61	1	97	2H	+ 0.00	2H	22	L1107	
DSI 360P	13	33	ODI	6	0.62	1	159	1H	- 0.10	1H	3	L1107	
DSI 360P	13	40	ODI	18	2.12	1	82	1H	- 0.10	1H	3	L1107	
DSI 360P	13	49	NDD						+ 0.00	1H	11	ND942	
DSI 360P	13	92	ODI	20	1.49	1	139	1H	+ 0.10	1H	22	L1107	
DSI 360P	14	5	ODI	18	2.12	1	67	1H	+ 0.10	1H	11	L1107	
DSI 360P	14	9	ODI	38	1.84	1	98	1H	- 0.10	1H	5	L1107	
DSI 360P	14	65	NDD						+ 0.00	1H	11	ND942	
DSI 360P			NDD						+ 0.00	1H	15	L1107	
DSI 360P	14	68	ODI	15	0.92	1	155	1H	+ 0.10	1H	3	L1107	
DSI 360P	14	79	ODI	13	1.20	1	54	1H	+ 0.00	1H	11	ND942	
DSI 360P	14	90	NDD						+ 0.00	1H	3	L1107	
DSI 360P	15	8	ODI	40	1.94	1	58	1H	+ 0.00	1H	5	L1107	
DSI 360P	15	16	ODI	12	0.65	1	36	1H	+ 0.10	1H	22	L1107	
DSI 360P	15	26	ODI	28	1.17	1	81	1H	+ 0.00	1H	22	L1107	
DSI 360P	15	30	NDD						+ 0.00	1H	3	L1107	
DSI 360P	15	52	ODI	32	5.07	1	59	1H	+ 0.30	1H	5	L1107	
DSI 360P			ODI	26	3.47	1	62	1H	- 0.80	1H	5	L1107	
DSI 360P			ODI	22	2.51	1	54	1H	- 2.00	1H	5	L1107	
DSI 360P			PVN		8.28	1	71	1H	+ 1.10	1H	7	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	15	62	ODI	18	1.64	1	103	1H	+	0.00	1H	5	L1107	
DSI 360P	15	83	NDD						+	0.00	1H	3	L1107	
DSI 360P	16	12	ODI	11	0.60	1	32	3H	+	0.20	3H	26	L1107	
DSI 360P			ODI	11	0.56	1	13	2H	+	0.00	2H	26	L1107	
DSI 360P	16	19	ODI	41	2.64	1	89	1H	-	0.10	1H	3	L1107	
DSI 360P	16	27	ODI	26	1.02	1	104	1H	+	0.00	1H	22	L1107	
DSI 360P	16	34	ODI	13	1.38	1	36	2H	+	0.00	2H	3	L1107	
DSI 360P	16	37	ODI	25	0.94	1	76	1H	+	0.00	1H	22	L1107	
DSI 360P	16	48	ODI	14	0.76	1	28	1H	+	0.20	1H	22	L1107	
DSI 360P	16	50	ODI	17	1.60	1	76	1H	+	0.10	1H	5	L1107	
DSI 360P	16	59	NDD						+	0.00	1H	5	L1107	
DSI 360P	16	82	PVN		56.36	1	67	1H	+	0.00	1H	7	ND942	
DSI 360P	17	11	ODI	21	3.02	1	85	1H	+	0.00	1H	3	L1107	
DSI 360P	17	12	ODI	10	1.05	1	25	1H	+	0.10	1H	3	L1107	
DSI 360P	17	14	ODI	31	1.43	1	92	1H	+	0.00	1H	22	L1107	
DSI 360P	17	19	ODI	17	2.06	1	119	2H	+	0.00	2H	3	L1107	
DSI 360P	17	27	ODI	15	1.57	1	65	1H	+	0.10	1H	3	L1107	
DSI 360P	17	34	ODI	29	1.25	1	112	3H	-	0.20	3H	22	L1107	
DSI 360P	17	39	NDD						+	0.00	1H	22	L1107	
DSI 360P	17	44	ODI	22	0.62	1	94	1H	+	0.30	1H	22	L1107	
DSI 360P	17	53	ODI	24	3.69	1	103	1H	+	0.10	1H	3	L1107	
DSI 360P	17	59	ODI	16	1.82	1	81	1H	+	0.00	1H	3	L1107	
DSI 360P	17	65	ODI	10	1.10	1	81	1H	-	0.10	1H	3	L1107	
DSI 360P	17	74	ODI	15	1.66	1	89	1H	+	0.00	1H	3	L1107	
DSI 360P	18	13	ODI	10	1.08	1	67	2H	+	0.00	2H	3	L1107	
DSI 360P	18	29	ODI	25	0.89	1	46	1H	-	4.90	1H	22	L1107	
DSI 360P	18	32	NDD						+	0.00	1H	22	L1107	
DSI 360P	18	35	NDD						+	0.00	1H	3	L1107	
DSI 360P	18	47	ODI	8	0.86	1	124	1H	-	0.10	1H	3	L1107	
DSI 360P	18	48	ODI	7	0.78	1	130	1H	+	0.10	1H	3	L1107	
DSI 360P	18	57	ODI	18	1.92	1	112	2H	+	0.00	2H	11	ND942	
DSI 360P	18	62	ODI	13	1.36	1	100	1H	+	0.10	1H	3	L1107	
DSI 360P	18	66	ODI	8	0.71	1	94	1H	+	0.00	1H	11	ND942	
DSI 360P	19	10	NDD						+	0.00	1H	5	L1107	
DSI 360P	19	18	ODI	11	0.87	1	105	1H	-	0.30	1H	15	L1107	
DSI 360P	19	21	NDD						+	0.00	3H	15	L1107	
DSI 360P			ODI	12	1.01	1	139	1H	+	0.00	1H	15	L1107	
DSI 360P	19	29	NDD						+	0.00	2H	3	L1107	
DSI 360P	19	34	NDD						+	0.00	1H	3	L1107	
DSI 360P	19	39	ODI	7	0.73	1	17	1H	+	0.00	1H	3	L1107	
DSI 360P	19	45	NDD						+	0.00	3H	3	L1107	
DSI 360P			NDD						+	0.00	1H	3	L1107	
DSI 360P	19	56	NDD						+	0.00	2H	11	ND942	
DSI 360P	20	11	ODI	12	0.97	1	76	1H	+	0.10	1H	15	L1107	
DSI 360P	20	24	ODI	14	1.50	1	54	1H	+	0.00	1H	3	L1107	
DSI 360P	20	26	ODI	9	0.69	1	62	1H	+	0.00	1H	15	L1107	
DSI 360P	20	41	ODI	9	0.73	1	49	1H	-	0.10	1H	15	L1107	
DSI 360P	20	58	ODI	10	0.86	1	89	1H	-	0.10	1H	11	ND942	
DSI 360P	21	10	ODI	38	1.81	1	82	1H	+	0.10	1H	5	L1107	
DSI 360P	21	29	NDD						+	0.00	1H	15	L1107	
DSI 360P	21	59	ODI	13	0.71	1	152	3H	-	0.20	3H	22	L1107	
DSI 360P			ODI	13	0.68	1	28	1H	+	0.10	1H	22	L1107	
DSI 360P	21	66	ODI	12	1.30	1	71	1H	+	0.10	1H	3	L1107	
DSI 360P	21	75	NDD						+	0.00	1H	11	ND942	
DSI 360P	21	89	NDD						+	0.00	1H	3	L1107	
DSI 360P	22	22	ODI	13	1.06	1	31	1H	-	0.10	1H	15	L1107	
DSI 360P	22	23	ODI	4	0.48	1	85	1H	+	0.00	1H	3	L1107	
DSI 360P	22	34	ODI	20	2.65	1	123	1H	+	0.10	1H	3	L1107	
DSI 360P	22	70	ODI	11	1.24	1	113	2H	+	0.10	2H	3	L1107	
DSI 360P			ODI	12	1.00	1	71	2H	+	0.10	2H	5	L1107	
DSI 360P	22	75	ODI	17	1.81	1	92	1H	+	0.20	1H	11	ND942	
DSI 360P	23	17	PVN		14.50	1	38	7H	+	3.40	7H	15	L1107	
DSI 360P	23	51	NDD						+	0.00	1H	3	L1107	
DSI 360P	23	66	NDD						+	0.00	1H	11	ND942	
DSI 360P	23	68	NDD						+	0.00	3H	5	L1107	
DSI 360P	24	17	ODI	9	0.75	1	111	1H	+	0.10	1H	15	L1107	
DSI 360P	24	22	ODI	11	0.90	1	58	1H	+	0.10	1H	15	L1107	
DSI 360P	24	36	ODI	10	0.83	1	125	1H	+	0.00	1H	15	L1107	
DSI 360P	24	40	NDD						+	0.00	1H	15	L1107	
DSI 360P	24	41	NDD						+	0.00	1H	3	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: B
tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	24	50	NDD					+	0.00		1H	3	L1107	
DSI 360P	24	53	NDD					+	0.00		1H	3	L1107	
DSI 360P	24	54	NDD					+	0.00		1H	3	L1107	
DSI 360P	24	55	NDD					+	0.00		1H	3	L1107	
DSI 360P	24	56	NDD					+	0.00		2H	3	L1107	
DSI 360P	24	57	NDD					+	0.00		1H	3	L1107	
DSI 360P	25	16	NDD					+	0.00		1H	3	L1107	
DSI 360P	25	19	QDI	35	2.16	1	53	1H +	0.10		1H	3	L1107	
DSI 360P	25	22	NDD					+	0.00		1H	22	L1107	
DSI 360P	25	69	NDD					+	0.00		1H	3	L1107	
DSI 360P	25	70	NDD					+	0.00		1H	3	L1107	
DSI 360P	27	68	NDD					+	0.00		3H	3	L1107	
DSI 360P			NDD					+	0.00		2H	3	L1107	
DSI 360P			NDD					+	0.00		1H	3	L1107	
DSI 360P	28	13	NDD					+	0.00		6H	3	L1107	
DSI 360P	28	50	NDD					+	0.00		1H	3	L1107	
DSI 360P	28	53	NDD					+	0.00		1H	3	L1107	
DSI 360P	28	57	QDI	6	0.69	1	159	1H +	0.00		1H	3	L1107	
DSI 360P	29	12	QDI	19	2.39	1	138	1H +	0.20		1H	3	L1107	
DSI 360P	30	13	QDI	24	3.82	1	102	1H +	0.20		1H	3	L1107	
DSI 360P	30	35	NDD					+	0.00		1H	3	L1107	
DSI 360P	30	62	NDD					+	0.00		1H	3	L1107	
DSI 360P	30	63	NDD					+	0.00		1H	3	L1107	
DSI 360P	31	34	QDI	14	1.51	1	88	1H +	0.10		1H	3	L1107	
DSI 360P	31	35	NDD					+	0.00		2H	3	L1107	
DSI 360P			QDI	6	0.60	1	105	1H +	0.10		1H	3	L1107	
DSI 360P	31	36	QDI	11	1.19	1	81	1H +	0.10		1H	3	L1107	
DSI 360P	31	50	NDD					+	0.00		1H	3	L1107	
DSI 360P	31	62	NDD					+	0.00		1H	3	L1107	
DSI 360P	31	73	NDD					+	0.00		1H	3	L1107	
DSI 360P	32	71	NDD					+	0.00		1H	3	L1107	
DSI 360P	32	72	NDD					+	0.00		6H	3	L1107	
DSI 360P	32	75	NDD					+	0.00		1H	3	L1107	
DSI 360P	33	18	QDI	20	2.27	1	84	1H +	0.30		1H	15	L1107	
DSI 360P	33	35	QDI	7	0.75	1	149	1H +	0.00		1H	3	L1107	
DSI 360P	33	36	NDD					+	0.00		1H	3	L1107	
DSI 360P	33	39	QDI	7	0.72	1	115	1H +	0.10		1H	3	L1107	
DSI 360P	33	46	NDD					+	0.00		1H	15	L1107	
DSI 360P	33	48	QDI	7	0.79	1	61	1H +	0.00		1H	3	L1107	
DSI 360P	33	50	NDD					+	0.00		5H	3	L1107	
DSI 360P	33	52	QDI	16	1.70	1	50	2H +	0.00		2H	3	L1107	
DSI 360P			QDI	17	1.87	1	61	1H +	0.10		1H	3	L1107	
DSI 360P	33	76	NDD					+	0.00		1H	3	L1107	
DSI 360P	34	37	QDI	12	0.98	1	134	2H +	0.30		2H	15	L1107	
DSI 360P	34	39	QDI	13	1.42	1	132	2H +	0.10		2H	3	L1107	
DSI 360P	34	40	QDI	41	2.59	1	96	1H +	0.20		1H	3	L1107	
DSI 360P	34	54	NDD					+	0.00		1H	3	L1107	
DSI 360P	34	65	NDD					+	0.00		2H	3	L1107	
DSI 360P	35	19	QDI	20	2.22	1	79	1H +	0.30		1H	15	L1107	
DSI 360P	35	31	QDI	17	1.94	1	77	3H +	0.10		3H	3	L1107	
DSI 360P			QDI	18	2.13	1	74	1H +	0.20		1H	3	L1107	
DSI 360P	35	33	QDI	18	2.25	1	71	1H +	0.20		1H	3	L1107	
DSI 360P	35	54	NDD					+	0.00		1H	3	L1107	
DSI 360P	35	62	QDI	14	1.25	1	69	1H +	0.10		1H	11	N0942	
DSI 360P	36	21	QDI	21	2.47	1	103	1H +	0.30		1H	15	L1107	
DSI 360P	36	49	NDD					+	0.00		3H	3	L1107	
DSI 360P	38	31	QDI	10	1.06	1	87	1H +	0.00		1H	3	L1107	
DSI 360P	39	45	NDD					+	0.00		1H	3	L1107	
DSI 360P	41	44	NDD					+	0.00		1H	5	L1107	
DSI 360P	41	46	QDI	9	0.76	1	34	1H +	0.10		1H	5	L1107	
DSI 360P	43	32	QDI	17	1.58	1	111	1H +	0.20		1H	15	L1107	
DSI 360P	43	38	QDI	21	2.51	1	65	1H +	0.50		1H	15	L1107	
DSI 360P	44	35	QDI	20	2.19	1	68	1H +	0.30		1H	15	L1107	
DSI 360P	44	49	QDI	20	2.69	1	132	1H -	0.10		1H	3	L1107	
DSI 360P	44	62	QDI	17	1.75	1	91	1H +	0.00		1H	11	N0942	
DSI 360P	45	39	QDI	21	2.61	1	98	1H +	0.10		1H	15	L1107	

TOTAL TUBES FOUND = 280
TOTAL INDICATIONS FOUND = 346
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Outage: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION >= 40% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	1	9	001	49	3.55	1	82	1H	+ 0.00	1H	11	ND942	
DSI 360P	1	19	001	40	2.11	1	101	1H	+ 0.10	1H	3	L1107	
DSI 360P	1	87	001	75	11.79	1	42	TSH	+ 0.00	TSH	14	ND942	
DSI 360P	2	37	001	44	2.75	1	86	1H	+ 0.00	1H	3	L1107	
DSI 360P	5	7	001	41	2.14	1	126	2H	+ 0.00	2H	11	L1107	
DSI 360P			001	41	2.64	1	50	1H	+ 0.10	1H	11	L1107	
DSI 360P	6	10	001	41	2.08	1	99	1H	+ 0.10	1H	11	L1107	
DSI 360P	10	58	001	55	4.60	1	82	1H	+ 0.10	1H	11	ND942	
DSI 360P	11	30	001	42	2.88	1	91	1H	+ 0.10	1H	3	L1107	
DSI 360P	12	10	001	41	2.08	1	100	1H	+ 0.10	1H	11	L1107	
DSI 360P	15	8	001	40	1.94	1	58	1H	+ 0.00	1H	5	L1107	
DSI 360P	16	19	001	41	2.64	1	89	1H	- 0.10	1H	3	L1107	
DSI 360P	34	40	001	41	2.59	1	96	1H	+ 0.20	1H	3	L1107	

