- Owner: Public Service Electric & Gas Co., 80 Park Plaza Newark, N.J. 07101
- Plant: Salem Generating Station P.O. Box 236, Hancock's Bridge, N.J. 08038
- 3. Plant Unit 1
- 4. Owner's Certificate of Authorization (if required) N/A.
- 5. Commercial Service Date 7/1/77.
- 6. National Board Number for Unit: N/A.
- 7. Examination Dates: 2-26-91 through 4-17-92.
- 8. This report covers the examinations that were conducted during the 10th Refueling Outage.
- 9. Components Inspected.

COMPONENTS OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SER. NO.	STATION OR PROVINCE NUMBER	NATIONAL BOARD NO.	
#1 Reactor Vessel	Combustion Engineering	66201 Head 66101 Vessel	N/A	20757	
#11 Steam Generator	Westinghouse Tampa Div. P.O. Box 19218 Tampa, FL 33616	1003	N/A	68-10	
#12 Steam Generator	11 11	1022	N/A	68-08	
#13 Steam Generator	11 11	1023	N/A	68-09	
#14 Steam Generator	11 11	1203	N/A	68-51	
#11 Regen. Ht. Exch.	Sentry Equip. Corp. Oconomowoc. WI	4195-A4 7, 8, 9	N/A	385, 386, 387	

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 9. Components Inspected (cont'd):

COMPONENTS OR APPURTENANCE	MANUFACTURER OR I	FACTURER NSTALLER R. NO.	STATION OR PROVINCE NUMBER	NATIONAL BOARD NO.
#1 Pressur- izer	Delta Southern	1011	N/A	68-8
Chemical Volume & Control Piping System	United Engineers & Constructors (UE&C) 30 South 17th St., Phila. PA 19101	N/A	N/A	N/A
Containment Spray Piping System	UE&C	N/A	N/A	N/A
Mainsteam Piping sys.	UE&C	N/A	N/A	N/A
#1 Volume Control Tank	Joseph Oat & Sons, Inc. Camden, N.J.	1781-2A	N/A	374
#1 Excess Letdown Heat Exchanger	Atlas Industries 81 Somerset Place Clifton, N.J.	850 e	N/A	701
#1 Letdown Heat Exchanger	Atlas Industries	N/A	N/A	694
#1 RHR Heat Exchanger	Engineers & . Fabricators, Inc.	S15860-C	N/A	122

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- 3. Plant Unit 1

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- 6. National Board Number for Unit N/A.
- 7. Examination Dates: 2-26-91 through 4-17-92.
- 9. Components Inspected (cont'd).:

COMPONENTS OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SER. NO.	STATION OR PROVINCE NUMBER	NATIONAL BOARD NO.
Pressurizer Relief Piping Sys.	UE&C	N/A	N/A	N/A
Reactor Coolant Piping Sys	UE&C	N/A	N/A	N/A
Steam Gen. Feed Piping System	UE&C	N/A	N/A	N/A
Safety Injection Piping Sys.	UE&C	N/A	N/A	N/A

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- 6. National Board Number for Unit N/A.
- 7. Examination Dates: 2-26-91 through 4-17-92.
- 10. Abstracts of Examinations:
 - 10.1 Examinations were conducted by PSE&G as well as companies under contract to PSE&G. The following examination summary (Section 11) is a brief summary with further details found in the attached report and on file at the Salem Generating Station.

Since nearly all inservice examination requirements can be found in Salem's Technical Specifications, this summary lists these requirements first arranged by Tech. Spec. paragraph number followed by applicable NRC circulars and bulletins.

11. Examination Summary:

11.1 Technical Specification 4.0.5 - ASME Section XI

The examinations were conducted during the tenth refueling ISI outage at Salem Unit 1. These examinations constituted the third ISI performed at Salem Unit 1 during the second - ten year interval of operation. The components were examined in accordance with "Examination Plan for the 1992 Inservice Examination of Salem generating Station, Unit 1".

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

11.1 (cont.)

11.1.1 ISI Examination

Southwest Research Institute (SWRI) under the direction of the Salem ISI Group conducted eighty-two (82) ultrasonic, one hundred thirty-one (131) liquid penetrant, fifty-six (56) magnetic particle, and one (1) visual examination. The examinations were conducted on the following welds and components:

Class 1 Components

Vessels

Reactor Pressure Vessel Closure head Pressurizer

Piping

Chemical and Volume Control System
Pressure Relief System
Pressurizing System
Reactor Coolant System
Residual Heat Removal System
Safety Injection System

Pumps

Reactor Coolant Pump Bolts and Flywheels

Class 2 Components

Vessels

Steam Generator Boron Injection Tank

Piping

Feedwater System Main Steam System

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):
 - 11.1.2 UT examination of #12 Steam Generator transition cone to shell weld per PSE&G's response to I.E. Notice 90-04.
 - 11.1.3 The following recordable indications were reported during the course of the examinations.
 - A. During the PT examinations, recordable indications were revealed in nine examination areas. These indications were reported to PSE&G on Customer notification Forms (CNFs) SAM 1-1 through 1-6, 1-6A, 1-6B, 1-6C and 1-7 through 1-9. One indication was resolved as "Code allowable" and accepted "as is". Seven indications were removed with cosmetic buffing. One was mechanically removed after confirmation and acceptance with the UT method.
 - B. During the MT examinations, recordable indications were revealed in three areas. One was resolved as "code allowable" and accepted "as is". One indication was mechanically removed after sizing with the UT method. The other was recorded as being outside the American Society of Mechanical Engineers Section XI examination area on the adjacent valve casting. These indications were reported to PSE&G on CNFs SAM 1-10, 1-11, 1-11A, 1-11B and 1-12.
 - 11.1.4 There were no other reportable indications identified during this ISI.

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

11.1.5 Visual Examinations

- A. Contract personnel under the direction of the Salem ISI Group conducted visual examinations on seventy-six Nuclear Class I, eighty-two Nuclear Class II eighty-eight Nuclear Class III supports. There were several minor discrepancies noted including; wrong spring settings, rust, loose bolts, etc.. Work orders and/or deficiency reports were generated to document and correct all discrepancies. As a result of some of the discrepancies, twenty-one additional support exams were scheduled and performed satisfactory.
- B. PSE&G conducted VT-1 visual examinations of Nuclear Class 1 bolting on five components (valves and/or flanges) satisfying ASME Section XI B-G-2 examination requirements. Results of these examinations were satisfactory.
- C. PSE&G conducted VT-3 visual examinations of five components (vessel and/or pump) supports to satisfy examination category D-A, D-B, and F-A of ASME Section XI. Results of these examinations were satisfactory.

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

11.1.6 System Pressure Tests

Summary

System leakage exams were performed in accordance with ASME Section XI on all Nuclear Class 1 systems.

System functional Tests/system inservice tests were performed on those Nuclear Class 2 and 3 systems required to satisfy a percentage of the requirements for the second inspection period.

Results

None of the systems tested exhibited any excessive leakage. There was some minor mechanical leakage which was identified and work orders were written to correct.

11.2 Technical Specification 4.7.9 (a) Visual Inspection of Hydraulic and Mechanical Snubbers

11.2.1 Summary

Contract and PSE&G personnel under the direction of the Salem ISI Group conducted visual examinations on one hundred and sixteen mechanical snubbers and twenty-four hydraulic snubbers.

11.2.2 Results

There were no discrepancies noted which would affect snubber operability. There were some minor items noted including reservoirs not full, missing washers, loose spherical bearings and binding around the bearings, and some light corrosion. These conditions were all noted and corrected.

All snubbers which were removed and reinstalled for functional testing received an "As-Left" visual examination.

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- 6. National Board Number for Unit N/A.
- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):
 - 11.3 Technical Specification 4.7.9 (c) "Functional Testing of Selected Hydraulic and Mechanical Snubbers"
 - 11.3.1 Summary Hydraulic Snubbers

Per Technical Specifications, 10% of the installed hydraulic snubbers as well as all previous outage functional test failures are required to be tested. The 10% sample included one 200 KIP Main Steam snubber and two 1000 KIP Steam Generator snubbers. There were no previous outage test failures.

11.3.2 Results - Hydraulic Snubbers

There were noted discrepancies in the Tech. Spec. sample.

11.3.3 Summary - Mechanical Snubbers

Per Technical Specifications, 10% of the total installed mechanical snubbers as well as previous outage functional test failures were tested utilizing the WYLE Model 150 Snubber Testing machine. The 10% sample is broken down by snubber category size (small and medium) with 10% from each size selected each outage. All selected snubbers are detailed below:

- A. The 10% sample of the medium size snubbers included four (4) PSA-1's, six (6) PSA-3's, one (1) PSA-10 and one (1) PSA-35.
- B. Due to previous outage failures, 100% of the small size snubbers (PSA-1/4's, PSA-1/2") and equiv. hydraulic snubbers are tested each outage. This resulted in tests being performed on one Model 1/4, three Model 1/2 and one Lisega HSML.

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

11.3.4 Results - Mechanical Snubbers

- A. All the medium size Tech. Spec. sample snubbers were tested satisfactory.
- B. All the small size snubber and equivalent hydraulic snubbers were tested satisfactory.
- 11.4 NRC Circular 76-06 and NRC Bulletin 79-17 "Commitment to Examine and/or Flush Stainless Steel Lines Containing Borated Water.
 - 11.4.1 Southwest Research Institute (SwRI) under the direction of the Salem ISI Group performed ultrasonic examinations on fourteen welds. No recordable indications were noted.
 - 11.4.2 Quarterly chemistry samples were taken by the PSE&G Chemistry Department and the results were transmitted to the Salem ISI Group per the Chemistry procedure. During the past 18 months, this program identified a few nonconformances. The nonconforming pipe was flushed and a new sample taken to verify it met the acceptance criteria.
- 11.5 Technical Specification 4.4.11.1 Reactor Coolant Pump .Flywheel Examination (USNRC Regulatory Guide 1.14, "Reactor Coolant Pump Flywheel Integrity").

11.5.1 Summary

Southwest Research Institute (SwRI) performed examinations on Reactor Coolant Pump (RCP) Flywheels. Flywheels are tracked by RCP Motor serial number and original pump location, however, many have been moved to different pump locations throughout outages. The exam results are as follows:

A. Performed "UT" examination of the top side of serial # 35-76P-917 which was originally installed in #23 pump and is now installed in #12 pump. Exam performed in-place.

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- 6. National Board Number for Unit N/A.
- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):
 - B. Performed "UT" examination of the top side of serial # 45-75P-790 which was originally installed in #14 pump and is now installed in #11 pump. Exam performed inplace.

11.5.2 Results

No discrepancies were noted.

11.6 NRC Bulletin 87-01 "Thinning of Pipe Walls in Nuclear Power Plants".

11.6.1 Summary

Southwest Research Institute (SwRI) and General Electric Co. under the direction of the Salem ISI Group performed ultrasonic thickness measurements on eighty-one piping components as identified by PSE&G engineering.

11.6.2 Results

Any areas identified having a wall thickness below minimum wall were submitted to PSE&G Engineering Department for disposition.

11.7 NRC Bulletin 82-02 "Degradation of Threaded Fasteners in the Reactor Coolant Pressure Boundary of Power Plants".

11.7.1 Summary

Visual (VT) and Magnetic Particle (MT) exams were performed on the primary manway bolts for all four Steam Generators. In addition, a VT exam was performed on all four Reactor Coolant Pumps main flange bolting.

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

11.7.2 Results

One bolt on #14 Steam Generator hot leg had minor indications observed during the visual examinations. Deficiency Reports and Code Job Packages were prepared to replace these bolts in kind. There were no discrepancies noted on the Reactor Coolant Pump flange bolting.

- 11.8 NRC Bulletin 88-08 "Thermal Stresses in Piping Connected to reactor Coolant System".
 - 11.8.1 Southwest Research Institute (SwRI),
 under the direction of the Salem ISI Group,
 performed augmented ultrasonic and dye penetrant examinations on seventeen 1.5" Safety
 Injection welds, two 2" and two 3" Chemical and
 Volume Control System welds for the third
 consecutive outage. No discrepancies were
 noted.
- 11.9 NRC Bulletin 88-11 "Pressurizer Surge Line Thermal Stratification".

11.9.1 Summary

The Salem ISI Group performed visual examinations on all the existing surge line pipe supports\HEBA restraints and any insulation damage. A total of nine supports were examined.

11.9.2 Results

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No discrepancies were noted. Results were forwarded to system engineering.

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):
 - 11.10 Technical Specification 4.4.5.0 Steam Generator Tube eddy current inspection.
 - 11.10.1 The original eddy current examination scope is detailed below:
 - A. Three percent Tech. Spec bobbin coil examination in #11, #12, #13 and #14 steam generators (102 tubes per steam generator).
 - B. A non-tech spec sample of six hundred ten tubes in #11 steam generator per Engineering's recommendation to comply with EPRI recommended guidelines of performing 100% examination of all steam generator tubes over a six year period. This sample combined with the tech Spec sample brings the total percentage of tubes inspected in this generator for this outage to 21%.
 - C. A non-tech. spec. sample of six hundred forty-one tubes in #12 steam generator per Engineering's recommendation to comply with EPRI recommended guidelines of performing 100% examination of all steam generator tubes over a six year period. This sample combined with the tech. Spec. sample brings the total percentage of tubes inspected in this generator for this outage to 22%.
 - D. A non-tech. spec sample of six hundred and nine tubes in #13 steam generator per Engineering's recommendation to comply with EPRI recommended guidelines of performing 100% examination of all steam generator tubes over a six year period. This sample combined with the Tech. Spec. sample brings the total percentage of tubes inspected in this generator for this outage to 21%.

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- 11. Examination Summary (cont'd):
 - D. A non-tech. spec sample of six hundred thirty-one tubes in #14 steam generator per Engineering's recommendation to comply with EPRI recommended guidelines of performing 100% examination of all steam generator tubes over a six year period. This sample combined with the Tech. Spec. sample brings the total percentage of tubes inspected in this generator for this outage to 21%.
 - E. A twenty percent inspection (approximately 680 tubes) in #11, #12, #13 and #14 steam generators with rotating pancake probe to address the concern of Expansion Zone Pure Water Stress Corrosion Cracking at the hot leg tube sheet (WETEX) for steam generators manufactured using explosive tube expansion techniques.
 - F. A seven percent inspection (approximately 240) in #11, #12, #13 and #14 steam generators with rotating pancake probe at multiple support plate intersections.
 - 11.10.2 The results of the eddy current inspections are as follows:
 - A. The Tech. Spec. sample in #11, #12, #13 and #14 steam generators revealed no indication equal to or exceeding the plugging limit and satisfied the less than 5% of the inspected tubes being degraded therefore no scope expansion was required.
 - B. Zero tubes in #11 steam generator were required to be plugged due to eddy current indications.
 - C. One tube in #12 steam generator was required to be plugged due to an eddy current indication on the non-tech. spec. sample exceeding the plugging limit.

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):
 - D. Two tubes in #13 steam generator were required to be plugged due to eddy current indications in the non-tech. spec. sample exceeding the plugging limit. In addition, one tube was preventively plugged due to an eddy current indication in the 35% to 39% through wall range.
 - E. Zero tubes in #14 steam generator were required to be plugged due to eddy current indications exceeding the plugging limit however two tubes were preventively plugged due to eddy current indications in the 35% to 39% through wall range.

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- 11. Examination Summary (cont'd):

Steam Generator	Extent of Exam.	No. of Tubes Inspected	Tubes < 20%	with Indica 20-39%	tions > 40%
11	Full Length Bobbin Coil	712	9	16	0
	RCP at Support Plates	237	0	0	0
	RCP of Tubesheet	680	0	0	0
12	Full Length Bobbin Coil	743	20	41	1
	RCP at Support Plates	240	0	0	0
	RCP of Tubesheet	678	0	0	0
13	Full Length Bobbin Coil	711	8	10	1
	RCP at Support Plates	241	0	0	0
	RCP of Tubesheet	687	0	0	O
14	Full Length Bobbin Coil	733	15	39	0
	RCP at Support Plates	241	0	0	0
	RCP of Tubesheet	678	0.	0	0
Sub-Total	Full Length	2899	52	106	2
	Support Plates	959	0 .	0	0
	Tubesheet	2723	0	0	1
	TOTAL	6581	52	106	3

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

11.10.3 Additional Steam Generator Work

- A. Helium leak detection was performed on #11 steam generator to locate the source of primary to secondary leakage. No positive evidence of primary to secondary leakage was observed using the Helium Leak Detection Technique however tubesheet video scan during helium pressurization revealed an excessive amount of boron deposits observed surrounding the explosive plugs located in Row 1 Column 91 hot leg and Row 1 Column 2 in the cold leg. The explosive plugs in these locations were remotely machined and replaced with short standard type Inconel 690 mechanical plugs.
- B. All explosive plugs in both legs of #11 steam generator were scheduled for replacement. These plugs were located at Row 1 Columns 1-5 and 90-94 in both legs, twenty total. Due to difficulties encountered while attempting to machine the explosive plugs and time constraints, only six of the twenty plugs were removed. Four of these plugs were reported as having both boron deposits surrounding them during helium pressurization and were successfully removed (see above). In addition the explosive plugs in Row 1 Column 5 hot and cold were removed and replaced with a short standard type Inconel mechanical plug.

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

11.10.4 Current status of Steam Generators

At this time, the total number of tubes plugged in the Salem Unit 1 Steam Generators are as follows:

	S/G 11	S/G 12	S/G 13	S/G 14
Plugs repaired this outage	6	0	0	0
New tubes plunged this outage	0	1	3	2
Tubes previously plugged	104	120	109	141
Total tubes plugged	104	121	112	143

11.11 Technical Specification 4.6.1.2 (d) Containment Type "B" (Penetrations) and "C" (Valves) Leak Rate Testing.

11.11.1 Summary

The PSE&G Research Corp. under the field supervision of the Salem ISI Group, conducted leak rate tests on sixty-three Type "B" Electrical Penetrations, seven Type "B" Mechanical Penetrations and fifty-five Type "C" Mechanical penetrations (113 valves).

11.11.2 Results

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- A. Several Type "C" valves exceeded the recommended leak rate acceptance criteria.

 These valves were reworked to an acceptable condition and retested satisfactorily.
- B. A total As-Found leakage of 32,432.7 SCCM was measured through all Type "B" and "C" containment penetrations. After corrective maintenance, a total As-Left leakage of 22,338.2 was measured through all Type "B" and "C" penetrations.

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):
 - 11.12 Technical Specification 4.6.1.3b Elevation 100' and 130' Airlock Leak Rate Tests

11.12.1 Summary

PSE&G Research Corp. under the field supervision of the Salem ISI Group, conducted leak rate tests on the 100' and 130' containment personnel airlocks.