TOTAL TUBES FOUND = 12
TOTAL INDICATIONS FOUND = 13
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: EDDY_360 INDICATIONS DSI EXAMINATION 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	3	13	001	27	0.99	1	146	1H	+ 0.10	1H	3	L1107	
DSI 360P	3	14	001	31	1.88	1	41	1H	+ 0.00	1H	3	L1107	
DSI 360P	3	17	001	35	2.14	1	62	2H	+ 0.00	2H	3	L1107	
DSI 360P			001	34	1.56	1	65	1H	+ 0.10	1H	3	L1107	
DSI 360P	5	36	001	20	2.75	1	122	2H	+ 0.00	2H	3	L1107	
DSI 360P	6	10	001	38	2.36	1	113	2H	- 0.10	2H	11	L1107	
DSI 360P	6	15	001	38	2.38	1	107	1H	+ 0.10	1H	3	L1107	
DSI 360P	6	27	001	35	2.16	1	88	1H	- 0.10	1H	3	L1107	
DSI 360P	9	7	001	30	1.76	1	98	1H	+ 0.10	1H	11	L1107	
DSI 360P	9	43	001	32	1.95	1	90	1H	+ 0.00	1H	3	L1107	
DSI 360P	12	13	001	35	2.13	1	113	2H	- 0.10	2H	3	L1107	
DSI 360P	12	18	001	27	1.53	1	65	1H	+ 0.10	1H	5	L1107	
DSI 360P	13	26	001	28	1.17	1	113	1H	- 0.10	1H	22	L1107	
DSI 360P	13	27	001	21	0.61	1	97	2H	+ 0.00	2H	22	L1107	
DSI 360P	13	92	001	20	1.49	1	139	1H	+ 0.10	1H	22	L1107	
DSI 360P	14	9	001	38	1.84	1	98	1H	- 0.10	1H	5	L1107	
DSI 360P	15	26	001	28	1.17	1	81	1H	+ 0.00	1H	22	L1107	
DSI 360P	15	52	001	32	5.07	1	59	1H	+ 0.30	1H	5	L1107	
DSI 360P			001	26	3.47	1	62	1H	- 0.80	1H	5	L1107	
DSI 360P			001	22	2.51	1	54	1H	- 2.00	1H	5	L1107	
DSI 360P	16	27	001	26	1.02	1	104	1H	+ 0.00	1H	22	L1107	
DSI 360P	16	37	001	25	0.94	1	76	1H	+ 0.00	1H	22	L1107	
DSI 360P	17	11	001	21	3.02	1	85	1H	+ 0.00	1H	3	L1107	
DSI 360P	17	14	001	31	1.43	1	92	1H	+ 0.00	1H	22	L1107	
DSI 360P	17	34	001	29	1.25	1	112	3H	- 0.20	3H	22	L1107	
DSI 360P	1	44	001	22	0.62	1	94	1H	+ 0.30	1H	22	L1107	
DSI 360P	2	53	001	24	3.69	1	103	1H	+ 0.10	1H	3	L1107	
DSI 360P	18	29	001	25	0.89	1	46	1H	- 4.90	1H	22	L1107	
DSI 360P	21	10	001	38	1.81	1	82	1H	+ 0.10	1H	5	L1107	
DSI 360P	22	34	001	20	2.65	1	123	1H	+ 0.10	1H	3	L1107	
DSI 360P	25	19	001	35	2.16	1	53	1H	+ 0.10	1H	3	L1107	
DSI 360P	30	13	001	24	3.82	1	102	1H	+ 0.20	1H	3	L1107	
DSI 360P	33	18	001	20	2.27	1	84	1H	+ 0.30	1H	15	L1107	
DSI 360P	35	19	001	20	2.22	1	79	1H	+ 0.30	1H	15	L1107	
DSI 360P	36	21	001	21	2.47	1	103	1H	+ 0.30	1H	15	L1107	
DSI 360P	43	38	001	21	2.51	1	65	1H	+ 0.50	1H	15	L1107	
DSI 360P	44	35	001	20	2.19	1	68	1H	+ 0.30	1H	15	L1107	
DSI 360P	44	49	001	20	2.69	1	132	1H	- 0.10	1H	3	L1107	
DSI 360P	45	39	001	21	2.61	1	98	1H	+ 0.10	1H	15	L1107	

TOTAL TUBES FOUND * 36
TOTAL INDICATIONS FOUND * 39
TOTAL TUBES IN INPUT FILE * 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Itape: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION < 20% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	1	2	001	14	1.29	1	145	1H	+	0.10	1H	11	ND942	
DSI 360P			001	17	1.56	1	108	1H	+	0.00	1H	15	L1107	
DSI 360P	1	5	001	7	0.54	1	30	1H	+	0.00	1H	15	L1107	
DSI 360P	2	1	001	6	0.46	1	124	3H	+	0.00	3H	16	L1107	
DSI 360P			001	17	1.38	1	93	1H	+	0.00	1H	16	L1107	
DSI 360P	2	2	001	10	0.73	1	58	2H	+	0.20	2H	16	L1107	
DSI 360P	2	3	001	15	1.35	1	83	2H	-	0.30	2H	11	ND942	
DSI 360P	2	4	001	17	1.79	1	104	1H	-	4.90	1H	11	ND942	
DSI 360P	2	6	001	17	1.83	1	25	2H	+	0.00	2H	11	ND942	
DSI 360P			001	18	1.87	1	52	1H	+	0.00	1H	11	ND942	
DSI 360P	2	14	001	18	2.13	1	84	1H	+	0.10	1H	3	L1107	
DSI 360P	2	16	001	19	2.45	1	92	1H	+	0.20	1H	3	L1107	
DSI 360P	2	37	001	9	1.00	1	72	4H	-	0.10	4H	3	L1107	
DSI 360P			001	17	2.09	1	44	2H	-	4.80	2H	3	L1107	
DSI 360P	2	44	001	17	1.88	1	59	1H	+	0.10	1H	3	L1107	
DSI 360P	2	45	001	17	2.09	1	101	1H	+	0.20	1H	3	L1107	
DSI 360P	2	50	001	10	0.78	1	57	1H	-	0.10	1H	16	L1107	
DSI 360P	2	54	001	14	1.10	1	70	1H	-	0.10	1H	16	L1107	
DSI 360P	2	55	001	13	1.02	1	28	3H	+	0.00	3H	16	L1107	
DSI 360P			001	14	1.06	1	50	2H	+	0.00	2H	16	L1107	
DSI 360P	2	67	001	14	1.46	1	75	3H	+	0.20	3H	3	L1107	
DSI 360P			001	6	0.61	1	107	2H	+	0.00	2H	3	L1107	
DSI 360P	2	69	001	5	0.53	1	85	1H	-	0.10	1H	3	L1107	
DSI 360P	2	71	001	10	1.09	1	92	2H	-	0.10	2H	3	L1107	
DSI 360P	2	86	001	12	0.97	1	84	4H	-	0.10	4H	15	L1107	
DSI 360P			001	12	0.97	1	70	3H	+	0.00	3H	15	L1107	
DSI 360P	3	2	001	9	0.85	1	83	1H	+	0.00	1H	11	L1107	
DSI 360P	3	3	001	13	1.13	1	61	1H	+	0.20	1H	11	L1107	
DSI 360P	3	4	001	16	1.46	1	48	1H	+	0.10	1H	11	L1107	
DSI 360P	3	10	001	10	0.92	1	68	2H	+	0.00	2H	11	ND942	
DSI 360P	3	13	001	13	1.36	1	105	2H	+	0.00	2H	3	L1107	
SI 360P	3	14	001	5	0.53	1	127	2H	-	0.10	2H	3	L1107	
SI 360P	3	15	001	12	0.64	1	31	1H	-	0.10	1H	22	L1107	
DSI 360P	3	25	001	12	1.00	1	122	1H	+	0.00	1H	15	L1107	
DSI 360P	3	26	001	16	1.76	1	141	1H	+	0.00	1H	3	L1107	
DSI 360P	3	30	001	18	2.14	1	62	1H	-	0.10	1H	3	L1107	
DSI 360P	3	33	001	17	2.00	1	78	2H	+	0.00	2H	3	L1107	
DSI 360P			001	8	0.88	1	67	1H	+	0.00	1H	3	L1107	
DSI 360P	3	36	001	12	1.29	1	60	1H	+	0.00	1H	3	L1107	
DSI 360P	3	59	001	17	1.03	1	105	1H	+	0.00	1H	22	L1107	
DSI 360P	3	64	001	8	0.89	1	50	3H	+	0.10	3H	3	L1107	
DSI 360P	3	73	001	16	0.84	1	21	3H	+	0.20	3H	22	L1107	
DSI 360P	3	75	001	16	1.69	1	115	3H	-	0.10	3H	3	L1107	
DSI 360P	4	2	001	8	0.73	1	118	2H	-	5.50	2H	11	L1107	
DSI 360P	4	4	001	18	1.99	1	96	3H	+	0.10	3H	11	L1107	
DSI 360P	4	7	001	11	1.02	1	54	1H	-	0.10	1H	11	L1107	
DSI 360P	4	11	001	15	1.63	1	142	1H	+	0.00	1H	3	L1107	
DSI 360P	4	14	001	8	0.89	1	21	1H	+	0.10	1H	3	L1107	
DSI 360P	4	17	001	15	0.79	1	161	2H	-	0.10	2H	22	L1107	
DSI 360P	4	18	001	10	1.06	1	73	2H	+	0.00	2H	3	L1107	
DSI 360P	4	19	001	16	1.82	1	25	2H	+	0.10	2H	3	L1107	
DSI 360P	4	21	001	13	1.40	1	111	1H	+	0.10	1H	3	L1107	
DSI 360P	4	47	001	11	0.58	1	157	1H	+	0.00	1H	22	L1107	
DSI 360P	4	70	001	14	1.12	1	79	1H	-	0.20	1H	15	L1107	
DSI 360P	4	76	001	15	1.57	1	77	1H	+	0.00	1H	3	L1107	
DSI 360P	5	11	001	16	0.91	1	85	1H	+	0.00	1H	22	L1107	
DSI 360P	5	19	001	10	1.11	1	19	3H	+	0.10	3H	3	L1107	
DSI 360P			001	18	2.29	1	50	1H	+	0.00	1H	3	L1107	
DSI 360P	5	58	001	16	1.44	1	105	1H	+	0.00	1H	11	ND942	
DSI 360P	5	59	001	14	1.27	1	85	1H	+	0.10	1H	11	ND942	
DSI 360P			001	13	1.05	1	37	1H	+	0.00	1H	15	L1107	
DSI 360P	5	69	001	17	1.95	1	123	1H	+	0.00	1H	3	L1107	
DSI 360P	6	11	001	7	0.38	1	30	1H	+	0.00	1H	22	L1107	
DSI 360P	6	12	001	9	0.49	1	48	1H	+	0.10	1H	22	L1107	
DSI 360P	6	18	001	9	0.92	1	132	2H	+	0.00	2H	3	L1107	
DSI 360P			001	7	0.72	1	40	1H	+	0.00	1H	3	L1107	
DSI 360P	6	27	001	8	0.84	1	108	2H	+	0.10	2H	3	L1107	
DSI 360P	6	28	001	14	1.55	1	145	1H	+	0.00	1H	3	L1107	
DSI 360P	7	3	001	16	1.41	1	80	1H	+	2.30	1H	11	L1107	
I 360P			001	17	1.66	1	85	1H	+	0.10	1H	11	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: B
Stage: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION < 20% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	7	7	001	11	0.95	1	114	2H	-	0.10	2H	11	L1107	
DSI 360P			001	8	0.73	1	106	1H	+	0.00	1H	11	L1107	
DSI 360P	7	14	001	17	0.96	1	20	2H	+	0.00	2H	22	L1107	
DSI 360P			001	16	0.90	1	36	2H	+	0.00	2H	22	L1107	
DSI 360P	7	16	001	13	0.66	1	87	1H	-	4.00	1H	22	L1107	
DSI 360P	7	19	001	13	1.46	1	110	1H	+	0.00	1H	3	L1107	
DSI 360P	7	22	001	10	0.81	1	159	1H	+	0.10	1H	15	L1107	
DSI 360P	7	25	001	12	1.01	1	92	1H	-	0.10	1H	15	L1107	
DSI 360P	7	27	001	13	1.36	1	150	1H	-	0.10	1H	3	L1107	
DSI 360P	7	39	001	8	0.91	1	31	3H	+	0.10	3H	3	L1107	
DSI 360P			001	16	1.74	1	123	1H	+	0.00	1H	3	L1107	
DSI 360P	7	43	001	19	2.51	1	82	1H	+	0.10	1H	3	L1107	
DSI 360P	7	59	001	9	0.84	1	52	1H	+	0.00	1H	11	ND942	
DSI 360P	7	64	001	16	1.43	1	77	1H	-	0.10	1H	11	ND942	
DSI 360P			001	16	1.41	1	63	1H	+	0.20	1H	15	L1107	
DSI 360P	7	69	001	11	1.02	1	138	1H	-	0.10	1H	11	ND942	
DSI 360P			001	12	0.98	1	117	1H	-	0.10	1H	15	L1107	
DSI 360P	7	74	001	9	0.76	1	44	1H	-	0.10	1H	15	L1107	
DSI 360P	9	8	001	10	0.87	1	90	1H	-	0.10	1H	11	ND942	
DSI 360P			001	9	0.73	1	57	1H	+	0.10	1H	15	L1107	
DSI 360P	9	31	001	9	0.76	1	119	1H	-	0.10	1H	15	L1107	
DSI 360P	9	48	001	9	1.02	1	83	2H	+	0.20	2H	3	L1107	
DSI 360P			001	10	1.12	1	76	1H	+	0.00	1H	3	L1107	
DSI 360P	9	52	001	8	0.73	1	43	1H	+	0.10	1H	11	ND942	
DSI 360P	9	53	001	16	1.42	1	113	1H	+	0.10	1H	11	ND942	
DSI 360P	9	59	001	10	0.92	1	79	1H	+	0.20	1H	11	ND942	
DSI 360P	9	69	001	12	1.30	1	86	2H	+	0.00	2H	3	L1107	
DSI 360P	9	71	001	12	1.12	1	112	1H	+	0.00	1H	11	ND942	
DSI 360P			001	10	0.89	1	70	2H	+	0.10	2H	11	ND942	
DSI 360P			001	10	0.83	1	76	2H	+	0.10	2H	15	L1107	
DSI 360P			001	16	1.34	1	118	1H	+	0.10	1H	15	L1107	
DSI 360P	9	72	001	10	1.05	1	51	1H	+	0.00	1H	3	L1107	
DSI 360P	9	75	001	6	0.67	1	102	1H	+	0.00	1H	3	L1107	
DSI 360P	9	77	001	10	1.13	1	78	1H	+	0.10	1H	3	L1107	
DSI 360P			001	13	0.69	1	25	2H	-	0.10	2H	24	L1107	
DSI 360P			001	15	0.78	1	124	1H	+	0.00	1H	24	L1107	
DSI 360P	9	78	001	12	1.04	1	57	1H	+	0.20	1H	11	ND942	
DSI 360P			001	17	1.59	1	137	1H	+	0.20	1H	15	L1107	
DSI 360P	9	80	001	13	1.18	1	68	1H	+	0.20	1H	11	ND942	
DSI 360P			001	13	1.03	1	79	1H	+	0.10	1H	15	L1107	
DSI 360P	10	13	001	17	1.37	1	71	1H	+	0.10	1H	16	L1107	
DSI 360P	10	77	001	16	1.81	1	59	1H	+	0.10	1H	3	L1107	
DSI 360P	10	93	001	18	1.18	1	136	1H	-	0.20	1H	22	L1107	
DSI 360P	11	11	001	11	1.19	1	67	2H	+	0.00	2H	3	L1107	
DSI 360P	11	13	001	13	1.00	1	60	1H	+	0.00	1H	16	L1107	
DSI 360P	11	20	001	15	1.14	1	59	1H	+	0.00	1H	16	L1107	
DSI 360P	11	23	001	15	1.16	1	62	1H	+	0.00	1H	16	L1107	
DSI 360P	11	26	001	12	1.27	1	106	2H	+	0.10	2H	3	L1107	
DSI 360P	11	30	001	15	1.58	1	46	2H	+	0.10	2H	3	L1107	
DSI 360P	11	85	001	8	0.89	1	90	2H	-	0.10	2H	3	L1107	
DSI 360P			001	7	0.79	1	92	2H	-	0.10	2H	3	L1107	
DSI 360P	12	8	001	11	0.98	1	100	1H	+	0.00	1H	11	L1107	
DSI 360P	12	14	001	8	0.91	1	125	3H	+	0.10	3H	3	L1107	
DSI 360P			001	11	1.22	1	30	2H	+	0.10	2H	3	L1107	
DSI 360P			001	11	1.16	1	158	1H	+	0.30	1H	3	L1107	
DSI 360P	12	16	001	13	1.45	1	25	2H	+	0.30	2H	3	L1107	
DSI 360P	12	17	001	11	1.17	1	28	1H	+	0.00	1H	3	L1107	
DSI 360P	12	22	001	8	0.63	1	76	1H	-	0.10	1H	16	L1107	
DSI 360P	12	23	001	16	1.79	1	76	1H	+	0.00	1H	3	L1107	
DSI 360P	12	73	001	18	2.17	1	96	1H	+	0.20	1H	3	L1107	
DSI 360P	13	33	001	6	0.62	1	159	1H	-	0.10	1H	3	L1107	
DSI 360P	13	40	001	18	2.12	1	82	1H	-	0.10	1H	3	L1107	
DSI 360P	14	5	001	18	2.12	1	67	1H	+	0.10	1H	11	L1107	
DSI 360P	14	68	001	15	0.92	1	155	1H	+	0.10	1H	3	L1107	
DSI 360P	14	79	001	13	1.20	1	54	1H	+	0.00	1H	11	ND942	
DSI 360P	15	16	001	12	0.65	1	36	1H	+	0.10	1H	22	L1107	
DSI 360P	15	62	001	18	1.64	1	103	1H	+	0.00	1H	5	L1107	
DSI 360P	16	12	001	11	0.60	1	32	3H	+	0.20	3H	26	L1107	
DSI 360P			001	11	0.56	1	13	2H	+	0.00	2H	26	L1107	
DSI 360P	16	34	001	13	1.38	1	36	2H	+	0.00	2H	3	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: B
Outage: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION < 20% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	16	48	001	14	0.76	1	28	1H	+ 0.20	1H	22	L1107	
DSI 360P	16	50	001	17	1.60	1	76	1H	+ 0.10	1H	5	L1107	
DSI 360P	17	12	001	10	1.05	1	25	1H	+ 0.10	1H	3	L1107	
DSI 360P	17	19	001	17	2.06	1	119	2H	+ 0.00	2H	3	L1107	
DSI 360P	17	27	001	15	1.57	1	65	1H	+ 0.10	1H	3	L1107	
DSI 360P	17	59	001	16	1.82	1	81	1H	+ 0.00	1H	3	L1107	
DSI 360P	17	65	001	10	1.10	1	81	1H	- 0.10	1H	3	L1107	
DSI 360P	17	74	001	15	1.66	1	89	1H	+ 0.00	1H	3	L1107	
DSI 360P	18	13	001	10	1.08	1	67	2H	+ 0.00	2H	3	L1107	
DSI 360P	18	47	001	8	0.86	1	124	1H	- 0.10	1H	3	L1107	
DSI 360P	18	48	001	7	0.78	1	130	1H	+ 0.10	1H	3	L1107	
DSI 360P	18	57	001	18	1.92	1	112	2H	+ 0.00	2H	11	N0942	
DSI 360P	18	62	001	13	1.36	1	100	1H	+ 0.10	1H	3	L1107	
DSI 360P	18	66	001	8	0.71	1	94	1H	+ 0.00	1H	11	N0942	
DSI 360P	19	18	001	11	0.87	1	105	1H	- 0.30	1H	15	L1107	
DSI 360P	19	21	001	12	1.01	1	139	1H	+ 0.00	1H	15	L1107	
DSI 360P	19	39	001	7	0.73	1	17	1H	+ 0.00	1H	3	L1107	
DSI 360P	20	11	001	12	0.97	1	76	1H	+ 0.10	1H	15	L1107	
DSI 360P	20	24	001	14	1.50	1	54	1H	+ 0.00	1H	3	L1107	
DSI 360P	20	26	001	9	0.69	1	62	1H	+ 0.00	1H	15	L1107	
DSI 360P	20	41	001	9	0.73	1	49	1H	- 0.10	1H	15	L1107	
DSI 360P	20	58	001	10	0.86	1	89	1H	- 0.10	1H	11	N0942	
DSI 360P	21	59	001	13	0.71	1	152	3H	- 0.20	3H	22	L1107	
DSI 360P			001	13	0.68	1	28	1H	+ 0.10	1H	22	L1107	
DSI 360P	21	66	001	12	1.30	1	71	1H	+ 0.10	1H	3	L1107	
DSI 360P	22	22	001	13	1.06	1	31	1H	- 0.10	1H	15	L1107	
DSI 360P	22	23	001	4	0.48	1	85	1H	+ 0.00	1H	3	L1107	
DSI 360P	22	70	001	11	1.24	1	113	2H	+ 0.10	2H	3	L1107	
DSI 360P			001	12	1.00	1	71	2H	+ 0.10	2H	5	L1107	
DSI 360P	22	75	001	17	1.81	1	92	1H	+ 0.20	1H	11	N0942	
DSI 360P	24	17	001	9	0.75	1	111	1H	+ 0.10	1H	15	L1107	
DSI 360P	24	22	001	11	0.90	1	58	1H	+ 0.10	1H	15	L1107	
DSI 360P	24	36	001	10	0.83	1	125	1H	+ 0.00	1H	15	L1107	
DSI 360P	28	57	001	6	0.69	1	159	1H	+ 0.00	1H	3	L1107	
DSI 360P	29	12	001	19	2.39	1	138	1H	+ 0.20	1H	3	L1107	
DSI 360P	31	34	001	14	1.51	1	88	1H	+ 0.10	1H	3	L1107	
DSI 360P	31	35	001	6	0.60	1	105	1H	+ 0.10	1H	3	L1107	
DSI 360P	31	36	001	11	1.19	1	81	1H	+ 0.10	1H	3	L1107	
DSI 360P	33	35	001	7	0.75	1	149	1H	+ 0.00	1H	3	L1107	
DSI 360P	33	39	001	7	0.72	1	115	1H	+ 0.10	1H	3	L1107	
DSI 360P	33	48	001	7	0.79	1	61	1H	+ 0.00	1H	3	L1107	
DSI 360P	33	52	001	16	1.70	1	50	2H	+ 0.00	2H	3	L1107	
DSI 360P			001	17	1.87	1	61	1H	+ 0.10	1H	3	L1107	
DSI 360P	34	37	001	12	0.98	1	134	2H	+ 0.30	2H	15	L1107	
DSI 360P	34	39	001	13	1.42	1	132	2H	+ 0.10	2H	3	L1107	
DSI 360P	35	31	001	17	1.94	1	77	3H	+ 0.10	3H	3	L1107	
DSI 360P			001	18	2.13	1	74	1H	+ 0.20	1H	3	L1107	
DSI 360P	35	33	001	18	2.25	1	71	1H	+ 0.20	1H	3	L1107	
DSI 360P	35	62	001	14	1.25	1	69	1H	+ 0.10	1H	11	N0942	
DSI 360P	38	31	001	10	1.06	1	87	1H	+ 0.00	1H	3	L1107	
DSI 360P	41	46	001	9	0.76	1	34	1H	+ 0.10	1H	5	L1107	
DSI 360P	43	32	001	17	1.58	1	111	1H	+ 0.20	1H	15	L1107	
DSI 360P	44	62	001	17	1.75	1	91	1H	+ 0.00	1H	11	N0942	