11.12.2 Results

The combined As-Found leakage for these airlocks was 8,340.0 SCCM. After scheduled preventative maintenance, the combined As-Left leakage for the airlocks was 9,500.0 SCCM. Both of these measured combined leakage rates satisfy the Technical Specification acceptance criteria of \leq 0.05 La (10,812 SCCM).

11.13 NUREG 0578 - "TMI Lessons Learned - Performing Service Leak Exams, measuring leakage outside Containment, and take corrective actions necessary to reduce leakage as low as possible on systems likely to contain radioactive liquids in the event of an accident.

11.13.1 Summary

- A. The Salem ISI Group performed service pressure leak exams on the Safety injection, Chemical and Volume Control, Residual Heat Removal and Containment Spray Systems.
- B. The PSE&G Research Corp., under the direction of the Salem ISI Group conducted the Waste Gas System Leak Test in accordance with Site Service procedure SC.SS-IS.WG-0003(R).

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- 7. Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

11.13.2 Results

- A. The Waste Gas Decay Tanks, Waste Gas Suction and Discharge Headers and #11 Waste Gas Compressor showed no adverse findings relative to this bulletin.
- B. #12 Waste Gas Compressor could not be tested because it is out of service awaiting breaker maintenance. The activity to perform a leak rate check remains open until the breaker is repaired.
- C. The leak rate test on the 1WG41 valve was acceptable with a measured leakage of 1,629 SCCM which is below the acceptance criteria of 1,850 SCCM.
- 11.14 Field Directive, S-C-R700-MFD-288, "Leak Rate test Program for the Steam Generator Blowdown Isolation Valve (GB4)
 - 11.14.1 PSE&G Research and Testing Lab under the field supervision of the Salem ISI Group, conducted leak rate tests on all four Steam Generator Blowdown Valves (GB-4's) in accordance with Site Service procedure SC.SS-IS.GB-0004(Q).

"11.14.2 Results

. .

All four valves had an acceptable leak rates below the test acceptance criteria of \leq 30,000 SCCM. No discrepancies were noted.

- Owner: Public Service Electric & Gas Co., 80 Park Plaza Newark, N.J. 07101
- Plant: Salem Generating Station P.O. Box 236, 2. Hancock's Bridge, N.J. 08038
- Plant Unit 1 3.
- Owner's Certificate of Authorization (if required) N/A.
- Commercial Service Date 7/1/77.
- 6. National Board Number for Unit N/A.
- Examination Dates: 2-26-91 through 4-17-92.
- 11. Examination Summary (cont'd):

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.

Date Nov 3, 19 92 Signed PSE&G Owner By July Monson

Certificate of Authorization No. (if applicable) N/A

Expiration Date N/A

CERTIFICATE OF INSERVICE 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 of New Jersey and employed by Arkwright Mutual Insurance Company, Norwood, Massachusetts, have inspected the components described in this Owner's Data Report during the period 02-26-91 to 04-17-92 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 Data 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 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.

nov. 6, 19 92

Factory Mutual Systems

Tomes E (ask Commissions NJ 379 "I"

Inspector's Signature Commissions NJ 379 "I"

National Board, State, Province and No.

IL DISCUSSION OF EXAMINATION ACTIVITIES

A. Pre-Outage Planning

In order to assure efficient performance of the ISI, SwRI devoted a concentrated effort toward planning and preparation for the examination activities. This included review of the Long-Term Plan, scrutinizing calibration block configuration to ensure that they met the requirements for the 83/S83 Code, and developing nuclear projects operating procedures (NPOPs) to supplement the PSE&G preapproved listing of NPOPs. These activities were accomplished by SwRI's NDE Engineering Section with assistance provided by the NDE Applications Section culminating in the development of an Examination Plan.

The Examination Plan was developed to provide the basis for the ISI in one comprehensive document. It provided a listing of the examination areas, copies of all procedures, calibration block drawings, weld identification figures, and other information pertinent to the performance of the ISI. The Examination Plan was reviewed and approved by PSE&G prior to SwRI's arrival on site.

B. Examination Procedures and Personnel

The NDE activities were performed using visual (VT), liquid penetrant (PT), magnetic particle (MT), and manual ultrasonic (UT) techniques. These examinations were performed by SwRI and Sonic Systems International, Inc. (SSI), personnel in accordance with SwRI NPOPs which had been preapproved by PSE&G personnel.

SwRI NPOPs were utilized to provide guidelines and controls for performance of onsite examination activities. This included procedures for weld joint identification marking, indication recording, records control, and resolution of indications.

NPOPs were written to conform to the requirements of the applicable sections of the ASME B&PV Code and SwRI's NQAPM. Some procedures were amended for specific examination purposes with Interim Change Notices (ICNs). These ICNs were necessary to incorporate examination requirements unique to particular examinations at Salem 1. The ICNs used are noted on the individual examination data sheets, NDE Summary Tables, and copies of the ICNs and their respective NPOPs are located in Appendix C.

SwRI examination personnel were certified in accordance with SwRI NPOP 2.0-NDES-101, "Nondestructive Examination Personnel Qualification and Certification," which incorporates the guidelines of SNT-TC-1A of the American Society for Nondestructive Testing and ASME Section XI B&PV Code. The SSI examiner was certified in accordance with SSI's training, qualification, and certification procedure number SSI-A-005, which complies with SNT-TC-1A. A copy of each examiner's certifications is included in Appendix E.

C. Examination Activities

This subsection provides a discussion of the various NDE activities performed during the ISI. SwRI examination data records are included in Volumes III through V. A discussion of equipment and materials used for these examinations appears in Subsections E and F of this section of the report.

1. VT Examinations

VT examinations were performed on the reactor pressure vessel (RPV) closure head / washers.

2. PT Examinations

Solvent removable visible dye penetrant examinations were performed by SwRI personnel on selected Class 1 and Class 2 piping and support welds.

3. MT Examinations

Examination personnel used an AC yoke and dry particle MT to examine supports on the boron injection tank, and piping welds within the Feedwater and Main Steam Systems. Fluorescent MT was performed on the RPV studs and nuts.

4. UT Examinations

UT examinations were performed on Class 1 and Class 2 components, including vessels, studs, austenitic piping, ferritic piping, and dissimilar metal welds. Various techniques were used to perform the UT examinations, depending on material type and weld thickness. For typical vessel and piping examinations, the following techniques were used:

- a. A 0-degree lamination scan (UT0L) was used for detection of laminar reflectors which might affect interpretation of angle-beam results.
- b. A 0-degree scan (UT0W) was used for detection of reflectors in the weld for vessel examinations.
- c. For austenitic and ferritic welds, angle-beam scans of 45 degrees (UT45) were used for detection of reflectors oriented parallel to the weld.
- d. Angle-beam scans, using 45-degree search units directed parallel to the weld (UT45T) were used on piping for detection of reflectors oriented transverse to the weld. For vessel examinations, 45- and 60-degree scans parallel to the weld were performed for detection of transverse reflectors.
- e. For selected dissimilar metal welds, augmented 45-degree refracted longitudinal examinations were also used for detection of reflectors oriented parallel and transverse to the weld.

5. TDAS Examinations

Thickness measurements were recorded using SwRI's Thickness Data Acquisition System (TDAS) at 58 pipe locations to identify possible corrosion/erosion. Results of the TDAS examinations in the form of thickness plots for each fitting were reported to PSE&G personnel during the examinations, and a separate summary report was submitted.

6. Special Examinations

At the request of PSE&G, two special series of examinations were performed:

a. In response to Nuclear Regulatory Commission (NRC) Bulletin 76-06, "Stress Corrosion Cracks in Stagnant, Low Pressure Piping Containing Boric Acid Solution at PWR's," one 14-inch Residual Heat Removal, two 10-inch Safety Injection, one 8-inch Safety Injection, seven 6-inch Safety Injection, and three 4-inch Safety Injection welds were examined.

b. In response to NRC Bulletin No. 88-08, "Thermal Stresses in Piping Connected to Reactor Coolant Systems," seventeen 1.5-inch Safety Injection and two 2-inch and two 3-inch Chemical and Volume Control welds were examined with UT for the third consecutive outage.

D. Examination Results

PT examinations revealed the following indications:

Area	Description	Resolution	CNF No.
2-SJ-1137-12 Pipe to Valve	7/32-inch linear indication on base material of pipe	Reexamination after cosmetic buffing revealed no recordable indications.	SAM 1-1
2-SJ-2160-10 Elbow to Pipe	Two linear indications, one 3/8-inch, one 9/32-inch on base material of elbow	Reexamination after cosmetic buffing revealed no recordable indications.	SAM 1-2
2-SJ-2160-9 Pipe to Elbow	1/8-inch linear indication on base material of elbow	Reexamination after cosmetic buffing revealed no recordable indications.	SAM 1-3
2-CV-2147-14 Pipe to Elbow	3/8-inch linear indication on base material of elbow	Reexamination after cosmetic buffing revealed no recordable indications.	SAM 1-4
4-SJ-2150-14 Pipe to Valve	3/16-inch round indication 1/2 inch from fusion line on pipe side of weld	Reexamination after cosmetic buffing revealed no recordable indications.	SAM 1-5
6-PR-1103-12 Elbow to Flange	Four linear indications, one 3/4 inch, one 1/8 inch and two 3/16 inch on Flange side 1/2 inch from weld centerline.	Reexamination after mechanical removal revealed no recordable indications.	SAM 1-6, 1-6A, 1-6B, 1-6C
6-PR-1105-1 Nozzle to Safe End	3/16-inch linear indication on nozzle side, 1/4 inch from weld centerline	Indication is allowable by Code. Accepted "as is" by PSE&G personnel.	SAM 1-7
1-1/2-SJ-1132-40 Valve to Pipe	1/4-inch linear indication on base material of valve	Reexamination after cosmetic buffing revealed no recordable indications.	SAM 1-8
6-SJ-1141-1 Reducer to Elbow	9-inch linear indication on weld	Reexamination after cosmetic buffing revealed no recordable indications.	SAM 1-9

MT examinations revealed the following indications:

<u>Area</u>	Description	Resolution	CNF No.
34-MS-2131-1PL- 19 Pipe Lug	1/4-inch linear indication on lug side	Indication is allowable by Code. Accepted "as is" by PSE&G personnel.	SAM 1-10
34-MS-2121-2 Pipe to Valve	1-inch linear indication at fusion line on valve	Reexamination after mechanical removal revealed no recordable indications.	SAM 1-11, 1-11A, 1-11B
34-MS-2141-2 Pipe to Valve	13/16-inch linear indication outside Coderequired examination area on valve body	PSE&G personnel forwarded to their Engineering for disposition. Seat 92-322.	SAM 1-12

VT and UT examinations revealed no reportable indications.

At the request of PSE&G personnel, each examination area was checked to ensure that the appropriate identification number and L_0 was etched or stamped on it. PSE&G-developed forms were used to report variances from the requirement.

Copies of the CNFs are included in Appendix G.

E. Equipment

Various NDE equipment was used during the ISI to perform the examinations of the selected components. The major equipment items are discussed below.

1. UT Instruments

Sonic 136 and FTS Mark I UT instruments were used for the NDE activities. To assure proper instrument linearity and operation, SwRI certified each instrument prior to use at Salem Unit 1, as specified in the NQAPM. Copies of certifications for those instruments utilized at Salem Unit 1 are contained in Appendix F. In addition, instrument linearity measurements were taken before and after completion of site activities as specified in SwRI NPOP SwRI-NDE5, "Ultrasonic Linearity Measurements."

2. Transducers

Various brands, sizes, and frequencies of UT transducers were used to perform the examinations. A transducer frequency of 1.5, 2.25, 5.0, or 10.0 MHz was used as specified in the applicable NPOP.

Prior to use at Salem 1, each transducer was tested and certified to be within SwRI's acceptance standards. This certification is performed within 12 months of use to verify that each transducer is performing within standards. A copy of each transducer's certification is contained in Appendix F.

Information on the actual transducer used for any specific examination may be determined by reviewing the data sheets and referenced calibration sheets in the field data volumes.

3. Magnetic Particle Examination Equipment

Hand-held alternating current magnetic particle yokes were used for MT examinations.

F. Materials

In addition to the equipment previously discussed, certain materials were required in the performance of the examinations. All materials contacting the examination surface (i.e., glycerine, pipe marking pencils, penetrants, etc.) were tested and certified to be within acceptable sulfur and halogen limits prior to use at Salem 1. Certifications for these materials are contained in Appendix F.

G. UT Calibration Blocks

Pipe and vessel calibration blocks were utilized to calibrate the UT instruments prior to examination of the selected welds. Drawings of the various calibration blocks used are contained in Appendix D.

III. SUMMARY OF EXAMINATIONS

This section provides a discussion of the field data records and a summary of the NDE activities performed at Salem 1.

A. Explanation of Field Data Records

The results of the examinations and calibrations performed by SwRI personnel were recorded on standard SwRI forms. Copies of these completed documents constitute Volumes III through V of this report. The original records will be retained in the SwRI Records Vault.

The field data records for each weld or area are assembled in a package preceded by a summary sheet. The examination areas and summary sheet numbers correspond to those listed in the Nondestructive Examination Summary Table provided in Subsection B below.

The instruments used in performing UT examinations were calibrated prior to use, then verified again at specified intervals during the examinations and upon completion of the examinations. The calibration parameters were recorded on the appropriate calibration record sheet as specified in the applicable NPOP. The documented calibration and calibration verification provide immediate assurance that the examinations were performed using properly calibrated instruments.

The results of the examinations were recorded on the applicable data record sheets as specified in the Examination Plan. The information documented on these forms describes the parameters associated with those indications which were greater than the recording levels specified in the applicable NPOP.

The size, location, and nature of reflectors were determined by analyzing the indication parameters recorded on the forms described above. The analysis is documented on SwRI Indication Resolution Record Sheets, which are included as part of each data package, when required.

B. Nondestructive Examination Summary Table

The following section is the Nondestructive Examination Summary Table (Summary Table). The Summary Table lists the areas that were examined by SwRI personnel during this ISI. See Figure 1 for an explanation of the Summary Table format. Weld identification drawings depicting the location of Class 1 and Class 2 components are contained in Appendices A and B, respectively.

DATE: REVISION:

SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 1 COMPLETED COMPONENTS

REACTOR PRESSURE VESSEL CLOSURE HEAD

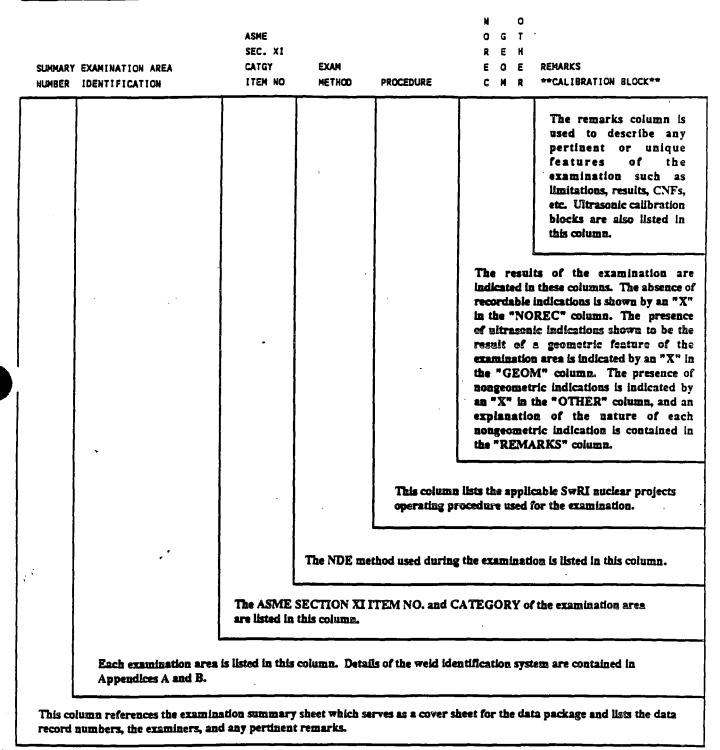


Figure 1. Explanation of Summary Table Format

SALEM NUCLEAR POWER STATION UNIT 1

SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

REACTOR PRESSURE VESSEL CLOSURE HEAD

SUMMARY Number	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C -	_	O T H E R	REMARKS **CALIBRATION BLOCK**
005200	1-RPV-STUDS 1-54 CLOSURE STUDS	B-G-1	MT . UT60 . UT88	PSE-MT2/1 PSE-UT18/0	X		-	EXAMINED 19 THROUGH 37. **7-1.125-8-CS-60-SAM**
	1-RPV-NUTS 1-54 CLOSURE NUTS	8-G-1 B6.10	МТ	PSE-MT2/1	x	-	-	EXAMINED NUTS ON STUDS 19 THROUGH 37.
	1-RPV-WASHERS 1-54 CLOSURE WASHERS	B-G-1 B6.50	VT	PSE-VT1/0	x	•	•	EXAMINED WASHERS ON STUDS 19 THROUGH 37

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

PRESSUR	IZER						•	
		ASME			N	G	0	
		SEC. XI			_	E		
CHIMMADY	EXAMINATION AREA	CATGY	EXAM			0		REMARKS
	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	_	R	**CALIBRATION BLOCK**
NUMBER	IDENTIFICATION	115H NO	METHOD	PROCEDURE		-	•	
						_		
	LONGITUDINAL WELDS (FIG NO A-3	1						
006100	1-PZR-2	8-8	UTOW	PSE-UT49/1	x	-	-	EXAMINED 12" OF WELD LENGTH INTERSECTING
*******	LONGITUDINAL WELD SHELL A	B2.12	UT45	PSE-UT15/1			-	
			UT45T		X	-	-	
			UT60		X	-		
			UT60T		X	-	-	**5-CSCL-42-SAM**
006325	1-PZR-20	B-B	UTOW	PSE-UT49/1	X	-	•	LIMITED EXAM DUE TO PRESSURIZER SUPPORT.
	LONGITUDINAL WELD SHELL J	B2.12	UT45	KPSE-UT15/1	X	-	-	EXAMINED 8-1/2" OF THE REQUIRED 12".
			UT45T		X	-	•	
			UT60			-		
			UT60T		X	•	•	**5-CSCL-42-SAM**
	CIRCUMFERENTIAL WELDS (FIG NO	<u>A-3)</u>						
006600	1-PZR-1	B-8	UT OW	PSE-UT49/1	X	-	•	EXAMINED FROM L=260" TO L=5" WHICH WAS
	LOWER HEAD TO SHELL A	B2.11	UT45	PSE-UT15/1	X	-	•	NOT EXAMINED IN 1989. TOTAL WELD NOW
			UT45T		X	-	•	EXAMINED.
	•		UT60		X	-	-	
			UT60T		X	•	-	**5-CSCL-42-SAM**
006850	1-PZR-21	8-8	UTOW	PSE-UT49/1	x			LIMITED EXAM DUE TO WELDED PADS.
00000	SHELL J TO UPPER HEAD	B2.11	UT45	PSE-UT15/1			-	
			UT45T				-	
	.•		UT60					DIRECTIONS.
; ;			UT60T	,		-		**5-CSCL-42-SAN**
	NATE OF THE PARTIES OF TAXABLE	(F16 NO	4.75					
	NOZZLE INSIDE RADIUSED SECTION	(FIG NU	<u>A-3)</u>					
007100	6-PRN-1103-IRS RELIEF NOZZLE	8-0 83.120	UT53	PSE-UT11/1	×	-	-	
								10_0001_0/_04M
								IR-CSCL-84-SAM
007200	6-PRN-1104-IRS	B-D	UT53	PSE-UT11/1	X	-	-	
	RELIEF NOZZLE	83.120						