TOTAL TUBES FOUND = 159
TOTAL INDICATIONS FOUND = 193
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	1	46	MDD					+	0.00		1H	12	MD942	
DSI 360P	1	47	MDD					+	0.00		1H	4	MD942	
DSI 360P	1	86	MDD					+	0.00		2H	4	MD942	
DSI 360P	2	9	MDD					+	0.00		1H	12	MD942	
DSI 360P	2	16	MDD					+	0.00		2H	12	MD942	
DSI 360P	2	19	MDD					+	0.00		1H	12	MD942	
DSI 360P	2	22	QDI	18	0.63	1	55	1H +	0.10		1H	3	S2680	
DSI 360P	2	24	MDD					+	0.00		1H	3	S2680	
DSI 360P	2	25	MDD					+	0.00		2H	12	MD942	
DSI 360P			MDD					+	0.00		1H	12	MD942	
DSI 360P	2	47	MDD					+	0.00		1H	4	MD942	
DSI 360P	2	65	MDD					+	0.00		2H	3	S2680	
DSI 360P	2	68	MDD					+	0.00		2H	3	S2680	
DSI 360P	2	70	MDD					+	0.00		2H	3	S2680	
DSI 360P			MDD					+	0.00		1H	3	S2680	
DSI 360P	2	76	MDD					+	0.00		2H	12	MD942	
DSI 360P	3	1	MDD					+	0.00		2H	3	S2680	
DSI 360P			QDI	22	0.92	1	64	1H +	0.00		1H	3	S2680	
DSI 360P	3	2	MDD					+	0.00		1H	4	MD942	
DSI 360P	3	4	MDD					+	0.00		2H	17	S2680	
DSI 360P			MDD					+	0.00		1H	17	S2680	
DSI 360P	3	6	MDD					+	0.00		1H	4	MD942	
DSI 360P	3	31	MDD					+	0.00		1H	3	S2680	
DSI 360P	3	34	MDD					+	0.00		1H	3	S2680	
DSI 360P	3	46	MDD					+	0.00		2H	4	MD942	
DSI 360P	3	55	MDD					+	0.00		2H	4	MD942	
DSI 360P			MDD					+	0.00		1H	17	S2680	
DSI 360P	3	59	MDD					+	0.00		2H	4	MD942	
DSI 360P			MDD					+	0.00		1H	4	MD942	
DSI 360P	3	60	MDD					+	0.00		1H	17	S2680	
DSI 360P	3	61	MDD					+	0.00		1H	4	MD942	
DSI 360P	3	68	MDD					+	0.00		1H	3	S2680	
DSI 360P	3	71	MDD					+	0.00		1H	3	S2680	
DSI 360P	3	72	MDD					+	0.00		1H	3	S2680	
DSI 360P	3	73	QDI	18	0.52	1	156	2H +	0.00		2H	11	S2680	
DSI 360P	3	78	MDD					+	0.00		2H	3	S2680	
DSI 360P			MDD					+	0.00		1H	3	S2680	
DSI 360P	4	48	MDD					+	0.00		1H	4	MD942	
DSI 360P	4	51	MDD					+	0.00		1H	4	MD942	
DSI 360P	4	52	MDD					+	0.00		1H	4	MD942	
DSI 360P	4	53	MDD					+	0.00		1H	4	MD942	
DSI 360P	4	55	MDD					+	0.00		2H	4	MD942	
DSI 360P			MDD					+	0.00		1H	4	MD942	
DSI 360P	4	58	MDD					+	0.00		1H	4	MD942	
DSI 360P	4	61	MDD					+	0.00		1H	4	MD942	
DSI 360P	4	69	MDD					+	0.00		1H	3	S2680	
DSI 360P	4	73	MDD					+	0.00		1H	3	S2680	
DSI 360P	4	80	MDD					+	0.00		1H	3	S2680	
DSI 360P	4	84	MDD					+	0.00		1H	4	MD942	
DSI 360P	5	1	MDD					+	0.00		1H	4	MD942	
DSI 360P	5	2	MDD					+	0.00		2H	17	S2680	
DSI 360P	5	59	MDD					+	0.00		1H	4	MD942	
DSI 360P	5	63	MDD					+	0.00		1H	11	S2680	
DSI 360P	5	65	MDD					+	0.00		1H	11	S2680	
DSI 360P	6	80	MDD					+	0.00		1H	3	S2680	
DSI 360P	7	8	MDD					+	0.00		1H	4	MD942	
DSI 360P	7	13	QDI	19	0.66	1	122	1H +	0.00		1H	3	S2680	
DSI 360P	7	17	QDI	22	1.47	1	50	1H +	0.00		1H	11	S2680	
DSI 360P	7	21	QDI	24	1.03	1	42	2H +	0.00		2H	3	S2680	
DSI 360P			QDI	24	1.03	1	111	1H +	0.00		1H	3	S2680	
DSI 360P	7	23	QDI	24	1.09	1	79	1H +	0.10		1H	3	S2680	
DSI 360P	7	41	MDD					+	0.00		4H	10	MD942	
DSI 360P	7	78	MDD					+	0.00		1H	3	S2680	
DSI 360P	7	80	MDD					+	0.00		1H	3	S2680	
DSI 360P	7	91	MDD					+	0.00		1H	11	S2680	
DSI 360P	7	94	MDD					+	0.00		3H	10	MD942	
DSI 360P	9	3	MDD					+	0.00		1H	4	MD942	
DSI 360P			MDD					+	0.00		3H	17	S2680	
DSI 360P	9	12	MDD					+	0.00		1H	12	MD942	
DSI 360P	10	57	QDI	45	1.21	1	90	1H -	0.20		1H	4	MD942	

Plant: Beaver Valley Unit 1 Steam Generator: C
Stage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	10	64	MDD						+	0.00	1H	11	S2680	
DSI 360P	10	71	MDD						+	0.00	1H	3	S2680	
DSI 360P	11	76	MDD						+	0.00	1H	3	S2680	
DSI 360P	11	85	MDD						+	0.00	1H	10	N0942	
DSI 360P	12	44	MDD						+	0.00	1H	11	S2680	
DSI 360P	12	71	MDD						+	0.00	1H	3	S2680	
DSI 360P	12	75	MDD						+	0.00	1H	3	S2680	
DSI 360P	12	81	MDD						+	0.00	2H	3	S2680	
DSI 360P			MDD						+	0.00	1H	3	S2680	
DSI 360P	14	3	MDD						+	0.00	1H	4	N0942	
DSI 360P	14	69	MDD						+	0.00	3H	11	S2680	
DSI 360P	15	6	MDD						+	0.00	1H	4	N0942	
DSI 360P	15	49	MDD						+	0.00	1H	12	N0942	
DSI 360P	15	50	MDD						+	0.00	1H	4	N0942	
DSI 360P	15	51	MDD						+	0.00	1H	4	N0942	
DSI 360P	15	53	MDD						+	0.00	1H	12	N0942	
DSI 360P	15	54	MDD						+	0.00	2H	4	N0942	
DSI 360P	15	55	MDD						+	0.00	1H	12	N0942	
DSI 360P	15	56	MDD						+	0.00	1H	4	N0942	
DSI 360P	15	57	ODI	20	1.21	1	168	1H	+	0.10	1H	12	N0942	
DSI 360P	15	58	MDD						+	0.00	1H	4	N0942	
DSI 360P	15	60	MDD						+	0.00	1H	4	N0942	
DSI 360P	15	62	MDD						+	0.00	1H	4	N0942	
DSI 360P	15	63	MDD						+	0.00	1H	12	N0942	
DSI 360P	15	64	MDD						+	0.00	2H	3	S2680	
DSI 360P	15	66	MDD						+	0.00	2H	3	S2680	
DSI 360P			ODI	26	0.65	1	126	1H	+	0.10	1H	3	S2680	
DSI 360P	15	67	MDD						+	0.00	1H	3	S2680	
DSI 360P	15	69	ODI	29	0.83	1	140	1H	+	0.00	1H	3	S2680	
DSI 360P	15	70	ODI	37	1.23	1	100	1H	+	0.00	1H	3	S2680	
DSI 360P	16	48	ODI	18	0.59	1	118	1H	+	0.00	1H	11	S2680	
DSI 360P	16	49	MDD						+	0.00	1H	4	N0942	
DSI 360P	17	53	MDD						+	0.00	1H	3	S2680	
DSI 360P	17	58	MDD						+	0.00	1H	3	S2680	
DSI 360P	17	80	MDD						+	0.00	1H	3	S2680	
DSI 360P	17	83	MDD						+	0.00	1H	3	S2680	
DSI 360P	17	85	MDD						+	0.00	1H	10	N0942	
DSI 360P	18	20	ODI	18	0.61	1	65	1H	+	0.10	1H	3	S2680	
DSI 360P	18	71	MDD						+	0.00	1H	3	S2680	
DSI 360P	18	87	MDD						+	0.00	2H	10	N0942	
DSI 360P	18	90	ODI	22	1.75	1	136	1H	+	0.10	1H	10	N0942	
DSI 360P	19	61	MDD						+	0.00	1H	3	S2680	
DSI 360P	19	66	MDD						+	0.00	2H	3	S2680	
DSI 360P	19	67	MDD						+	0.00	1H	3	S2680	
DSI 360P	20	71	MDD						+	0.00	2H	3	S2680	
DSI 360P			MDD						+	0.00	1H	3	S2680	
DSI 360P	20	72	MDD						+	0.00	1H	3	S2680	
DSI 360P	20	73	MDD						+	0.00	1H	3	S2680	
DSI 360P	20	74	MDD						+	0.00	2H	3	S2680	
DSI 360P			MDD						+	0.00	1H	3	S2680	
DSI 360P	20	79	MDD						+	0.00	1H	3	S2680	
DSI 360P	20	81	MDD						+	0.00	1H	3	S2680	
DSI 360P	20	85	MDD						+	0.00	1H	10	N0942	
DSI 360P	21	21	ODI	13	0.45	1	166	2H	+	0.00	2H	3	S2680	
DSI 360P			ODI	34	2.05	1	129	1H	+	0.00	1H	3	S2680	
DSI 360P	22	62	MDD						+	0.00	1H	3	S2680	
DSI 360P	23	7	MDD						+	0.00	1H	17	S2680	
DSI 360P	23	15	ODI	11	0.39	1	66	1H	+	0.00	1H	12	N0942	
DSI 360P	23	16	ODI	18	0.83	1	82	2H	-	0.10	2H	12	N0942	
DSI 360P			MDD						+	0.00	1H	12	N0942	
DSI 360P	23	22	ODI	19	1.15	1	34	1H	+	0.10	1H	12	N0942	
DSI 360P	23	35	MDD						+	0.00	4H	12	N0942	
DSI 360P			MDD						+	0.00	1H	12	N0942	
DSI 360P	23	43	ODI	25	1.15	1	75	1H	+	0.00	1H	3	S2680	
DSI 360P	23	45	ODI	17	0.78	1	100	1H	+	0.10	1H	12	N0942	
DSI 360P	23	46	ODI	22	0.86	1	68	1H	+	0.00	1H	3	S2680	
DSI 360P	23	54	ODI	20	0.73	1	43	1H	+	0.00	1H	3	S2680	
DSI 360P	23	60	MDD						+	0.00	1H	11	S2680	
DSI 360P	23	70	MDD						+	0.00	1H	11	S2680	
DSI 360P	24	11	MDD						+	0.00	1H	12	N0942	

Plant: Beaver Valley Unit 1 Steam Generator: C
tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	24	12	OD1	16	0.61	1	139	1H	-	0.20	1H	12	WD942	
DSI 360P	24	13	MDD						+	0.00	1H	12	WD942	
DSI 360P	24	14	MDD						+	0.00	1H	12	WD942	
DSI 360P	24	15	MDD						+	0.00	1H	12	WD942	
DSI 360P	24	26	MDD						+	0.00	1H	3	S2680	
DSI 360P	24	28	MDD						+	0.00	1H	12	WD942	
DSI 360P	24	33	MDD						+	0.00	1H	12	WD942	
DSI 360P	24	59	OD1	18	0.62	1	125	1H	+	0.00	1H	3	S2680	
DSI 360P	24	62	MDD						+	0.00	1H	3	S2680	
DSI 360P	24	72	MDD						+	0.00	1H	11	S2680	
DSI 360P	24	78	OD1	22	0.84	1	80	1H	+	0.00	1H	3	S2680	
DSI 360P	24	79	MDD						+	0.00	1H	11	S2680	
DSI 360P	25	16	MDD						+	0.00	1H	12	WD942	
DSI 360P	25	34	MDD						+	0.00	1H	12	WD942	
DSI 360P	25	35	MDD						+	0.00	1H	12	WD942	
DSI 360P	25	61	OD1	18	0.53	1	92	1H	+	0.20	1H	11	S2680	
DSI 360P	26	12	OD1	21	1.37	1	61	1H	-	0.20	1H	12	WD942	
DSI 360P	26	28	MDD						+	0.00	1H	12	WD942	
DSI 360P	26	41	MDD						+	0.00	1H	12	WD942	
DSI 360P	26	44	MDD						+	0.00	1H	12	WD942	
DSI 360P	26	50	MDD						+	0.00	1H	11	S2680	
DSI 360P	27	17	OD1	20	1.17	1	25	1H	+	0.00	1H	12	WD942	
DSI 360P	27	18	MDD						+	0.00	1H	12	WD942	
DSI 360P	27	20	MDD						+	0.00	1H	12	WD942	
DSI 360P			OD1	13	0.47	1	119	2H	+	0.10	2H	12	WD942	
DSI 360P	27	25	MDD						+	0.00	1H	12	WD942	
DSI 360P	27	41	MDD						+	0.00	1H	12	WD942	
DSI 360P	27	46	MDD						+	0.00	1H	3	S2680	
DSI 360P	27	47	MDD						+	0.00	1H	12	WD942	
DSI 360P	28	11	OD1	17	1.11	1	138	1H	-	0.10	1H	17	S2680	
DSI 360P	28	12	OD1	14	0.50	1	147	1H	-	0.30	1H	12	WD942	
I 360P	28	15	OD1	18	0.64	1	48	1H	+	0.10	1H	3	S2680	
I 360P	28	17	MDD						+	0.00	2H	12	WD942	
DSI 360P	28	22	MDD						+	0.00	1H	12	WD942	
DSI 360P	28	26	MDD						+	0.00	1H	12	WD942	
DSI 360P	28	27	OD1	17	0.75	1	105	1H	-	0.20	1H	12	WD942	
DSI 360P	28	32	OD1	17	0.66	1	28	1H	-	0.10	1H	12	WD942	
DSI 360P	28	36	MDD						+	0.00	1H	12	WD942	
DSI 360P	28	44	OD1	31	1.70	1	121	1H	+	0.00	1H	3	S2680	
DSI 360P	28	52	OD1	17	0.49	1	53	1H	+	0.00	1H	11	S2680	
DSI 360P	29	16	MDD						+	0.00	1H	12	WD942	
DSI 360P	29	17	MDD						+	0.00	1H	12	WD942	
DSI 360P	29	19	OD1	23	0.99	1	143	1H	+	0.00	1H	3	S2680	
DSI 360P	29	27	MDD						+	0.00	1H	12	WD942	
DSI 360P			OD1	19	1.11	1	138	1H	-	0.20	1H	12	WD942	
DSI 360P	29	50	OD1	28	1.42	1	117	1H	+	0.00	1H	3	S2680	
DSI 360P	30	28	OD1	14	0.18	1	165	1H	+	0.00	1H	11	S2680	
DSI 360P	30	30	OD1	34	1.97	1	61	1H	+	0.00	1H	3	S2680	
DSI 360P	30	36	MDD						+	0.00	1H	11	S2680	
DSI 360P	30	44	MDD						+	0.00	1H	3	S2680	
DSI 360P	30	70	OD1	27	2.42	1	69	1H	-	0.30	1H	11	S2680	
DSI 360P	31	21	OD1	21	1.23	1	73	1H	+	0.00	1H	11	S2680	
DSI 360P	31	36	OD1	18	0.69	1	53	3H	+	0.00	3H	11	S268	
DSI 360P			OD1	18	0.64	1	155	2H	+	0.00	2H	11	S2	
DSI 360P			OD1	22	1.50	1	76	1H	+	0.00	1H	11	S2680	
DSI 360P	31	51	OD1	17	0.60	1	130	1H	+	0.00	1H	3	S2680	
DSI 360P	31	59	MDD						+	0.00	1H	11	S2680	
DSI 360P	31	65	OD1	18	0.60	1	58	1H	+	0.00	1H	11	S2680	
DSI 360P	32	18	MDD						+	0.00	1H	3	S2680	
DSI 360P	32	20	OD1	18	0.61	1	51	1H	+	0.00	1H	3	S2680	
DSI 360P	32	21	OD1	17	0.44	1	86	2H	+	0.00	2H	11	S2680	
DSI 360P	32	23	OD1	16	0.21	1	81	1H	-	4.50	1H	11	S2680	
DSI 360P	32	27	MDD						+	0.00	1H	11	S2680	
DSI 360P	32	28	MDD						+	0.00	1H	11	S2680	
DSI 360P	32	45	OD1	22	0.85	1	131	1H	+	0.00	1H	3	S2680	
DSI 360P	32	47	OD1	20	1.14	1	108	1H	+	0.10	1H	11	S2680	
DSI 360P	32	55	OD1	25	1.16	1	71	1H	+	0.00	1H	3	S2680	
DSI 360P	32	57	OD1	18	0.61	1	106	1H	+	0.00	1H	11	S2680	
DSI 360P	32	60	OD1	19	0.65	1	58	1H	-	0.10	1H	3	S2680	
I 360P	33	19	OD1	17	0.48	1	135	2H	+	0.10	2H	11	S2680	

Plant: Beaver Valley Unit 1 Steam Generator: C
tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DSI EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P			NDD						+	0.00	1N	11	S2680	
DSI 360P	33	36	NDD						+	0.00	1N	11	S2680	
DSI 360P	33	51	ODI	19	0.94	1	42	1N	+	0.00	1N	11	S2680	
DSI 360P	33	64	ODI	19	0.84	1	117	1N	+	0.10	1N	11	S2680	
DSI 360P	33	68	ODI	19	2.74	1	127	1N	+	0.00	1N	11	S2680	
DSI 360P	33	78	ODI	21	1.19	1	113	4N	+	0.30	4N	11	S2680	
DSI 360P	33	79	ODI	25	2.03	1	100	1N	+	0.10	1N	12	N0942	
DSI 360P	34	23	ODI	24	1.07	1	71	2N	+	0.00	2N	3	S2680	
DSI 360P			ODI	23	0.99	1	48	1N	+	0.00	1N	3	S2680	
DSI 360P	34	24	ODI	12	0.15	1	134	1N	+	0.00	1N	11	S2680	
DSI 360P	35	20	NDD						+	0.00	2N	11	S2680	
DSI 360P	35	28	ODI	18	0.72	1	88	1N	+	0.00	1N	11	S2680	
DSI 360P	35	31	NDD						+	0.00	1N	11	S2680	
DSI 360P	35	47	ODI	16	0.21	1	140	1N	+	0.10	1N	11	S2680	
DSI 360P	35	55	ODI	20	1.06	1	90	1N	+	0.00	1N	11	S2680	
DSI 360P	35	63	ODI	19	0.87	1	117	1N	+	0.00	1N	11	S2680	
DSI 360P	35	67	ODI	17	0.33	1	145	1N	+	0.10	1N	11	S2680	
DSI 360P	36	24	NDD						+	0.00	2N	11	S2680	
DSI 360P	36	31	NDD						+	0.00	1N	11	S2680	
DSI 360P	36	36	NDD						+	0.00	2N	11	S2680	
DSI 360P	36	48	NDD						+	0.00	1N	3	S2680	
DSI 360P	36	65	ODI	18	0.66	1	127	3N	+	0.00	3N	11	S2680	
DSI 360P			ODI	18	0.56	1	83	2N	+	0.20	2N	11	S2680	
DSI 360P	37	34	ODI	19	0.87	1	148	1N	+	0.00	1N	11	S2680	
DSI 360P	37	35	ODI	38	2.41	1	68	1N	+	0.00	1N	3	S2680	
DSI 360P	37	52	NDD						+	0.00	1N	3	S2680	
DSI 360P	37	62	NDD						+	0.00	1N	3	S2680	
DSI 360P	38	38	ODI	17	0.38	1	160	2N	+	0.10	2N	11	S2680	
DSI 360P	39	32	NDD						+	0.00	1N	11	S2680	
DSI 360P	40	62	NDD						+	0.00	2N	3	S2680	
DSI 360P	40	65	NDD						+	0.00	1N	3	S2680	
DSI 360P	41	33	ODI	26	1.24	1	136	1N	+	0.00	1N	3	S2680	
DSI 360P	41	56	NDD						+	0.00	1N	3	S2680	
DSI 360P	42	39	ODI	17	0.39	1	152	1N	+	0.00	1N	11	S2680	
DSI 360P			ODI	28	2.70	1	75	1N	+	1.00	1N	11	S2680	MBM
DSI 360P			ODI	25	2.04	1	78	1N	-	2.30	1N	11	S2680	MBM
DSI 360P	42	48	ODI	17	0.43	1	61	1N	+	0.00	1N	11	S2680	
DSI 360P	43	37	ODI	23	1.73	1	148	1N	+	0.20	1N	11	S2680	
DSI 360P	44	55	ODI	65	2.66	1	56	TSN	+	0.00	TSN	4	N0942	
DSI 360P	44	56	ODI	86	6.66	1	60	TSN	+	0.00	TSN	4	N0942	

TOTAL TUBES FOUND = 224
TOTAL INDICATIONS FOUND = 250
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
Tape: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION >= 40% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	10	57	001	45	1.21	1	90	1H	-	0.20	1H	4	ND942	
DSI 360P	44	55	001	65	2.66	1	56	TSH	+	0.00	TSH	4	ND942	
DSI 360P	44	56	001	86	6.66	1	60	TSH	+	0.00	TSH	4	ND942	

TOTAL TUBES FOUND = 3
TOTAL INDICATIONS FOUND = 3
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
Tape: 9/89 RES

QUERY: EDDY 360 INDICATIONS DSI EXAMINATION 20 TO 39% Tw

TEST	ROW	COL	IND	%Tw	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	3	1	001	22	0.92	1	64	1H	+ 0.00	1H	3	S2680	
DSI 360P	7	17	001	22	1.47	1	50	1H	+ 0.00	1H	11	S2680	
DSI 360P	7	21	001	24	1.03	1	42	2H	+ 0.00	2H	3	S2680	
DSI 360P			001	24	1.03	1	111	1H	+ 0.00	1H	3	S2680	
DSI 360P	7	23	001	24	1.09	1	79	1H	+ 0.10	1H	3	S2680	
DSI 360P	15	57	001	20	1.21	1	168	1H	+ 0.10	1H	12	ND942	
DSI 360P	15	66	001	26	0.65	1	126	1H	+ 0.10	1H	3	S2680	
DSI 360P	15	69	001	29	0.83	1	140	1H	+ 0.00	1H	3	S2680	
DSI 360P	15	70	001	37	1.23	1	100	1H	+ 0.00	1H	3	S2680	
DSI 360P	18	90	001	22	1.75	1	134	1H	+ 0.10	1H	10	ND942	
DSI 360P	21	21	001	34	2.05	1	129	1H	+ 0.00	1H	3	S2680	
DSI 360P	23	43	001	25	1.15	1	75	1H	+ 0.00	1H	3	S2680	
DSI 360P	23	46	001	22	0.86	1	68	1H	+ 0.00	1H	3	S2680	
DSI 360P	23	54	001	20	0.73	1	43	1H	+ 0.00	1H	3	S2680	
DSI 360P	24	78	001	22	0.84	1	80	1H	+ 0.00	1H	3	S2680	
DSI 360P	26	12	001	21	1.37	1	61	1H	- 0.20	1H	12	ND942	
DSI 360P	27	17	001	20	1.17	1	25	1H	+ 0.00	1H	12	ND942	
DSI 360P	28	44	001	31	1.70	1	121	1H	+ 0.00	1H	3	S2680	
DSI 360P	29	19	001	23	0.99	1	143	1H	+ 0.00	1H	3	S2680	
DSI 360P	29	50	001	28	1.42	1	117	1H	+ 0.00	1H	3	S2680	
DSI 360P	30	30	001	34	1.97	1	61	1H	+ 0.00	1H	3	S2680	
DSI 360P	30	70	001	27	2.42	1	49	1H	- 0.30	1H	11	S2680	
DSI 360P	31	21	001	21	1.23	1	73	1H	+ 0.00	1H	11	S2680	
DSI 360P	31	36	001	22	1.50	1	76	1H	+ 0.00	1H	11	S2680	
DSI 360P	32	45	001	22	0.85	1	131	1H	+ 0.00	1H	3	S2680	
DSI 360P	32	47	001	20	1.14	1	108	1H	+ 0.10	1H	11	S2680	
DSI 360P	32	55	001	25	1.16	1	71	1H	+ 0.00	1H	3	S2680	
DSI 360P	33	78	001	21	1.19	1	113	4H	+ 0.30	4H	11	S2680	
DSI 360P	33	79	001	25	2.03	1	100	1H	+ 0.10	1H	12	ND942	
DSI 360P	34	23	001	24	1.07	1	71	2H	+ 0.00	2H	3	S2680	
DSI 360P			001	23	0.99	1	48	1H	+ 0.00	1H	3	S2680	
SI 360P	35	55	001	20	1.06	1	90	1H	+ 0.00	1H	11	S2680	
I 360P	37	35	001	38	2.41	1	68	1H	+ 0.00	1H	3	S2680	
SI 360P	41	33	001	26	1.24	1	136	1H	+ 0.00	1H	3	S2680	
DSI 360P	42	39	001	28	2.70	1	75	1H	+ 1.00	1H	11	S2680	MBM
DSI 360P			001	25	2.04	1	78	1H	- 2.30	1H	11	S2680	MBM
DSI 360P	43	37	001	23	1.73	1	148	1H	+ 0.20	1H	11	S2680	