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SALEM NUCLEAR POWER STATION UNIT 1

SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

PRESSURIZER

ASME O G T SEC. XI R E H

SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

NOZZLE INSIDE RADIUSED SECTION (FIG NO A-3)

007300 6-PRN-1105-IRS B-D UT53 PSE-UT11/1 X - -

RELIEF NOZZLE B3.120

IR-CSCL-84-SAM

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INTEGRALLY WELDED SUPPORTS (FIG MO A-3)

007700 1-PZR-1VS B-H UT45 PSE-UT16/1 X - - EXAMINED FROM L=260" TO L=5" WHICH WAS LWR HEAD TO SUPPORT SKIRT B8.20 UT45T X - - NOT FYAMINED IN 1989 TOTAL USED NOT

LWR HEAD TO SUPPORT SKIRT 88.20 UT45T X - - NOT EXAMINED IN 1989. TOTAL WELD NOW UT60 X - - FYAMINED

60 X - - EXAMINED.

PL-1.5-CS-65-SAM

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

ND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992: CLASS 1 COMPLETED COMPONENTS

CHEMICAL AND VOLUME CONTROL SYSTEM

CHEMIC	AL AND VOLUME CONTROL SYSTEM				N		a	
		ASME					T	
	•	SEC. XI				_	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	
		• •••••		• ••••••	•	-	. •	***************************************
	3-CV-1143 (FIG NO A-8)							
012600	3-cv-1143-5	B-J	PT	PSE-PT1/0				
7.2555	PIPE TO PIPE	89.21	F 1	P3E-P11/0		•	•	
	• .							
012800	3-cv-1143-7	8-J	PT	PSE-PT1/0	x.			•
	PIPE TO ELSOW	B9.21						
013000	3-CV-1143-9	B-J	PT	PSE-PT1/0	X	-	•	
	PIPE TO ELBOW	B9.21						
	•							
	3-CV-1141 (FIG NO A-9)							
015900	3-cv-1141-6	8-J	PT	PSE-PT1/0	X	-	•	
	PIPE TO ELBOW	B9.21						•
	•							
016700	3-CV-1141-14	B-J	PT .	PSE-PT1/0	x	•		EXAMINED PER IEB 88-08.
	VALVE TO ELBOW	B9.21	UT45	PSE-UT31/1	X	-	•	
			UT45T			•		
	•		UT45TAN		X	•	•	
; ;	·							**3-SS-160451-30-SAM**
016800	3-cv-1141-15	B-J	PT	PSE-PT1/0	x	-	-	EXAMINED PER IEB 88-08. UT45
	ELBOW TO BRANCH CONNECTION	B9.21	UT45	PSE-UT31/1	-	x	-	INDICATIONS ARE GEOMETRIC REFLECTORS
			UT45T				-	
			UT45TAN		X	-	-	
								3-SS-160451-30-SAM
	3-CV-1133 (FIG NO A-10)							
017900	3-CV-1133-11	B-J	PT	PSE-PT1/0	x		_	
		89.21	• •		^	-	-	
		 •		•				

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

CHEMICAL	AND	VOLUME	CONTROL	SYSTEM
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	Y EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	E	G E O M	E	REMARKS **CALIBRATION BLOCK**
018300	3-CV-1133 (FIG NO A-10) 3-CV-1133-15 VALVE TO PIPE	8-J 89.21	PT	PSE-PT1/0	×	•	•	
020500	2-CV-1175 (FIG NO A-11, A-12) 2-CV-1175-20 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	x	-	-	·
021700	2-CV-1175-32 PIPE TO ELBOW	8-J 89.40	PT	PSE-PT1/0	x	•		
022000	2-CV-1175-35 VALVE TO PIPE	8-J 89.40	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X	• • • •	•	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**
022100	2-CV-1175-36 PIPE TO TEE,	8-J 89.21	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	x x x x	-	-	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**

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SUMMARY OF NONDESTRUCTIVE EXAMINATIONS
SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

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CLASS 1 COMPLETED COMPONENTS

00	ECC	105	951	TEE	SYSTEM	
~ 5	E 220	JKE	KEL	1 5 7	313157	

PRESSUR	E KELIEP STSIEM							
					N		0	
		ASME			0	G	T	
		SEC. XI			R	Ε	н	
CHUMANY	EXAMINATION AREA	CATGY	EXAM			_		DEMANAC
					-	0	_	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	С	M	R	**CALIBRATION BLOCK**
			•••••	•••••	•	-	-	
	6-PR-1105 (FIG NO A-13)							
022200	6-PR-1105-1	B-F	PT	DCE-DT1/0	_	_	U	PT INDICATION IS CODE ALLOWABLE. SEE
022200	•			PSE-PT1/0				
	NOZZLE TO SAFE-END	B5.130	UT45	PSE-UT31/1	X	•	-	CNF SAM1-7. ACCEPTED "AS IS" BY PSE&G
			UT45T		X	•	-	PERSONNEL.
			UT45RL	PSE-UT31/1	X	-	•	
			UT45RLT					**6-SS-160764-25-SAM**
			OTASKLI		^	-		0-55-100-1/04-53-5AN
022300	6-PR-1105-2	B-J	PT	PSE-PT1/0	X	-	•	UT45 INDICATION IS A GEOMETRIC REFLECTOR
	SAFE-END TO ELBOW	B9.11	UT45	PSE-UT31/1	-	X	-	FROM THE WELD ROOT. NO UT FROM THE
		• 7 • 7 • 7	UT45T				-	
	,		UT45TAN		X	•	•	CONFIGURTATION. OBTAINED 100% OF CODE
								REQUIRED COVERAGE.
								6-SS-160764-25-SAM
	·							
								•
200د ـ	6-PR-1105-11	B-J	PT	PSE-PT1/0	X	•	-	PT PERFORMED AT REQUEST OF PSE&G AS PART
	ELBOW TO FLANGE	89.11						OF AN EXPANDED SCOPE DUE TO INDICATIONS
								ON 6-PR-1103-12.
								6-SS-160764-25-SAM
	6-PR-1104 (FIG NO A-14)							
024400	6-PR-1104-11	B-J	PŤ	PSE-PT1/0	X	-	-	PT PERFORMED AT REQUEST OF PSE&G AS PART
	ELBOW TO FLANGE	B9.11						OF AN EXPANDED SCOPE DUE TO INDICATIONS
	ELBOW TO PLANGE	97.11						
								ON 6-PR-1103-12.
	•							**6-SS-160764-25-SAM**
<i>;</i>				•				•
÷								
	6-PR-1103 (FIG NO A-15)							,
	5 7 7 17 10 NO NO 13 7							
025700	6-PR-1103-12	B-J ·	PT	PSE-PT1/0			¥	PT EXAM REVEALED ONE INDICATION WHICH
	ELBOW TO FLANGE	89.11	PT				-	
			UT45	PSE-UT31/2	X	-	-	REEXAMINATION AFTER SURFACE PREPARATION
	-		UT45T		X	-	•	REVEALED NO RECORDABLE INDICATIONS. SEE
			UT45TAN		¥		•	
			-1-75 INN		^			
								6-SS-160764-25-SAM

DATE: 08/27/92 REVISION: 0

SALEM NUCLEAR POWER STATION UNIT 1
SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

PRESSURIZING SYSTEM

ASME OGT SEC. XI REH

SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

14-PS-1131 (FIG NO A-18)

029700 14-PS-1131-2 B-F PT PSE-PT1/0 X - - NO UT UPSTREAM DUE TO NOZZLE

NOZZLE TO PIPE 85.130 UT45 PSE-UT31/2 X - - CONFIGURATION. 100% OF CODE REQUIRED

UT45T X - - COVERAGE OBTAINED.

UT45T X - - COVERAGE OBTAINED.