TOTAL TUBES FOUND = 34
TOTAL INDICATIONS FOUND = 37
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
Stage: 9/89 RES

QUERY: EDDY-360 INDICATIONS DSI EXAMINATION < 20% Tw

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
DSI 360P	2	22	OOI	18	0.63	1	55	1H	+	0.10	1H	3	S2680	
DSI 360P	3	73	OOI	18	0.52	1	156	2H	+	0.00	2H	11	S2680	
DSI 360P	7	13	OOI	19	0.66	1	122	1H	+	0.00	1H	3	S2680	
DSI 360P	16	48	OOI	18	0.59	1	118	1H	+	0.00	1H	11	S2680	
DSI 360P	18	20	OOI	18	0.61	1	65	1H	+	0.10	1H	3	S2680	
DSI 360P	21	21	OOI	13	0.45	1	166	2H	+	0.00	2H	3	S2680	
DSI 360P	23	15	OOI	11	0.39	1	66	1H	+	0.00	1H	12	N0942	
DSI 360P	23	16	OOI	18	0.83	1	82	2H	-	0.10	2H	12	N0942	
DSI 360P	23	22	OOI	19	1.15	1	34	1H	+	0.10	1H	12	N0942	
DSI 360P	23	45	OOI	17	0.78	1	100	1H	+	0.10	1H	12	N0942	
DSI 360P	24	12	OOI	16	0.61	1	139	1H	-	0.20	1H	12	N0942	
DSI 360P	24	59	OOI	18	0.62	1	125	1H	+	0.00	1H	3	S2680	
DSI 360P	25	61	OOI	18	0.53	1	92	1H	+	0.20	1H	11	S2680	
DSI 360P	27	20	OOI	13	0.47	1	119	2H	+	0.10	2H	12	N0942	
DSI 360P	28	11	OOI	17	1.11	1	138	1H	-	0.10	1H	17	S2680	
DSI 360P	28	12	OOI	14	0.50	1	147	1H	-	0.30	1H	12	N0942	
DSI 360P	28	15	OOI	18	0.64	1	48	1H	+	0.10	1H	3	S2680	
DSI 360P	28	27	OOI	17	0.74	1	105	1H	-	0.20	1H	12	N0942	
DSI 360P	28	32	OOI	17	0.66	1	28	1H	-	0.10	1H	12	N0942	
DSI 360P	28	52	OOI	17	0.49	1	53	1H	+	0.00	1H	11	S2680	
DSI 360P	29	27	OOI	19	1.11	1	138	1H	-	0.20	1H	12	N0942	
DSI 360P	30	28	OOI	14	0.18	1	165	1H	+	0.00	1H	11	S2680	
DSI 360P	31	36	OOI	18	0.69	1	53	3H	+	0.00	3H	11	S2680	
DSI 360P			OOI	18	0.64	1	155	2H	+	0.00	2H	11	S2680	
DSI 360P	31	51	OOI	17	0.60	1	130	1H	+	0.00	1H	3	S2680	
DSI 360P	31	65	OOI	18	0.60	1	58	1H	+	0.00	1H	11	S2680	
DSI 360P	32	20	OOI	18	0.61	1	51	1H	+	0.00	1H	3	S2680	
DSI 360P	32	21	OOI	17	0.64	1	86	2H	+	0.00	2H	11	S2680	
DSI 360P	32	23	OOI	16	0.21	1	81	1H	-	4.50	1H	11	S2680	
DSI 360P	32	57	OOI	18	0.61	1	106	1H	+	0.00	1H	11	S2680	
DSI 360P	32	60	OOI	19	0.65	1	58	1H	-	0.10	1H	3	S2680	
DSI 360P	33	19	OOI	17	0.48	1	135	2H	+	0.10	2H	11	S2680	
DSI 360P	33	51	OOI	19	0.94	1	42	1H	+	0.00	1H	11	S2680	
DSI 360P	33	64	OOI	19	0.84	1	117	1H	+	0.10	1H	11	S2680	
DSI 360P	33	68	OOI	19	0.74	1	127	1H	+	0.00	1H	11	S2680	
DSI 360P	34	24	OOI	12	0.15	1	134	1H	+	0.00	1H	11	S2680	
DSI 360P	35	28	OOI	18	0.72	1	88	1H	+	0.00	1H	11	S2680	
DSI 360P	35	47	OOI	16	0.21	1	140	1H	+	0.10	1H	11	S2680	
DSI 360P	35	63	OOI	19	0.87	1	117	1H	+	0.00	1H	11	S2680	
DSI 360P	35	67	OOI	17	0.33	1	145	1H	+	0.10	1H	11	S2680	
DSI 360P	36	65	OOI	18	0.66	1	127	3H	+	0.00	3H	11	S2680	
DSI 360P			OOI	18	0.54	1	83	2H	+	0.20	2H	11	S2680	
DSI 360P	37	34	OOI	19	0.87	1	148	1H	+	0.00	1H	11	S2680	
DSI 360P	38	38	OOI	17	0.38	1	160	2H	+	0.10	2H	11	S2680	
DSI 360P	42	39	OOI	17	0.39	1	152	1H	+	0.00	1H	11	S2680	
DSI 360P	42	48	OOI	17	0.43	1	61	1H	+	0.00	1H	11	S2680	

TOTAL TUBES FOUND = 44
TOTAL INDICATIONS FOUND = 46
TOTAL TUBES IN INPUT FILE = 3388

ATTACHMENT IV

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 4/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 WEXTEX EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
WEX 360	11	51	NDD					*	0.00	TSH	4	ND942	
WEX 360	11	54	NDD					*	0.00	TSH	4	ND942	
WEX 360	11	57	NDD					*	0.00	TSH	4	ND942	
WEX 360	11	60	NDD					*	0.00	TSH	4	ND942	
WEX 360	11	63	NDD					*	0.00	TSH	4	ND942	
WEX 360	11	66	NDD					*	0.00	TSH	4	ND942	
WEX 360	11	69	NDD					*	0.00	TSH	4	ND942	
WEX 360	14	51	NDD					*	0.00	TSH	4	ND942	
WEX 360	14	54	NDD					*	0.00	TSH	4	ND942	
WEX 360	14	57	NDD					*	0.00	TSH	4	ND942	
WEX 360	14	60	NDD					*	0.00	TSH	4	ND942	
WEX 360	14	63	NDD					*	0.00	TSH	4	ND942	
WEX 360	14	66	NDD					*	0.00	TSH	4	ND942	
WEX 360	14	69	NDD					*	0.00	TSH	4	ND942	
WEX 360	17	48	NDD					*	0.00	TSH	4	ND942	
WEX 360	17	51	NDD					*	0.00	TSH	4	ND942	
WEX 360	17	54	NDD					*	0.00	TSH	4	ND942	
WEX 360	17	57	NDD					*	0.00	TSH	4	ND942	
WEX 360	17	60	NDD					*	0.00	TSH	4	ND942	
WEX 360	17	63	NDD					*	0.00	TSH	4	ND942	
WEX 360	17	66	NDD					*	0.00	TSH	4	ND942	
WEX 360	17	69	NDD					*	0.00	TSH	4	ND942	
WEX 360	20	48	NDD					*	0.00	TSH	4	ND942	
WEX 360	20	51	NDD					*	0.00	TSH	4	ND942	
WEX 360	20	54	NDD					*	0.00	TSH	4	ND942	
WEX 360	20	57	NDD					*	0.00	TSH	4	ND942	
WEX 360	20	60	NDD					*	0.00	TSH	4	ND942	
WEX 360	20	63	NDD					*	0.00	TSH	4	ND942	
WEX 360	20	66	NDD					*	0.00	TSH	4	ND942	
WEX 360	20	69	NDD					*	0.00	TSH	4	ND942	
WEX 360	23	63	NDD					*	0.00	TSH	4	ND942	
WEX 360	23	66	NDD					*	0.00	TSH	4	ND942	
WEX 360	23	69	NDD					*	0.00	TSH	4	ND942	

TOTAL TUBES FOUND = 33
TOTAL INDICATIONS FOUND = 33
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

TUBES INSPECTED WITH EDDY-360 WEXTEX EXAMINATION

TES	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
WEX 360	1	9	NDD						+ 0.00	TSH	21	ND942	
WEX 360	1	19	NDD						+ 0.00	TSH	21	ND942	
WEX 360	1	67	NDD						+ 0.00	TSH	19	L1107	
WEX 360	1	85	NDD						+ 0.00	TSH	17	ND942	
WEX 360	1	86	NDD						+ 0.00	TSH	17	ND942	
WEX 360	1	87	OD1	75	11.79	1	42	TSH	+ 0.00	TSH	14	ND942	
WEX 360			OD1	75	11.79	1	42	TSH	+ 0.00	TSH	17	ND942	
WEX 360			OD1	75	11.79	1	42	TSH	+ 0.00	TSH	20	L1107	
WEX 360	1	88	NDD						+ 0.00	TSH	18	ND942	
WEX 360	1	89	NDD						+ 0.00	TSH	18	ND942	
WEX 360	1	91	NDD						+ 0.00	TSH	21	ND942	
WEX 360	2	37	NDD						+ 0.00	TSH	21	ND942	
WEX 360	2	53	NDD						+ 0.00	TSH	19	L1107	
WEX 360	2	65	NDD						+ 0.00	TSH	19	L1107	
WEX 360	2	66	NDD						+ 0.00	TSH	19	L1107	
WEX 360	2	75	NDD						+ 0.00	TSH	19	L1107	
WEX 360	2	85	NDD						+ 0.00	TSH	17	ND942	
WEX 360	2	86	NDD						+ 0.00	TSH	17	ND942	
WEX 360	2	87	OD1	42	2.58	1	155	TSH	- 0.10	TSH	17	ND942	
WEX 360			OD1	82	14.45	1	128	TSH	+ 0.00	TSH	20	L1107	
WEX 360	2	88	NDD						+ 0.00	TSH	18	ND942	
WEX 360	2	89	NDD						+ 0.00	TSH	18	ND942	
WEX 360	3	13	NDD						+ 0.00	TSH	21	ND942	
WEX 360	3	14	NDD						+ 0.00	TSH	21	ND942	
WEX 360	3	16	NDD						+ 0.00	TSH	19	L1107	
WEX 360	3	17	NDD						+ 0.00	TSH	21	ND942	
WEX 360	3	19	NDD						+ 0.00	TSH	21	ND942	
WEX 360	3	82	NDD						+ 0.00	TSH	18	ND942	
WEX 360	3	85	NDD						+ 0.00	TSH	17	ND942	
WEX 360	3	86	NDD						+ 0.00	TSH	17	ND942	
WEX 360	3	87	OD1	48	3.74	1	129	TSH	- 0.10	TSH	17	ND942	
WEX 360			OD1	66	7.23	1	133	TSH	+ 0.10	TSH	20	L1107	
WEX 360	3	88	NDD						+ 0.00	TSH	18	ND942	
WEX 360	3	92	NDD						+ 0.00	TSH	18	ND942	
WEX 360	4	2	NDD						+ 0.00	TSH	21	ND942	
WEX 360	4	22	NDD						+ 0.00	TSH	21	ND942	
WEX 360	4	86	NDD						+ 0.00	TSH	25	L1107	
WEX 360	4	87	OD1	41	2.38	1	122	TSH	+ 0.00	TSH	17	ND942	
WEX 360			OD1	63	6.04	1	129	TSH	+ 0.00	TSH	20	L1107	
WEX 360	5	7	NDD						+ 0.00	TSH	21	ND942	
WEX 360	5	70	NDD						+ 0.00	TSH	21	ND942	
WEX 360	5	79	NDD						+ 0.00	TSH	18	ND942	
WEX 360	5	86	NDD						+ 0.00	TSH	25	L1107	
WEX 360	5	87	OD1	51	4.24	1	108	TSH	+ 0.00	TSH	17	ND942	
WEX 360			OD1	66	6.99	1	106	TSH	+ 0.00	TSH	20	L1107	
WEX 360	6	10	NDD						+ 0.00	TSH	21	ND942	
WEX 360	6	15	NDD						+ 0.00	TSH	21	ND942	
WEX 360	6	17	NDD						+ 0.00	TSH	19	L1107	
WEX 360	6	27	NDD						+ 0.00	TSH	21	ND942	
WEX 360	6	53	NDD						+ 0.00	TSH	19	L1107	
WEX 360	6	86	NDD						+ 0.00	TSH	17	ND942	
WEX 360	6	87	NDD						+ 0.00	TSH	17	ND942	
WEX 360			NDD						+ 0.00	TSH	20	L1107	
WEX 360	6	91	NDD						+ 0.00	TSH	21	ND942	
WEX 360	7	33	NDD						+ 0.00	TSH	21	ND942	
WEX 360	7	56	NDD						+ 0.00	TSH	19	L1107	
WEX 360	7	86	NDD						+ 0.00	TSH	25	L1107	
WEX 360	7	87	NDD						+ 0.00	TSH	17	ND942	
WEX 360			NDD						+ 0.00	TSH	20	L1107	
WEX 360	8	86	NDD						+ 0.00	TSH	25	L1107	
WEX 360	8	87	NDD						+ 0.00	TSH	17	ND942	
WEX 360			NDD						+ 0.00	TSH	20	L1107	
WEX 360	9	3	NDD						+ 0.00	TSH	19	L1107	
WEX 360	9	7	NDD						+ 0.00	TSH	21	ND942	
WEX 360	9	33	NDD						+ 0.00	TSH	18	ND942	
WEX 360	9	54	NDD						+ 0.00	TSH	18	ND942	
WEX 360	9	76	NDD						+ 0.00	TSH	21	ND942	
WEX 360	9	84	NDD						+ 0.00	TSH	19	L1107	
WEX 360	9	86	NDD						+ 0.00	TSH	25	L1107	
WEX 360	9	87	NDD						+ 0.00	TSH	17	ND942	

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

WEXFT: TUBES INSPECTED WITH EDDY-360 WEXTEX EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
WEX 360			NDD						+	0.00	TSH	20	L1107	
WEX 360	10	8	NDD						+	0.00	TSH	19	L1107	
WEX 360	10	22	NDD						+	0.00	TSH	19	L1107	
WEX 360	10	49	NDD						+	0.00	TSH	18	ND942	
WEX 360	10	58	NDD						+	0.00	TSH	21	ND942	
WEX 360	10	79	NDD						+	0.00	TSH	19	L1107	
WEX 360	10	84	NDD						+	0.00	TSH	19	L1107	
WEX 360	10	86	NDD						+	0.00	TSH	25	L1107	
WEX 360	10	87	NDD						+	0.00	TSH	17	ND942	
WEX 360			NDD						+	0.00	TSH	20	L1107	
WEX 360	11	3	NDD						+	0.00	TSH	19	L1107	
WEX 360			NDD						+	0.00	TSH	19	L1107	
WEX 360	11	24	NDD						+	0.00	TSH	18	ND942	
WEX 360	11	30	NDD						+	0.00	TSH	21	ND942	
WEX 360	11	32	NDD						+	0.00	TSH	18	ND942	
WEX 360	11	86	NDD						+	0.00	TSH	25	L1107	
WEX 360	11	87	NDD						+	0.00	TSH	18	ND942	
WEX 360			NDD						+	0.00	TSH	20	L1107	
WEX 360	12	10	NDD						+	0.00	TSH	21	ND942	
WEX 360	12	13	NDD						+	0.00	TSH	21	ND942	
WEX 360	12	18	NDD						+	0.00	TSH	21	ND942	
WEX 360	12	83	NDD						+	0.00	TSH	18	ND942	
WEX 360	12	86	NDD						+	0.00	TSH	25	L1107	
WEX 360	12	87	NDD						+	0.00	TSH	18	ND942	
WEX 360			NDD						+	0.00	TSH	20	L1107	
WEX 360	13	51	NDD						+	0.00	TSH	18	ND942	
WEX 360	13	82	NDD						+	0.00	TSH	18	ND942	
WEX 360	13	86	NDD						+	0.00	TSH	27	L1107	
WEX 360	13	87	NDD						+	0.00	TSH	20	L1107	
WEX 360	14	9	NDD						+	0.00	TSH	21	ND942	
WEX 360	14	12	NDD						+	0.00	TSH	18	ND942	
*X 360	14	64	NDD						+	0.00	TSH	18	ND942	
.X 360	14	86	NDD						+	0.00	TSH	27	L1107	
WEX 360	14	87	NDD						+	0.00	TSH	20	L1107	
WEX 360	15	8	NDD						+	0.00	TSH	21	ND942	
WEX 360	15	58	NDD						+	0.00	TSH	19	L1107	
WEX 360	15	86	NDD						+	0.00	TSH	27	L1107	
WEX 360	15	87	NDD						+	0.00	TSH	20	L1107	
WEX 360	16	19	NDD						+	0.00	TSH	21	ND942	
WEX 360	16	81	NDD						+	0.00	TSH	19	L1107	
WEX 360	16	86	NDD						+	0.00	TSH	27	L1107	
WEX 360	16	87	NDD						+	0.00	TSH	20	L1107	
WEX 360	17	50	NDD						+	0.00	TSH	18	ND942	
WEX 360	17	51	NDD						+	0.00	TSH	19	L1107	
WEX 360	17	86	NDD						+	0.00	TSH	18	ND942	
WEX 360	17	90	NDD						+	0.00	TSH	18	ND942	
WEX 360	18	29	NDD						+	0.00	TSH	18	ND942	
WEX 360	18	63	NDD						+	0.00	TSH	19	L1107	
WEX 360	18	86	NDD						+	0.00	TSH	27	L1107	
WEX 360	19	8	NDD						+	0.00	TSH	21	ND942	
WEX 360	19	13	NDD						+	0.00	TSH	18	ND942	
WEX 360	19	35	NDD						+	0.00	TSH	19	L1107	
WEX 360	19	86	NDD						+	0.00	TSH	27	L1107	
WEX 360	20	19	NDD						+	0.00	TSH	18	ND942	
WEX 360	20	81	NDD						+	0.00	TSH	18	ND942	
WEX 360	21	10	NDD						+	0.00	TSH	21	ND942	
WEX 360	21	22	NDD						+	0.00	TSH	18	ND942	
WEX 360	21	54	NDD						+	0.00	TSH	18	ND942	
WEX 360	21	60	NDD						+	0.00	TSH	21	ND942	
WEX 360	21	83	NDD						+	0.00	TSH	19	L1107	
WEX 360	21	86	NDD						+	0.00	TSH	18	ND942	
WEX 360	21	88	NDD						+	0.00	TSH	21	ND942	
WEX 360	22	34	NDD						+	0.00	TSH	18	ND942	
WEX 360	22	38	NDD						+	0.00	TSH	19	L1107	
WEX 360	22	62	NDD						+	0.00	TSH	19	L1107	
WEX 360	22	79	NDD						+	0.00	TSH	19	L1107	
WEX 360	23	70	NDD						+	0.00	TSH	18	ND942	
WEX 360			NDD						+	0.00	TSH	19	L1107	
WEX 360	23	80	NDD						+	0.00	TSH	18	ND942	
X 360	24	32	NDD						+	0.00	TSH	19	L1107	

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 WEXTEX EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
WEX 360	24	65	NDD					+	0.00	TSH	19	L1107	
WEX 360	25	19	NDD					+	0.00	TSH	21	ND942	
WEX 360	25	22	NDD					+	0.00	TSH	19	L1107	
WEX 360	25	66	NDD					+	0.00	TSH	18	ND942	
WEX 360	25	74	NDD					+	0.00	TSH	19	L1107	
WEX 360	26	52	NDD					+	0.00	TSH	19	L1107	
WEX 360	27	76	NDD					+	0.00	TSH	18	ND942	
WEX 360	28	16	NDD					+	0.00	TSH	19	L1107	
WEX 360	28	73	NDD					+	0.00	TSH	18	ND942	
WEX 360	29	42	NDD					+	0.00	TSH	18	ND942	
WEX 360	29	67	NDD					+	0.00	TSH	19	L1107	
WEX 360	29	82	NDD					+	0.00	TSH	21	ND942	
WEX 360	30	64	NDD					+	0.00	TSH	18	ND942	
WEX 360	30	82	NDD					+	0.00	TSH	18	ND942	
WEX 360	31	19	NDD					+	0.00	TSH	18	ND942	
WEX 360	31	68	NDD					+	0.00	TSH	19	L1107	
WEX 360	31	82	NDD					+	0.00	TSH	21	ND942	
WEX 360	32	18	NDD					+	0.00	TSH	19	L1107	
WEX 360	32	70	NDD					+	0.00	TSH	19	L1107	
WEX 360	33	16	NDD					+	0.00	TSH	21	ND942	
WEX 360	33	26	NDD					+	0.00	TSH	18	ND942	
WEX 360	33	78	NDD					+	0.00	TSH	21	ND942	
WEX 360	34	40	NDD					+	0.00	TSH	21	ND942	
WEX 360	34	44	NDD					+	0.00	TSH	19	L1107	
WEX 360			NDD					+	0.00	TSH	19	L1107	
WEX 360	34	48	NDD					+	0.00	TSH	19	L1107	
WEX 360	34	71	NDD					+	0.00	TSH	19	L1107	
WEX 360	35	37	NDD					+	0.00	TSH	19	L1107	
WEX 360			NDD					+	0.00	TSH	19	L1107	
WEX 360	35	41	NDD					+	0.00	TSH	18	ND942	
WEX 360	36	75	NDD					+	0.00	TSH	19	L1107	
WEX 360	37	21	NDD					+	0.00	TSH	19	L1107	
WEX 360	37	36	NDD					+	0.00	TSH	19	L1107	
WEX 360	37	65	NDD					+	0.00	TSH	19	L1107	
WEX 360	38	52	NDD					+	0.00	TSH	19	L1107	
WEX 360	38	54	NDD					+	0.00	TSH	19	L1107	
WEX 360	40	53	NDD					+	0.00	TSH	18	ND942	
WEX 360	41	41	NDD					+	0.00	TSH	19	L1107	
WEX 360	41	53	NDD					+	0.00	TSH	19	L1107	
WEX 360	42	37	NDD					+	0.00	TSH	19	L1107	
WEX 360	43	31	NDD					+	0.00	TSH	19	L1107	
WEX 360	43	56	NDD					+	0.00	TSH	19	L1107	
WEX 360	43	63	NDD					+	0.00	TSH	19	L1107	
WEX 360	44	51	NDD					+	0.00	TSH	18	ND942	
WEX 360	45	39	NDD					+	0.00	TSH	18	ND942	
WEX 360	46	53	NDD					+	0.00	TSH	21	ND942	

TOTAL TUBES FOUND = 169
TOTAL INDICATIONS FOUND = 186
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: B
Tape: 9/89 RES

QUERY: EDDY-360 INDICATIONS WEXTEX EXAMINATION >= 40% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
WEX 360	1	87	DDI	75	11.79	1	42	TSH	+ 0.00	TSH	14	ND942	
WEX 360			DDI	75	11.79	1	42	TSH	+ 0.00	TSH	17	ND942	
WEX 360			DDI	75	11.79	1	42	TSH	+ 0.00	TSH	20	L1107	
WEX 360	2	87	DDI	42	2.58	1	155	TSH	- 0.10	TSH	17	ND942	
WEX 360			DDI	82	14.45	1	128	TSH	+ 0.00	TSH	20	L1107	
WEX 360	3	87	DDI	48	3.74	1	129	TSH	- 0.10	TSH	17	ND942	
WEX 360			DDI	66	7.23	1	133	TSH	+ 0.10	TSH	20	L1107	
WEX 360	4	87	DDI	41	2.38	1	122	TSH	+ 0.00	TSH	17	ND942	
WEX 360			DDI	63	6.04	1	129	TSH	+ 0.00	TSH	20	L1107	
WEX 360	5	87	DDI	51	4.24	1	108	TSH	+ 0.00	TSH	17	ND942	
WEX 360			DDI	66	6.99	1	106	TSH	+ 0.00	TSH	20	L1107	

TOTAL TUBES FOUND = 5
TOTAL INDICATIONS FOUND = 11
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 PRE

QUERY: TUBES INSPECTED WITH EDDY-360 WASTAGE EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
WASTAGE	14	92	NDD					+	0.00	2C	12	N0942	
WASTAGE			3D1	24	2.98	1	48 1C	+	0.00	1C	12	N0942	
WASTAGE	17	90	3D1	18	1.76	1	77 2C	-	0.10	2C	12	N0942	
WASTAGE			0D1	29	4.27	1	47 1C	-	0.50	1C	12	N0942	
WASTAGE	21	88	0D1	19	1.96	1	12 2C	-	0.10	2C	12	N0942	
WASTAGE			0D1	24	2.92	1	42 1C	+	0.10	1C	12	N0942	
WASTAGE	25	11	0D1	24	2.94	1	91 1C	-	0.10	1C	12	N0942	
WASTAGE			0D1	12	0.87	1	124 2C	-	0.10	2C	12	N0942	
WASTAGE	27	85	0D1	28	4.05	1	95 2C	+	0.00	2C	12	N0942	
WASTAGE			0D1	24	3.09	1	162 1C	+	0.00	1C	12	N0942	
WASTAGE	28	85	0D1	17	1.47	1	61 2C	+	0.20	2C	12	N0942	
WASTAGE			0D1	17	1.48	1	136 1C	-	0.50	1C	12	N0942	
WASTAGE	30	16	0D1	16	1.28	1	125 2C	-	0.30	2C	12	N0942	
WASTAGE			0D1	20	2.19	1	44 1C	-	0.30	1C	12	N0942	
WASTAGE	31	16	0D1	17	1.38	1	52 2C	+	0.10	2C	12	N0942	
WASTAGE			0D1	26	3.61	1	134 1C	-	0.10	1C	12	N0942	
WASTAGE	32	16	0D1	14	1.02	1	166 2C	-	0.10	2C	12	N0942	
WASTAGE			0D1	27	3.86	1	93 1C	-	0.20	1C	12	N0942	
WASTAGE	33	79	0D1	14	1.03	1	135 2C	-	0.10	2C	12	N0942	
WASTAGE			0D1	18	1.57	1	39 1C	-	0.40	1C	12	N0942	
WASTAGE	34	16	0D1	17	1.38	1	80 2C	-	0.20	2C	12	N0942	
WASTAGE			0D1	11	0.84	1	142 1C	+	0.10	1C	12	N0942	
WASTAGE			0D1	11	0.83	1	89 1C	+	0.00	1C	12	N0942	
WASTAGE	34	17	0D1	17	1.50	1	147 2C	-	0.30	2C	12	N0942	
WASTAGE			0D1	25	3.27	1	113 1C	-	0.10	1C	12	N0942	
WASTAGE	35	18	0D1	18	1.66	1	60 2C	+	0.30	2C	12	N0942	
WASTAGE			NDD					+	0.00	1C	12	N0942	
WASTAGE	35	19	NDD					+	0.00	2C	12	N0942	
WASTAGE			0D1	21	2.23	1	123 1C	-	0.10	1C	12	N0942	
WASTAGE	36	20	NDD					+	0.00	2C	12	N0942	
WASTAGE			0D1	19	1.94	1	34 1C	-	0.20	1C	12	N0942	
WASTAGE	36	22	NDD					+	0.00	2C	12	N0942	
WASTAGE			0D1	29	4.42	1	54 1C	-	0.10	1C	12	N0942	
WASTAGE	36	75	0D1	14	1.08	1	90 2C	-	0.20	2C	12	N0942	
WASTAGE			0D1	22	2.52	1	41 1C	+	0.10	1C	12	N0942	
WASTAGE	38	21	0D1	15	1.09	1	71 2C	+	0.10	2C	12	N0942	
WASTAGE			NDD					+	0.00	1C	12	N0942	
WASTAGE	39	26	NDD					+	0.00	2C	12	N0942	
WASTAGE			0D1	18	1.55	1	33 1C	-	0.30	1C	12	N0942	
WASTAGE	40	28	0D1	27	3.76	1	138 2C	-	0.10	2C	12	N0942	
WASTAGE			0D1	17	1.51	1	89 1C	+	0.20	1C	12	N0942	
WASTAGE	40	71	0D1	14	1.06	1	121 2C	+	0.30	2C	12	N0942	
WASTAGE			NDD					+	0.00	1C	12	N0942	
WASTAGE	41	30	0D1	11	0.83	1	165 2C	+	0.20	2C	12	N0942	
WASTAGE			NDD					+	0.00	1C	12	N0942	
WASTAGE	42	28	0D1	23	2.83	1	125 2C	-	0.40	2C	12	N0942	
WASTAGE			NDD					+	0.00	1C	12	N0942	
WASTAGE	42	31	0D1	25	3.26	1	135 2C	-	0.10	2C	12	N0942	
WASTAGE			0D1	33	5.46	1	59 1C	-	0.30	1C	12	N0942	
WASTAGE	42	32	0D1	28	4.02	1	146 2C	-	0.30	2C	12	N0942	
WASTAGE			NDD					+	0.00	1C	12	N0942	
WASTAGE	42	34	0D1	11	0.83	1	166 2C	+	0.00	2C	12	N0942	
WASTAGE			0D1	21	2.34	1	70 1C	-	6.80	1C	12	N0942	
WASTAGE	43	30	0D1	27	3.73	1	119 2C	-	0.20	2C	12	N0942	
WASTAGE			0D1	20	2.08	1	109 1C	+	0.30	1C	12	N0942	
WASTAGE	43	31	0D1	23	2.81	1	141 2C	-	0.50	2C	12	N0942	
WASTAGE			0D1	20	2.04	1	159 1C	-	0.10	1C	12	N0942	
WASTAGE	44	57	NDD					+	0.00	2C	12	N0942	
WASTAGE			0D1	18	1.57	1	147 1C	-	0.10	1C	12	N0942	
WASTAGE	44	60	0D1	19	2.00	1	163 2C	+	0.40	2C	12	N0942	
WASTAGE			0D1	27	3.76	1	59 1C	-	0.20	1C	12	N0942	
WASTAGE	44	62	0D1	19	1.91	1	161 2C	+	0.00	2C	12	N0942	
WASTAGE			NDD					+	0.00	1C	12	N0942	
WASTAGE	45	36	0D1	21	2.24	1	126 2C	-	4.00	2C	12	N0942	
WASTAGE			NDD					+	0.00	1C	12	N0942	
WASTAGE	45	39	0D1	16	1.64	1	156 2C	-	2.10	2C	12	N0942	
WASTAGE			0D1	18	1.57	1	160 1C	-	0.30	1C	12	N0942	
WASTAGE	45	45	0D1	27	3.93	1	132 2C	-	0.20	2C	12	N0942	
WASTAGE			0D1	16	1.17	1	127 1C	-	0.20	1C	12	N0942	

TOTAL TUBES FOUND = 34
TOTAL INDICATIONS FOUND = 69
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
tage: 9/89 PRE

QUERY: TUBES INSPECTED WITH EDDY-360 WASTAGE CONTROL EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
WAST CON	2	93	ODI	17	1.47	1	138	2C	-	0.10	2C	13	N0942	
WAST CON			ODI	29	4.19	1	116	1C	-	0.20	1C	13	N0942	
WAST CON	7	94	NDD						+	0.00	2C	13	N0942	
WAST CON			ODI	25	3.16	1	113	1C	-	0.20	1C	13	N0942	
WAST CON	10	92	NDD						+	0.00	2C	13	N0942	
WAST CON			ODI	20	2.18	1	156	1C	-	0.10	1C	13	N0942	
WAST CON	12	92	ODI	10	0.76	1	142	2C	+	0.00	2C	13	N0942	
WAST CON			ODI	27	3.70	1	121	1C	-	0.20	1C	13	N0942	
WAST CON	15	90	NDD						+	0.00	2C	13	N0942	
WAST CON			ODI	19	1.96	1	128	1C	+	0.00	1C	13	N0942	
WAST CON	18	89	NDD						+	0.00	2C	13	N0942	
WAST CON			ODI	25	3.16	1	126	1C	-	0.10	1C	13	N0942	
WAST CON	19	90	NDD						+	0.00	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON	20	89	NDD						+	0.00	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON	24	85	NDD						+	0.00	2C	13	N0942	
WAST CON			ODI	22	2.88	1	88	1C	-	0.10	1C	13	N0942	
WAST CON	28	13	ODI	23	2.84	1	156	2C	-	0.10	2C	14	N0942	
WAST CON			NDD						+	0.00	1C	14	N0942	
WAST CON	29	14	NDD						+	0.00	2C	14	N0942	
WAST CON			ODI	26	3.71	1	125	1C	-	0.20	1C	14	N0942	
WAST CON	29	84	NDD						+	0.00	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON	30	14	ODI	9	0.65	1	159	2C	-	0.10	2C	14	N0942	
WAST CON			ODI	29	4.29	1	140	1C	-	0.20	1C	14	N0942	
WAST CON	31	15	ODI	34	5.87	1	117	2C	-	0.10	2C	14	N0942	
WAST CON			ODI	30	4.56	1	135	1C	-	0.10	1C	14	N0942	
WAST CON	35	17	ODI	27	3.80	1	139	2C	+	0.00	2C	14	N0942	
WAST CON			NDD						+	0.00	1C	14	N0942	
WAST CON	35	78	NDD						+	0.00	2C	13	N0942	
\ST CON			NDD						+	0.00	1C	13	N0942	
.ST CON	37	19	ODI	24	3.14	1	113	2C	-	0.20	2C	14	N0942	
WAST CON			ODI	11	0.84	1	136	1C	+	0.00	1C	14	N0942	
WAST CON	37	23	NDD						+	0.00	2C	14	N0942	
WAST CON			ODI	22	2.66	1	127	1C	-	0.40	1C	14	N0942	
WAST CON	37	74	ODI	16	1.30	1	164	2C	-	0.30	2C	13	N0942	
WAST CON			ODI	19	1.89	1	143	1C	+	0.20	1C	13	N0942	
WAST CON	38	22	NDD						+	0.00	2C	14	N0942	
WAST CON			NDD						+	0.00	1C	14	N0942	
WAST CON	38	23	NDD						+	0.00	2C	14	N0942	
WAST CON			ODI	18	1.74	1	152	1C	-	5.00	1C	14	N0942	
WAST CON	41	27	NDD						+	0.00	2C	13	N0942	
WAST CON			ODI	24	3.25	1	133	1C	+	0.10	1C	13	N0942	
WAST CON	41	29	ODI	19	2.09	1	149	2C	+	0.00	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON			ODI	20	2.19	1	137	2C	+	0.00	2C	14	N0942	
WAST CON			ODI	17	1.32	1	106	1C	+	0.00	1C	14	N0942	
WAST CON	42	29	ODI	26	3.78	1	136	2C	-	0.20	2C	13	N0942	
WAST CON			ODI	32	5.36	1	82	1C	+	0.10	1C	13	N0942	
WAST CON	42	59	ODI	17	1.59	1	112	2C	+	0.30	2C	13	N0942	
WAST CON			ODI	17	1.60	1	148	1C	-	0.10	1C	13	N0942	
WAST CON	42	67	NDD						+	0.00	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON	43	33	ODI	30	4.88	1	132	2C	-	0.10	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON	43	34	ODI	17	1.53	1	165	2C	-	0.10	2C	13	N0942	
WAST CON			ODI	24	3.34	1	130	1C	+	0.20	1C	13	N0942	
WAST CON	43	35	ODI	33	5.63	1	118	2C	-	0.10	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON	44	53	NDD						+	0.00	2C	13	N0942	
WAST CON			ODI	20	2.25	1	94	1C	-	0.20	1C	13	N0942	
WAST CON	45	38	NDD						+	0.00	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON	45	41	ODI	23	3.03	1	118	2C	+	0.00	2C	13	N0942	
WAST CON			NDD						+	0.00	1C	13	N0942	
WAST CON	45	48	NDD						+	0.00	2C	13	N0942	
WAST CON			ODI	12	0.93	1	102	1C	+	0.00	1C	13	N0942	
WAST CON	45	50	ODI	17	1.41	1	140	2C	-	0.20	2C	13	N0942	
/ ST CON			ODI	19	2.06	1	144	1C	+	0.20	1C	13	N0942	

Plant: Beaver Valley Unit 1 Steam Generator: A
Outage: 9/89 PRE

QUERY: TUBES INSPECTED WITH EDDY-360 WASTAGE CONTROL EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
WAST CON	45	53	NDD						+	0.00	2C	13	ND942	
WAST CON			OD1	18	1.85	1	122	1C	-	0.10	1C	13	ND942	
WAST CON	45	59	NDD						+	0.00	2C	13	ND942	
WAST CON			NDD						+	0.00	1C	13	ND942	
WAST CON	46	42	OD1	45	10.23	1	122	2C	-	0.20	2C	13	ND942	
WAST CON			NDD						+	0.00	1C	13	ND942	

TOTAL TUBES FOUND = 37
TOTAL INDICATIONS FOUND = 76
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Stage: 9/89 PRE

QUERY: EDDY-360 INDICATIONS WASTAGE CONTROL EXAMINATION >= 40% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	TAPE	ANLST	COMMENTS
WAST COM	46	42	ODI	45	10.23	1	122	2C - 0.20	2C	13	ND942	

TOTAL TUBES FOUND = 1
TOTAL INDICATIONS FOUND = 1
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 PRE

QUERY: EDDY-360 INDICATIONS WASTAGE CONTROL EXAMINATION 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
WAST CON	2	93	001	29	4.19	1	116	1C	- 0.20	1C	13	ND942	
WAST CON	7	94	001	25	3.16	1	113	1C	- 0.20	1C	13	ND942	
WAST CON	10	92	001	20	2.18	1	156	1C	- 0.10	1C	13	ND942	
WAST CON	12	92	001	27	3.70	1	121	1C	- 0.20	1C	13	ND942	
WAST CON	18	89	001	25	3.16	1	126	1C	- 0.10	1C	13	ND942	
WAST CON	24	85	001	22	2.88	1	88	1C	- 0.10	1C	13	ND942	
WAST CON	28	13	001	23	2.84	1	156	2C	- 0.10	2C	14	ND942	
WAST CON	29	14	001	26	3.71	1	125	1C	- 0.20	1C	14	ND942	
WAST CON	30	14	001	29	4.29	1	140	1C	- 0.20	1C	14	ND942	
WAST CON	31	15	001	34	5.87	1	117	2C	- 0.10	2C	14	ND942	
WAST CON			001	30	4.56	1	135	1C	- 0.10	1C	14	ND942	
WAST CON	35	17	001	27	3.80	1	139	2C	+ 0.00	2C	14	ND942	
WAST CON	37	19	001	24	3.14	1	113	2C	- 0.20	2C	14	ND942	
WAST CON	37	23	001	22	2.66	1	127	1C	- 0.40	1C	14	ND942	
WAST CON	41	27	001	24	3.25	1	133	1C	+ 0.10	1C	13	ND942	
WAST CON	41	29	001	20	2.19	1	137	2C	+ 0.00	2C	14	ND942	
WAST CON	42	29	001	26	3.78	1	136	2C	- 0.20	2C	13	ND942	
WAST CON			001	32	5.36	1	82	1C	+ 0.10	1C	13	ND942	
WAST CON	43	33	001	30	4.88	1	132	2C	- 0.10	2C	13	ND942	
WAST CON	43	34	001	24	3.34	1	130	1C	+ 0.20	1C	13	ND942	
WAST CON	43	35	001	33	5.63	1	118	2C	- 0.10	2C	13	ND942	
WAST CON	44	53	001	20	2.25	1	94	1C	- 0.20	1C	13	ND942	
WASY CON	45	41	001	23	3.03	1	118	2C	+ 0.00	2C	13	ND942	

TOTAL TUBES FOUND = 21
TOTAL INDICATIONS FOUND = 23
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Tape: 9/89 PRE

QUERY: EDDY-360 INDICATIONS WASTAGE CONTROL EXAMINATION < 20% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
WAST CDN	2	93	001	17	1.47	1	138	2C	-	0.10	2C	13	ND942	
WAST CDN	12	92	001	10	0.76	1	142	2C	+	0.00	2C	13	ND942	
WAST CDN	15	90	001	19	1.96	1	128	1C	+	0.00	1C	13	ND942	
WAST CDN	30	14	001	9	0.65	1	159	2C	-	0.10	2C	14	ND942	
WAST CDN	37	19	001	11	0.84	1	136	1C	+	0.00	1C	14	ND942	
WAST CDN	37	74	001	16	1.30	1	164	2C	-	0.30	2C	13	ND942	
WAST CDN			001	19	1.89	1	143	1C	+	0.20	1C	13	ND942	
WAST CDN	38	23	001	18	1.74	1	152	1C	-	5.00	1C	14	ND942	
WAST CDN	41	29	001	19	2.09	1	149	2C	+	0.00	2C	13	ND942	
WAST CDN			001	17	1.32	1	106	1C	+	0.00	1C	14	ND942	
WAST CDN	42	59	001	17	1.59	1	112	2C	+	0.30	2C	13	ND942	
WAST CDN			001	17	1.60	1	148	1C	-	0.10	1C	13	ND942	
WAST CDN	43	34	001	17	1.53	1	165	2C	-	0.10	2C	13	ND942	
WAST CDN	45	48	001	12	0.93	1	102	1C	+	0.00	1C	13	ND942	
WAST CDN	45	50	001	17	1.41	1	140	2C	-	0.20	2C	13	ND942	
WAST CDN			001	19	2.06	1	144	1C	+	0.20	1C	13	ND942	
WAST CDN	45	53	001	18	1.85	1	122	1C	-	0.10	1C	13	ND942	

TOTAL TUBES FOUND = 13
TOTAL INDICATIONS FOUND = 17
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Date: 9/89 PRE

REPT: EDDY-360 INDICATIONS WASTAGE EXAMINATION >= 40% TW

TOTAL TUBES FOUND = 0
TOTAL INDICATIONS FOUND = 0
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Stage: 9/89 PRE

QUERY: EDDY-360 INDICATIONS WASTAGE EXAMINATION 20 TO 39% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
WASTAGE	14	92	001	24	2.98	1	48	1C	+ 0.00	1C	12	N0942	
WASTAGE	17	90	001	29	4.27	1	47	1C	- 0.50	1C	12	N0942	
WASTAGE	21	88	001	24	2.92	1	42	1C	+ 0.10	1C	12	N0942	
WASTAGE	25	11	001	24	2.94	1	91	1C	- 0.10	1C	12	N0942	
WASTAGE	27	85	001	28	4.05	1	95	2C	+ 0.00	2C	12	N0942	
WASTAGE			001	24	3.09	1	162	1C	+ 0.00	1C	12	N0942	
WASTAGE	30	16	001	20	2.19	1	44	1C	- 0.30	1C	12	N0942	
WASTAGE	31	16	001	26	3.61	1	134	1C	- 0.10	1C	12	N0942	
WASTAGE	32	16	001	27	3.86	1	93	1C	- 0.20	1C	12	N0942	
WASTAGE	34	17	001	25	3.27	1	113	1C	- 0.10	1C	12	N0942	
WASTAGE	35	19	001	21	2.23	1	123	1C	- 0.10	1C	12	N0942	
WASTAGE	36	22	001	29	4.42	1	54	1C	- 0.10	1C	12	N0942	
WASTAGE	36	75	001	22	2.52	1	41	1C	+ 0.10	1C	12	N0942	
WASTAGE	40	28	001	27	3.76	1	138	2C	- 0.10	2C	12	N0942	
WASTAGE	42	28	001	23	2.83	1	125	2C	- 0.40	2C	12	N0942	
WASTAGE	42	31	001	25	3.26	1	135	2C	- 0.10	2C	12	N0942	
WASTAGE			001	33	5.46	1	59	1C	- 0.30	1C	12	N0942	
WASTAGE	42	32	001	28	4.02	1	146	2C	- 0.30	2C	12	N0942	
WASTAGE	42	34	001	21	2.34	1	70	1C	- 6.80	1C	12	N0942	
WASTAGE	43	30	001	27	3.73	1	119	2C	- 0.20	2C	12	N0942	
WASTAGE			001	20	2.08	1	109	1C	+ 0.30	1C	12	N0942	
WASTAGE	43	31	001	23	2.81	1	141	2C	- 0.50	2C	12	N0942	
WASTAGE			001	20	2.04	1	159	1C	- 0.10	1C	12	N0942	
WASTAGE	44	60	001	27	3.76	1	59	1C	- 0.20	1C	12	N0942	
WASTAGE	45	36	001	21	2.24	1	126	2C	- 4.00	2C	12	N0942	
WASTAGE	45	45	001	27	3.93	1	132	2C	- 0.20	2C	12	N0942	

TOTAL TUBES FOUND = 22
TOTAL INDICATIONS FOUND = 26
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: A
Stage: 9/89 PRE

QUERY: EDDY-360 INDICATIONS WASTAGE EXAMINATION < 20% TW

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION			EXTENT	TAPE	ANLST	COMMENTS
WASTAGE	17	90	001	18	1.76	1	77	2C	-	0.10	2C	12	ND942	
WASTAGE	21	88	001	19	1.96	1	12	2C	-	0.10	2C	12	ND942	
WASTAGE	25	11	001	12	0.87	1	124	2C	-	0.10	2C	12	ND942	
WASTAGE	28	85	001	17	1.47	1	61	2C	+	0.20	2C	12	ND942	
WASTAGE			001	17	1.48	1	136	1C	-	0.50	1C	12	ND942	
WASTAGE	30	16	001	16	1.28	1	125	2C	-	0.30	2C	12	ND942	
WASTAGE	31	16	001	17	1.38	1	52	2C	+	0.10	2C	12	ND942	
WASTAGE	32	16	001	14	1.02	1	166	2C	-	0.10	2C	12	ND942	
WASTAGE	33	79	001	14	1.03	1	135	2C	-	0.10	2C	12	ND942	
WASTAGE			001	18	1.57	1	39	1C	-	0.40	1C	12	ND942	
WASTAGE	34	16	001	17	1.38	1	80	2C	-	0.20	2C	12	ND942	
WASTAGE			001	11	0.84	1	142	1C	+	0.10	1C	12	ND942	
WASTAGE			001	11	0.83	1	89	1C	+	0.00	1C	12	ND942	
WASTAGE	34	17	001	17	1.50	1	147	2C	-	0.30	2C	12	ND942	
WASTAGE	35	18	001	18	1.66	1	60	2C	+	0.30	2C	12	ND942	
WASTAGE	36	20	001	19	1.94	1	34	1C	-	0.20	1C	12	ND942	
WASTAGE	36	75	001	14	1.08	1	90	2C	-	0.20	2C	12	ND942	
WASTAGE	38	21	001	15	1.09	1	71	2C	+	0.10	2C	12	ND942	
WASTAGE	39	26	001	18	1.55	1	33	1C	-	0.30	1C	12	ND942	
WASTAGE	40	28	001	17	1.51	1	89	1C	+	0.20	1C	12	ND942	
WASTAGE	40	71	001	14	1.06	1	121	2C	+	0.30	2C	12	ND942	
WASTAGE	41	30	001	11	0.83	1	165	2C	+	0.20	2C	12	ND942	
WASTAGE	42	34	001	11	0.83	1	166	2C	+	0.00	2C	12	ND942	
WASTAGE	44	57	001	18	1.57	1	147	1C	-	0.10	1C	12	ND942	
WASTAGE	44	60	001	19	2.00	1	163	2C	+	0.40	2C	12	ND942	
WASTAGE	44	62	001	19	1.91	1	161	2C	+	0.00	2C	12	ND942	
WASTAGE	45	39	001	16	1.64	1	156	2C	-	2.10	2C	12	ND942	
WASTAGE			001	18	1.57	1	160	1C	-	0.30	1C	12	ND942	
WASTAGE	45	45	001	16	1.17	1	127	1C	-	0.20	1C	12	ND942	

TOTAL TUBES FOUND = 24
TOTAL INDICATIONS FOUND = 29
TOTAL TUBES IN INPUT FILE = 3388

Plant: Beaver Valley Unit 1 Steam Generator: C
Stage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 CL DEPLUGGED TUBES EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
CL PLUGP	1	62	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	1	66	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	2	71	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	10	60	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	11	47	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	11	92	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	24	85	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	24	87	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	30	16	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	31	14	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	31	15	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	31	16	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	31	82	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	32	78	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	35	76	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	37	22	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	41	28	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	43	32	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	44	40	NDD					+	0.00	TSH	8	ND942	
CL PLUGP	45	49	NDD					+	0.00	TSH	8	ND942	

TOTAL TUBES FOUND = 20
TOTAL INDICATIONS FOUND = 20
TOTAL TUBES IN INPUT FILE = 3388

ATTACHMENT V

Plant: BEAVER VALLEY UNIT 1 Steam Generator: A

rder: Sort by ROW, COL

Title: TUBES PLUGGED - 7TH REFUELING OUTAGE (9/89 OUTAGE)

NO.	ROW	COL
1.	1-	20
2.	1-	28
3.	1-	42
4.	1-	46
5.	1-	64
6.	1-	66
7.	1-	77
8.	1-	83
9.	2-	32
10.	2-	34
11.	2-	46
12.	2-	63
13.	3-	1
14.	3-	2
15.	3-	39
16.	3-	56
17.	3-	75
18.	3-	78
19.	4-	8
20.	4-	13
21.	4-	18
22.	4-	25
23.	4-	43
24.	4-	64
25.	5-	6
26.	5-	37
27.	5-	38
28.	5-	45
29.	6-	4
30.	6-	31
31.	6-	36
32.	6-	37
33.	6-	40
34.	6-	77
35.	7-	9
36.	7-	34
37.	7-	45
38.	7-	60
39.	8-	2
40.	8-	33
41.	10-	14
42.	10-	27
43.	10-	67
44.	11-	34
45.	11-	41
46.	11-	45
47.	12-	38
48.	12-	45
49.	14-	35
50.	15-	31
51.	15-	56
52.	17-	59
53.	19-	14
54.	19-	63
55.	20-	25
56.	20-	28
57.	22-	74
58.	24-	72
59.	24-	76
60.	24-	85
61.	25-	18
62.	25-	30
63.	26-	59
64.	26-	62
65.	27-	34
66.	27-	72
67.	27-	74
68.	28-	19
69.	28-	26
70.	29-	20
71.	29-	24
72.	30-	36
73.	30-	43
74.	31-	18
75.	31-	73
76.	32-	42
77.	32-	67
78.	33-	32
79.	33-	77
80.	34-	37
81.	35-	30
82.	35-	31
83.	37-	23
84.	37-	25
85.	37-	32
86.	43-	38

Plant: BEAVER VALLEY UNIT 1 Steam Generator: B

rder: Sort by ROW, COL

Title: TUBES PLUGGED - 7TH REFUELING OUTAGE (9/89 OUTAGE)

NO.	ROW	COL
1.	1	9
2.	1	19
3.	1	87
4.	1	91
5.	2	37
6.	2	87
7.	3	13
8.	3	14
9.	3	17
10.	3	19
11.	3	87
12.	4	2
13.	4	22
14.	4	87
15.	5	7
16.	5	70
17.	5	87
18.	6	10
19.	6	15
20.	6	27
21.	6	91
22.	7	33
23.	9	7
24.	9	43
25.	9	76
26.	10	58
27.	11	30
28.	12	10
29.	12	13
30.	12	18
31.	14	9
32.	15	8
33.	16	19
34.	19	8
35.	21	10
36.	21	60
37.	21	88
38.	25	19
39.	29	82
40.	31	82
41.	32	16
42.	33	16
43.	33	78
44.	34	40
45.	46	53

Plant: BEAVER VALLEY UNIT 1 Steam Generator: C

Order: Sort by ROW, COL

Title: TUBES PLUGGED - 7TH REFUELING OUTAGE (9/89 OUTAGE)

NO.	ROW	COL
1.	1-	3
2.	1-	4
3.	3-	1
4.	3-	2
5.	4-	51
6.	4-	53
7.	5-	2
8.	10-	57
9.	14-	3
10.	15-	6
11.	15-	59
12.	15-	70
13.	21-	21
14.	26-	10
15.	28-	15
16.	34-	53
17.	42-	66
18.	44-	55
19.	44-	56

ATTACHMENT VI

TABLE 1

EDDY-360 PLUG INDICATIONS
RSG-A INLET

NOTE: All plugs listed below were removed and replaced with heat Number 7042-2 plugs during this outage.

PLUG ID	TYPE IND.	% TWD	IND LOC.	EXISTING PLUG INFO. HEAT NO.	INSERTION DATE
1-9	IDI	82	HEEL	W-592-1	1/25/88
1-15	IDI	100	HEEL	W-592-1	1/25/88
1-25	IDI	99	HEEL	W-592-1	1/25/88
1-27	IDI	99	HEEL	W-592-1	1/25/88
1-29	IDI	90	HEEL	W-592-1	1/25/88
1-32	IDI	100	HEEL	W-592-1	1/25/88
1-35	IDI	100	HEEL	W-592-1	1/25/88
1-36	IDI	29	HEEL	W-592-1	1/25/88
1-37		*		W-592-1	1/25/88
1-39		*		W-592-1	1/25/88
1-40		*		W-592-1	1/25/88
1-44		*		2848-2	1/25/88
1-48	IDI	91	HEEL	2848-2	1/25/88
1-50	IDI	51	HEEL	2848-2	1/25/88
1-52	IDI	100	HEEL	W-592-1	1/25/88
1-55	IDI	99	HEEL	W-592-1	1/25/88
1-56	IDI	90	HEEL	W-592-1	1/25/88
1-58		NDD		W-592-1	1/25/88
1-68	IDI	95	HEEL	W-592-1	1/25/88
1-69	IDI	100	HEEL	W-592-1	1/25/88
1-72	IDI	98	HEEL	W-592-1	1/25/88
1-78	IDI	98	HEEL	W-592-1	1/25/88
1-79	IDI	99	HEEL	W-592-1	1/25/88
1-80	IDI	88	HEEL	W-592-1	1/25/88
1-81	IDI	39/100	TOE/HEEL	W-592-1	1/25/88
1-82	IDI	51/100	TOE/HEEL	W-592-1	1/25/88
2-41		*		W-592-1	1/25/88
2-49	IDI	84	HEEL	2848-2	1/25/88
10-43		*		2848-2	1/25/88
15-5	IDI	81/52	HEEL/HEEL	W-592-1	7/03/86
21-8	IDI	43	HEEL	W-592-1	7/03/86
24-37	IDI	100	HEEL	W-592-1	7/03/86
25-10	IDI	100	HEEL	2848-2	1/25/88
28-10		NDD		2848-2	1/25/88
29-11	IDI	100	HEEL	W-592-1	7/03/86
29-13		NDD		W-592-1	7/03/86
30-83		*		W-592-1	7/03/86
31-17		NDD		2848-2	1/25/88
33-42	IDI	100	HEEL	W-592-1	1/25/88
33-78		NDD		W-592-1	7/03/86

TABLE 1 (Cont'd)

EDDY-360 PLUG INDICATIONS
RSG-A INLET

NOTE: All plugs listed below were removed and replaced with heat Number 7042-2 plugs during this outage.

				EXISTING PLUG INFO.	
PLUG ID	TYPE IND.	% TWD	IND LOC.	HEAT NO.	INSERTION DATE
34-18	IDI	100	HEEL	2848-2	1/25/88
34-77	IDI	100	HEEL	W-592-1	7/03/86
37-21	IDI	100	HEEL	2848-2	1/25/88
42-30	IDI	100	HEEL	W-592-1	7/03/86
44-35	IDI	92	HEEL	W-592-1	7/03/86
44-56	IDI	100	HEEL	W-592-1	1/25/88
45-56	IDI	100	HEEL	W-592-1	7/03/86
46-48	IDI	82	HEEL	2848-2	1/25/88

TABLE 2

EDDY-360 PLUG INDICATIONS
RSG-B INLET

NOTE: All plugs listed below were removed and replaced with heat Number 7042-2 plugs during this outage.

				EXISTING PLUG INFO.	
PLUG ID	TYPE IND.	% TWD	IND LOC.	HEAT NO.	INSERTION DATE
1-8	IDI	65	HEEL	2848-2	2/08/88
1-12	IDI	87	HEEL	2848-2	2/08/88
1-22	IDI	21	HEEL	2848-2	2/08/88
1-36	IDI	65	HEEL	2848-2	2/08/88
1-39	IDI	82	HEEL	2848-2	2/08/88
1-46	IDI	62	HEEL	2848-2	2/08/88
1-58	IDI	75	HEEL	2848-2	2/08/88
1-69	IDI	78	HEEL	2848-2	2/08/88
1-77	IDI	86	HEEL	2848-2	2/08/88
2-20	IDI	55	HEEL	2848-2	2/08/88
2-59	IDI	74	HEEL	2848-2	2/08/88
4-1	IDI	71	HEEL	2848-2	2/08/88
4-20	IDI	45/77	HEEL	2848-2	2/08/88
5-1	IDI	95	HEEL	2848-2	2/08/88
5-9	IDI	54	HEEL	2848-2	2/08/88
5-23	IDI	67	HEEL	2848-2	2/08/88
15-90		NDD		W-592-1	6/16/86

TABLE 2 (Cont'd)

EDDY-360 PLUG INDICATIONS
RSG-B INLET

NOTE: All plugs listed below were removed and replaced with heat Number 7042-2 plugs during this outage.

PLUG ID	TYPE IND.	% TWD	IND LOC.	EXISTING PLUG INFO. HEAT NO.	INSERTION DATE
18-6	IDI	74	HEEL	2848-2	2/08/88
22-7	IDI	88	HEEL	2848-2	2/08/88
23-87	IDI	72	HEEL	2848-2	2/08/88
25-9		NDD		W-592-1	6/16/86
25-11	IDI	19	HEEL	W-592-1	6/16/86
26-11		NDD		W-592-1	6/16/86
26-86		NDD		W-592-1	6/16/86
31-16	IDI	88	HEEL	2848-2	2/08/88
31-79		NDD		W-592-1	6/16/86
32-17	IDI	32	TOE	W-592-1	6/16/86
32-79		NDD		W-592-1	6/16/86
33-77		NDD		W-592-1	6/16/86
35-77	IDI	12/25	HEEL	NX2960 or 38347-1	9/83
36-77	IDI	83	HEEL	W-592-1	6/16/86
40-45		NDD		W-592-1	6/16/86
40-50	IDI	20/83	TOE/HEEL	W-592-1	6/16/86
40-51		NDD		W-592-1	6/16/86
45-48		NDD		W-592-1	6/16/86
46-54	IDI	24/55	HEEL/HEEL	NX2960 or 38347-1	9/83

TABLE 3

EDDY-360 PLUG INDICATIONS
RSG-C INLET

NOTE: All plugs listed below were removed and replaced with heat Number 7042-2 plugs during this outage.

PLUG ID	TYPE IND.	% TWD	IND LOC.	EXISTING PLUG INFO. HEAT NO.	INSERTION DATE
1-57		*		2848-2	2/04/88
1-62		*		2848-2	2/04/88
1-66		*		2848-2	2/04/88
2-71		*		2848-2	2/04/88

TABLE 3 (Cont'd)

EDDY-360 PLUG INDICATIONS
RSG-C INLET

NOTE: All plugs listed below were removed and replaced with heat Number 7042-2 plugs during this outage.

PLUG ID	TYPE IND.	% TWD	IND LOC.	EXISTING PLUG INFO. HEAT NO.	INSERTION DATE
3-3		*		2848-2	2/04/88
4-54		*		2848-2	2/04/88
10-60		*		2848-2	2/04/88
11-47		*		2848-2	2/04/88
11-51		*		2848-2	2/04/88
11-52		*		2848-2	2/04/88
11-92		*		2848-2	2/04/88
12-51		*		2848-2	2/04/88
24-85		*		2848-2	2/04/88
24-87		*		2848-2	2/04/88
30-16		*		W-592-1	7/03/86
31-13		*		NX2960/38347-1	9/83
31-14		*		NX2960/38347-1	9/83
31-15		*		NX2960/38347-1	9/83
31-16		*		NX2960/38347-1	9/83
31-82		*		NX2960/38347-1	9/83
32-78		*		2848-2	2/04/88
35-76		*		W-592-1	7/03/86
37-22		*		2848-2	2/04/88
41-28		*		W-592-1	7/03/86
43-32		*		W-592-1	7/03/86
44-40		*		NX2960/38347-1	9/83
45-49		*		W-592-1	7/03/86
				W-592-1	7/03/86

LEGEND FOR TABLES 1 THROUGH 3

HEEL	=	HEEL TRANSITION OF THE PLUG (END CLOSEST TO THE TUBE END)
IDI	=	INSIDE DIAMETER INDICATION
IND.	=	INDICATION
LOC.	=	LOCATION
NDD	=	NO DETECTABLE DEGRADATION
% TWD	=	PERCENT THROUGH-WALL DEPTH OF THE INDICATION
TOE	=	TOE TRANSITION OF THE PLUG (END CLOSEST TO THE TOP OF THE TUBESHEET)
*	=	NOT INSPECTED DURING THIS OUTAGE

ATTACHMENT VII

Plant: Beaver Valley Unit 1 Steam Generator: A
Stage: 9/89 RES

QUERY: TUBES INSPECTED WITH EDDY-360 DEPLUGGED CL TUBE EXAMINATION

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT	TAPE	ANLST	COMMENTS
CL PLUGP	1	9	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	15	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	25	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	27	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	29	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	32	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	35	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	36	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	37	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	39	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	40	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	44	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	48	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	58	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	68	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	69	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	72	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	78	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	79	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	80	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	81	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	1	82	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	2	41	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	2	49	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	10	43	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	24	37	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	24	62	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	29	13	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	30	83	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	31	17	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	33	42	NDD					+	0.00	TSC	11	L1107	
PLUGP	33	78	NDD					+	0.00	TSC	11	L1107	
PLUGP	34	18	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	34	77	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	37	21	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	42	30	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	44	35	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	44	56	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	45	56	NDD					+	0.00	TSC	11	L1107	
CL PLUGP	46	48	NDD					+	0.00	TSC	11	L1107	

TOTAL TUBES FOUND = 40
TOTAL INDICATIONS FOUND = 40
TOTAL TUBES IN INPUT FILE = 3388