14-SS-140-1.25-77-SAM

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 1 COMPLETED COMPONENTS

REACTOR	COOLANT	SYSTEM
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REACTO	R COOLANT SYSTEM							
				•	N		0	
•		ASME		-	0	G	T	
		SEC. XI			R	Ε	H	
	Y EXAMINATION AREA	CATGY	EXAM		Ε	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
	***************************************		*******	• •••••••		ζ•	- .	***************************************
	74 00 4470 4870 40 4 04			•				
	31-RC-1130 (FIG NO A-24)							·
0/0100	31-RC-1130-3							
040100		8-J	PT	PSE-PT1/0		-		
	ELBOW TO PIPE	B9.11	UT45	PSE-UT31/2	X	-	•	
			UT45T		X	-	-	
			UT45TAN		X	-	-	
								2.312-ss-37-sam
								•
	31-RC-1120 (FIG NO A-25)							
	31-KC-1120 (FIG NO A-25)							
041000	31-RC-1120-2	D - C						
041700	NOZZLE TO ELBOW	B-F B5.130	PT	PSE-PT1/0		-		
	NOTITE 10 ELBON	B3.130	- · · -	PSE-UT31/2		-		
			UT45T			-		
			UT45TAN		X	-	•	
								2.312-ss-37-sam
1								
	31-RC-1110 (FIG NO A-26)							
	STATE OF THE PARTY							
044700	31-RC-1110-2	B-F	PT	PSE-PT1/0	U		_	NO UT/F & UT/FOLD SOON (INCOME)
		85.130	UT45	SEE RMKS		-		THE DISTRIBUTION OF STREAM SIDE DOE
	33333	031.30	UT45T	PSE-UT31/1		-		TO HOLLE CONTINUENTION OF TRUM
			UT45TAN	SEE RMKS	^		•	ACCOUNTING AND ACCOUNTING
			OITSIAN	SEE MINS	•		-	PROPERTIES OF ELBOW MATERIAL. EXAMINED
								FOR TRANSVERSE REFLECTORS ON THE WELD
								ONLY.
								2.312-SS-37-SAH
	•							
	29-RC-1140 (FIG NO A-27)							•
; `								
048250	29-RC-1140-5	B-F	PT	PSE-PT1/0	¥		_	NO UT45 & UT45TAN FROM UPSTREAM SIDE DUE
			UT45	SEE RMKS				TO ACCOUSTIC PROPERTIES OF ELBOW
			UT45T	PSE-UT31/1				MATERIAL OR FROM DOWNSTREAM SIDE DUE TO
			UT45TAN	SEE RMKS		-		
				JEE RANG				TRANSVERSE REFLECTORS ON THE WELD ONLY.
								2.312-SS-37-SAM
		t						
				•				
	27.5-RC-1140 (FIG NO A-31)							
		B-J	PT	PSE-PT1/0	X	-		NO UT FROM THE UPSREAM SIDE DUE TO PUMP
	PUMP TO PIPE	39.11	UT45	PSE-UT31/1				CONFIGURATION. UT45 INDICATION IS A
			UT45T					GEOMETRIC REFLECTOR FROM THE WELD ROOT.
			UT45TAN -	•	X			/ Automotive was read root.
								2.312-SS-37-SAM
				•				

SALEM NUCLEAR POWER STATION UNIT 1
SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

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SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

REACTOR COOLANT SY	STEM
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		1645				_	_	
•		-			-	-	•	
SUMMARY	FYAMINATION AREA		EVAM			_		
	· ·			ADOCEAURE	_	-	_	REMARKS
		LIEM NU	me i nou	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
		•			•	•	•	***************************************
	27.5-RC-1140 (FIG NO A-31)							
054700	27.5-RC-1140-1/10-SJ-1141	B-J	PT	PSE-PT1/0	X			AUGMENTED EXAM FROM THE BRANCH
	10 IN. BRANCH CONNECTION	B9.31	· UT45	PSE-UT31/2				CONNECTION SIDE. LIMITED UT. NO UT39
			UT45T					ON WELD DUE TO CONTOUR. EXAMINED 74%
			UT39T					THE REQUIRED TWO DIRECTIONS.
		•						**2.312-SS-37-SAM**
	27.5-RC-1130 (FIG NO A-32)							
056600	27.5-RC-1130-2	8-J	PT	PSE-PT1/0	x			UT45 INDICATIONS ARE GEOMETRIC
	PIPE TO PIPE	B9.11	UT45	PSE-UT31/1				
			UT45T		X	•	-	
			UT45TAN		X	•	•	
								2.312-SS-37-SAM
	27.5-RC-1110 (FIG NO A-34)							
059100	27.5-RC-1110-1/4-PS-1111	8-J	PT	PSE-PT1/0	×			AUGMENTED EXAM FROM THE BRANCH
`	4 IN. BRANCH CONNECTION	89.31	UT45	PSE-UT31/2				CONNECTION SIDE. LIMITED UT EXAM. NO
			UT45T	•				UT32T ON WELD DUE TO CONTOUR. EXAMINED
			UT32T					87% OF THE CODE REQUIRED TWO DIRECTIONS
								2.312-SS-37-SAM
	3-RC-1143 (FIG NO A-35)							- ي
061900	3-RC-1143-18	B-1	PT .	PSE-PT1/0	x		-	
	CAP TO BRANCH CONNECTION	B9.21						
	054700 054600 059100	054700 27.5-RC-1140-1/10-SJ-1141 10 IN. BRANCH CONNECTION 27.5-RC-1130 (FIG NO A-32) 056600 27.5-RC-1130-2 PIPE TO PIPE 27.5-RC-1110 (FIG NO A-34) 059100 27.5-RC-1110-1/4-PS-1111 4 IN. BRANCH CONNECTION 3-RC-1143 (FIG NO A-35) 061900 3-RC-1143-18	175 175	SEC. XI NUMBER IDENTIFICATION ITEM NO METHOD 27.5-RC-1140 (FIG NO A-31) 054700 27.5-RC-1140-1/10-SJ-1141 B-J PT 10 IN. BRANCH CONNECTION B9.31 UT45 UT45T UT39T 27.5-RC-1130 (FIG NO A-32) 056600 27.5-RC-1130-2 B9.11 UT45 UT45T UT45T UT45T UT45T UT45T UT45TAN 27.5-RC-1110 (FIG NO A-34) 059100 27.5-RC-1110-1/4-PS-1111 B-J PT 4 IN. BRANCH CONNECTION B9.31 UT45 UT45T UT45T UT45T UT32T	SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION 27.5-RC-1140 (FIG NO A-31) 054700 27.5-RC-1140-1/10-SJ-1141 10 IN. BRANCH CONNECTION 27.5-RC-1130 (FIG NO A-32) 27.5-RC-1130-2 PIPE TO PIPE 8-J PT PSE-PT1/0 B9.31 UT45 UT45T UT39T 27.5-RC-1110 (FIG NO A-32) 27.5-RC-1110 (FIG NO A-34) 27.5-RC-1110 (FIG NO A-35) 3-RC-1143 (FIG NO A-35) 061900 3-RC-1143-18 8-J PT PSE-PT1/0 PSE-PT1/0 PSE-PT1/0	SEC. XI CATGY EXAM NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE 27.5-RC-1140 (FIG NO A-31) 054700 27.5-RC-1140-1/10-SJ-1141 B-J PT PSE-PT1/0 X 10 IN. BRANCH CONNECTION B9.31 UT45 PSE-UT31/2 X 27.5-RC-1130 (FIG NO A-32) 056600 27.5-RC-1130-2 B-J PT PSE-PT1/0 X PIPE TO PIPE B9.11 UT45 PSE-UT31/1 X 27.5-RC-1110 (FIG NO A-34) 27.5-RC-1110 (FIG NO A-34) 059100 27.5-RC-1110-1/4-PS-1111 B-J PT PSE-PT1/0 X 4 IN. BRANCH CONNECTION B9.31 UT45 PSE-UT31/2 X UT45T UT45TAN X 3-RC-1143 (FIG NO A-35) 061900 3-RC-1143-18 B-J PT PSE-PT1/0 X	SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION 27.5-RC-1140 (FIG NO A-31) 054700 27.5-RC-1140-1/10-SJ-1141 10 IN. BRANCH CONNECTION 27.5-RC-1130 (FIG NO A-32) 27.5-RC-1130 (FIG NO A-32) 27.5-RC-1130 (FIG NO A-32) 27.5-RC-1110 (FIG NO A-32) 27.5-RC-1110 (FIG NO A-32) 27.5-RC-1110 (FIG NO A-34) 27.5-RC-1110 (FIG NO A-34) 27.5-RC-1110 (FIG NO A-34) 27.5-RC-1110 (FIG NO A-35) 27.5-RC-1110 (FIG NO A-35)	SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION 27.5-RC-1140 (FIG NO A-31) 054700 27.5-RC-1140-1/10-SJ-1141 10 IN. BRANCH CONNECTION 27.5-RC-1130 (FIG NO A-32) 27.5-RC-1130 (FIG NO A-32) 27.5-RC-1130-2 PIPE TO PIPE 8-J B9.31 UT45 PSE-PT1/0 B9.31 UT45 PSE-PT1/0 X UT39T 27.5-RC-1130-2 PIPE TO PIPE 8-J B9.11 UT45 PSE-UT31/1 X UT45T UT45T UT45T UT45T UT45T X UT45T UT45T UT45T X UT45T UT45T UT45T UT45T X UT45T UT45T UT45T UT45T UT45T X UT45T U

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SALEM NUCLEAR POWER STATION UNIT 1
SUMMARY OF NONDESTRUCTIVE EXAMINATIONS
SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)
CLASS 1 COMPLETED COMPONENTS

PAGE: 20

RESIDUAL HEAT REMOVAL SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION 14-RH-1111 (FIG NO A-52)	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	E	G E O M	H	REMARKS **CALIBRATION BLOCK**
092300	14-RH-1111-1/6-SJ-1111 6 IN. BRANCH CONNECTION	8-J 89.31	PT UT45 UT45T	PSE-PT1/0 PSE-UT31/2	X		•	EXAMINED FROM BOTH SIDES. **14-SS-160-1.400-78-SAM**
093700	14-RH-1111-15 PIPE TO ELBOW	B-J B9.11	PT UT45 UT45T	PSE-PT1/0 PSE-UT31/2	•	- x -	-	EXAMINED PER IEB 76-06. UT45 INDICATION IS A GEOMETRIC REFLRECTOR FROM THE WELD ROOT. **14-SS-160-1.400-78-SAM**

SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

SAFETY	INJECTION	SYSTEM
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SAFELI	INJECTION STATEM							
					N		0	
	•	ASME			_	G	•	
~ ~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		SEC. XI	_			Ε		
	EXAMINATION AREA	CATGY	EXAM		Ε	0	Ε	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
	***************************************		•		•	•	•.	•••••
	10-SJ-1121 (FIG NO A-56)							
100300	10-SJ-1121-8PS	B-K-1	PT	PSE-PT1/0	¥			
	PENETRATION TO PIPE	B10.10	••		_			
100500	10-sj-1121-10	B-J	PT	PSE-PT1/0	X			EXAMINED PER IEB 76-06. UT45
	ELBOW TO PIPE	B9.11	UT45	PSE-UT31/2	-	X		INDICATIONS ARE GEOMETRIC REFLECTORS
			UT45T					FROM THE WELD ROOT.
			UT45TAN			•		
								10-SS-160-1.119-22-SAM
100800	10-sJ-1121-13	B-J	PŤ	PSE-PT1/0	x	_		EXAMINED PER IEB 76-06. UT45
	PIPE TO ELBOW	B9.11	UT45	PSE-UT31/2			-	
			UT45T				•	
			UT45TAN			_		TROM THE WELD ROOT.
					^			**10-SS-160-1.119-22-SAM**
	10-sj-1121-16/2-sj-1129	B-J	PT	PSE-PT1/0	X	-	-	
	2 IN. BRANCH CONNECTION	B9.32						
								•
•	10-SJ-1111 (FIG NO A-57)							
	10 00 1111 (110 NO N 31)							<u>.</u>
103700	10-sj-1111-18	B-J	PT	PSE-PT1/0	¥			UT45 INDICATION IS A GEOMETRIC REFLECTOR
	VALVE TO ELBOW			PSE-UT31/2				FROM THE WELD ROOT. NO UT FROM THE
			UT45T	· · · -				
			UT45TAN			•		UPSTREAM SIDE DUE TO VALVE
			MAICHIU		A	•	•	CONFIGURATION.
								10-SS-160-1.119-22-SAM
:	8-SJ-1162 (FIG NO A-58, A-59)							
107400	8-SJ-1162-28	B-J	PT :	PSE-PT1/0	¥			UT45 INDICATIONS 1, 2, 4 AND 5 ARE
				PSE-UT31/2			•	GEOMETRIC REFLECTORS FROM THE WELD ROOT
			UT45T	· ·			•	INDICATIONS 3 AND 6 ARE CROWN GEOMETRY.
			UTASTAN		^	-	-	INDICATIONS 3 AND S ARE CROWN GEOMETRY.

UT45TAN

8-SS-XX-.860-23-SAM

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

SAFETY INJECTION SYSTEM

SAFETY	INJECTION SYSTEM							
					N		0	
		ASME				G		
		SEC. XI				Ε		
	EXAMINATION AREA	CATGY			_		E	· · · · · -
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE			R	**CALIBRATION BLOCK**
			•••••		•	-	•.	***************************************
	8-SJ-1162 (FIG NO A-58, A-59)							
	0-33-1102 (FIG NO A-30, A-37)							
107700	8-SJ-1162-30PS	8-K-1	PT	PSE-PT1/0	X	-	-	
	PIPE TO PENETRATION	B10.10						
	8-SJ-1145 (FIG NO A-62)							
111800	8-SJ-1145-3	B-J	DT	PSE-PT1/0	¥			EXAMINED PER IEB 76-06. UT45
111000	PIPE TO PIPE	B9.11		PSE-UT31/1			-	
		57111	UT45T				-	
			UT45TAN					
								8-SS-XX860-23-SAM
								·
	6-SJ-1142 (FIG NO A-64)							
11/300	6-SJ-1142-5	01	PT	DCE-DT1/0	U	_	_	EVANIUM DED 150 74-04 HT/E
114300	PIPE TO ELBOW	B-J B9.11	UT45	PSE-PT1/0 PSE-UT31/1				EXAMINED PER IEB 76-06. UT45 INDICATIONS 1 AND 3 ARE GEOMETRIC
	PIPE TO ELBOW	97.11	UT45T	F3E-0131/1				
	•		UT45TAN				-	
			01431AR		^			FROM THE COUNTER BORE.
								6-SS-160764-25-SAM
	6-SJ-1141 (FIG NO A-65)							
	_							
	6-SJ-1141-1	B-1	PT	PSE-PT1/0	•	-	X	EXAMINED PER IEB 76-06. ONE LINEAR
, ·	REDUCER TO ELBOW	B9.11	PT					INDICATION. SEE CNF SAM1-9. REEXAM
			UT45	PSE-UT31/2	X	•	-	AFTER WELD PREPARATION REVEALED NO
			UT45T				-	
			UT45TAN	•	X	•	•	**6-SS-160764-25-SAM**
116400	6-sj-1141-12	8-J	PT	PSE-PT1/0	x	-		EXAMINED PER IEB 76-06. UT45
•	PIPE TO ELBOW	B9.11	UT45	PSE-UT31/2			-	
			UT45T				-	
•			UT45TAN	•			-	**
								*** ** *** ***

6-SS-160-.764-25-SAM

X - - FROM THE WELD ROOT. NO UT ON DOWNSTREA

LIMITED UT FROM THE UPSTREAM SIDE DUE T REDUCER. 100% COVERAGE OBTAINED.

X - - SIDE DUE TO VALVE CONFIGURATION.

6-SS-160-.764-25-SAM

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SALEM NUCLEAR POWER STATION UNIT 1

SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERICO, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

SAFETY	INJECTION	SYSTEM

SAFETY	INJECTION SYSTEM							
	•				N		0	
		ASME			0	G	T	
CHUMADA	/ FV4W1W1710W 4054	SEC. XI				E	-	
	EXAMINATION AREA	CATGY	EXAM		E		E	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
					•	•	•.	
	6-SJ-1131 (FIG NO A-67)							
119800	6-SJ-1131-10	B-J	PŤ	PSE-PT1/0	¥			EXAMINED PER IEB 76-06. UT45
	PIPE TO ELBOW	B9.11	UT45	PSE-UT31/2			-	
			UT45T					THE STATE OF THE SECTIONS
			UT45TAN		X	-	-	
								6-SS-160764-25-SAM
120600	6-SJ-1131-18	8 - J	PT	PSE-PT1/0	v		_	EXAMINED PER LEB 76-06.
	ELBOW TO VALVE	B9.11	UT45	PSE-UT31/2		•		EAAMINED PER 128 /0-00.
	-		UT45T	. 32 3.3.72				
	•		UT45TAN			-		
								6-SS-160764-25-SAM
	6-SJ-1122 (FIG NO A-68)							
122100	6-SJ-1122-12	8-J	PT	PSE-PT1/0	¥			EXAMINED PER IEB 76-06. NO UT FROM THE
	PIPE TO TEE	89.11	UT45	PSE-UT31/2				DOWNSTREAM SIDE DUE TO THE
			UT45T					
	•		UT45TAN					30H 100KH 10H.
					.,			**6-SS-160764-25-SAM**
	6-SJ-1112 (FIG NO A-70)							
123600	6-SJ-1112-9	8-J	PT	PSE-PT1/0	J			
	PIPE TO ELBOW	B9.11	UT45	PSE-UT31/2			•	
		07. 11	UT45T	P3E-0131/2				
			UT45TAN				•	FROM THE WELD ROOT.
•			GIAZIAN		^	•	-	**6-SS-160764-25-SAM**
	6-SJ-1111 (FIG NO A-71)							
124100	6-SJ-1111-1	8-J	PT	DCC-DT1 /A	u			5VAM11150 050 150 7/ 2/ 1:5:1
	REDUCER TO VALVE	B9.11		PSE-PT1/0				EXAMINED PER IEB 76-06. UT45
	NEUGOCA IO TALTE	97.11	UT45	PSE-UT31/2	•	X	-	INDICATIONS ARE GEOMETRIC REFLECTORS

UT45T

UT45TAN

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

SAFETY INJECTION SYS	STEM
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SAFELT	INJECTION SYSTEM							
					N		0	
		ASME		•	0	G	T	
	•	SEC. XI			R	Ε	Н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Ε	0	Ε	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	С	М	R	**CALIBRATION BLOCK**
• • • • • • • • • • • • • • • • • • • •					-			
							•	
	4-SJ-1194 (FIG NO A-73)							
125100	4-SJ-1194-5	8-J	ΡĪ	PSE-PT1/0	¥		-	EXAMINED PER IEB 76-06. UT45 INDICATION
	PIPE TO ELBOW		UT45	PSE-UT31/1				
	1112 10 22504	07.71	UT45T	73E-013171				IS A GEOMETRIC REFLECTOR FROM THE WELD
							-	ROOT.
			UT45TAN		Х	-	•	
								4-SS-160533-28-SAM-R
125700	4-SJ-1194-9	B-J	PT	PSE-PT1/0	¥		-	EXAMINED PER IEB 76-06. UT45 INDICATION
	PIPE TO ELBOW	B9.11	UT45	PSE-UT31/1				IS A GEOMETRIC REFLECTOR FROM THE WELD
	1112 10 222011	07.11		F3E-0131/1				
			UT45T				-	ROOT.
	•		UT45TAN	•	X	-	•	
				,				**4-SS-160533-28-SAM-R**
5500	4-SJ-1194-17	B-J	PT	PSE-PT1/0	v		-	EXAMINED PER IEB 76-06.
	ELBOW TO PIPE	B9.11	UT45	PSE-UT31/1				EXAMINED PER 1EB 70-00.
	LLBOW TO FIFE	97.11		F3E-0131/1		•		
			UT45T			-		
			UT45TAN		X	-	-	
	•			•				**4-SS-160533-28-SAM-R**
	3-SJ-1192 (FIG NO A-72)							
135400	3-SJ-1192-12/1.5-SJ-1112	B-J	PT	PSE-PT1/0	x	_		•
	1 1/2IN. BRANCH CONNECTION	B9.32			^			
	. I/ EINE DIVINGIE CONNECTION	67.JC			•			
•	•							
;								•
	2-SJ-1149 (FIG NO A-76, A-77)							
136000	2-SJ-1149-2	B-J	PT	DSE-DT1/0	x	_	_	
.55000		B9.40	rı	PSE-PT1/0	×	-	•	
	FIFE TO FLANGE							•
		~						
477000	0 0 1440 47	:						
15/200	2-SJ-1149-13		PT	PSE-PT1/0	X	-	•	
	TEE TO REDUCER	B9.40						

SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

C A	CETY	TM	CCT	CN	SYSTEM
SA	reii	IN.	JEGIJ	UNI	SISIEM

	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	R E C		•	REMARKS **CALIBRATION BLOCK**
140000	2-SJ-1149 (FIG NO A-76, A-77) 2-SJ-1149-41 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	x		-	
140400	2-SJ-1149-45 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	x	-	•	
4/1100	2-SJ-1147 (FIG NO A-78) 2-SJ-1147-5	B-J	PT	PSE-PT1/0	v			
141100	ELBOW TO PIPE	B9.40	ri	P3E-P11/U	X	•		
142400	2-SJ-1147-17 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	X	•	•	
143300	2-SJ-1139 (FIG NO A-79) 2-SJ-1139-1 REDUCING ELBOW TO PIPE	B-J B9.21	PT	PSE-PT1/0	x	-	•	
143900	2-SJ-1139-4 PIPE TO VALVE	B-J B9.40	PT	PSE-PT1/0	X	-	•	·
145100	2-SJ-1139-16 ELBOW TO PIPE	B-J B9.40	PT	PSE-PT1/0	x	-	•	

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SALEM NUCLEAR POWER STATION UNIT 1

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SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

SAFETY	INJECTION	SYSTEM

								•
					N		0	
		ASME -			0		T	
		SEC. XI				Ε		
	Y EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS .
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
	• • • • • • • • • • • • • • • • • • • •				•	•	- .	
	2-SJ-1139 (FIG NO A-79)							
146300	2-SJ-1139-28	B-J	PT	PSE-PT1/0	x			
	ELBOW TO PIPE	B9.40		,	••			
	2-SJ-1137 (FIG NO A-80)							
148100	2-SJ-1137-12	B-J	PT	PSE-PT1/0	-	-	x	ONE LINEAR INDICATION. SEE CNF SAM1-1.
	PIPE TO VALVE	B9.40	PT				-	
	•							REVEALED NO RECORDABLE INDICATIONS.
149300	2-SJ-1137-24	B-J	PT	PSE-PT1/0	x	-		
	ELBOW TO PIPE	B9.40						
	2-SJ-1129 (FIG NO A-81, A-82)							
151000	2.01.1170.0							·
151000	2-SJ-1129-8 PIPE TO ELBOW	B-J	PT	PSE-PT1/0	X	•	-	
	PIPE TO ELBOW	B9.40						
152700	2-SJ-1129-21							
132300	PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	X	-	-	
	, inc. to ceson	57.40		•				ADJACENT PIPING. EXAMINED 84% OF
;								REQUIRED AREA.
153500	2-sJ-1129-33	n_ 1		202:224.6	•			
10000	PIPE TO COUPLING	B-J B9.40	PT	PSE-PT1/0	X	-	•	•
	FIFE TO COUPLING	D7.4U						
154300	2-SJ-1129-41	B-J	PT	PSE-PT1/0	x		-	
8'	PIPE TO ELBOW	B9.40						

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CAEETY	INJECTION	CVCTEM
SAFEIT	INJECTION	2121EH

SAFELI	INVECTION STATEM							
	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM	PROCEDURE	O R E C		T H E R	
154700	2-SJ-1129 (FIG NO A-81, A-82) 2-SJ-1129-45 PIPE TO COUPLING	B-J B9.40	PT	PSE-PT1/O		•	•	
155300	2-SJ-1128 (FIG NO A-83,84,85) 2-SJ-1128-18 COUPLING TO PIPE	B-J B9.40	PT	PSE-PT1/0	x	-	-	
	2-SJ-1128-13 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	x	-	-	
	2-SJ-1128-27 COUPLING TO PIPE	B-J B9.40	PT	PSE-PT1/0	x	•	-	
	2-SJ-1128-49 COUPLING TO PIPE	B-J B9.40	PT	PSE-PT1/0	x	-	-	
	2-SJ-1128-61 PIPE TO ELBOW	8-J 89.40	PT .	PSE-PT1/0	x	-	-	
	2-SJ-1128-69 COUPLING TO PIPE	B-J B9.40	PT	PSE-PT1/0	x	•	-	· ·
	2-SJ-1119 (FIG NO A-86)			•				
	2-SJ-1119-9 ELBOW TO PIPE	B-J B9.40	PT .	PSE-PT1/0	X	-	•	

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

SAFETY	INJECTI	ION SYSTEM	ı
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PIPE TO ELBOW

B9.40

SAFETY	INJECTION SYSTEM							
	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	R E			REMARKS **CALIBRATION BLOCK**
4.7000	2-SJ-1119 (FIG NO A-86)			205 274 (2	•			
165000	2-SJ-1119-21 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	X	-	•	
	2-SJ-1118 (FIG NO A-87, A-88)							
165400	2-SJ-1118-1 REDUCER TO PIPE	B-J B9.21	PT	PSE-PT1/0	X	-	•	
166700	2-SJ-1118-13 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	x	-	-	•
167900	2-SJ-1118-25 ELBOW TO PIPE	B-J B9.40	PT	PSE-PT1/0	X	-	•	
169100	2-SJ-1118-37 COUPLING TO PIPE	B-J B9.40	PT .	PSE-PT1/0	x	-	•	
	•							
169800	2-SJ-1118-44 TEE TO PIPE	B-J B9.40	PT	PSE-PT1/0	X	-	•	
	1.5-sj-1142 (FIG NO A-89,90,91	2						
170400	1 1/2-SJ-1142-5	8-J	PT	PSE-PT1/0	X	-	-	

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

SAFETY	INJECTI	ON SYSTEM

SAFETY	INJECTION SYSTEM						_	
		ASME			N	G	0	
		SEC. XI				E		
CI IMMA DV	EXAMINATION AREA	CATGY	FYAM					REMARKS
	IDENTIFICATION	ITEM NO		PROCEDURE				**CALIBRATION BLOCK**
							-	
	1.5-SJ-1142 (FIG NO A-89,90,91	2						
171700	1 1/2-SJ-1142-17	B-J	PT	PSE-PT1/0	X	-	-	
	ELBOW TO PIPE	B9.40						
		•						,
477000	4.4.0.0.4440.00							
172900	1 1/2-SJ-1142-29 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	X	-	-	
	FIFE TO LEBON	87,40						
174400	1 1/2-SJ-1142-44	B-J	PT	PSE-PT1/0	x	_		
	PIPE TO ELBOW	B9.40						
175000	1 1/2-SJ-1142-50	B-J	PT	PSE-PT1/0	X	-	-	EXAMINED PER 1EB 88-08.
	VALVE TO PIPE	B9.40	UT45	PSE-UT39/1	X	•	-	
			UT45T	•	X	•	-	
	*		UT70		X	-	-	
								1.5-SS-COUP-111-SAM
175100	1 1/2-SJ-1142-51	B-J	PT	PSE-PT1/0				EXAMINED PER IEB 88-08.
	PIPE TO ELBOW	B9.40	UT45	PSE-UT39/1		-		
			UT45T UT70			-		
	•		.0170		^			**1.5-SS-COUP-111-SAM**
								•
175200	1 1/2-SJ-1142-52	B-J	PT	PSE-PT1/0	х		-	EXAMINED PER IEB 88-08.
	ELBOW TO PIPE	B9.40	UT45	PSE-UT39/1	X	-	-	
			UT45T		X	-	-	
			UT70		X	-	-	
	• ,							**1.5-SS-COUP-111-SAM**
175300	1 1/2-SJ-1142-53	B-J	PT	PSE-PT1/0		-		EXAMINED PER IEB 88-08.
	PIPE TO BRANCH CONNECTION	B9.40	UT45	PSE-UT39/1		•		
			UT45T			-		
			UT70		X	-	-	**1.5-SS-COUP-111-SAM**
								1.J-55-COUP* 1*5AM**

SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

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SLIMMARY	EXAMINATION AREA	ASME SEC. XI CATGY	EXAM	·	_	G E O		REMARKS
	IDENTIFICATION	ITEM NO	•	PROCEDURE	c		R	**CALIBRATION BLOCK**
	1.5-SJ-1132 (FIG NO A-92, A-93	<u>s)</u>						
176200	1 1/2-SJ-1132-9 PIPE TO ELBOW	B-J B9.40	PT	PSE-PT1/0	x	•	-	
177500	1 1/2-SJ-1132-19 PIPE TO TEE	B-J B9.40	PT	PSE-PT1/0	x	•	-	
179600	1 1/2-SJ-1132-40 VALVE TO PIPE	B-J B9.40	PT PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X X X	- -	-	CODE ALLOWABLE DIMENSIONS. SEE CNF SAM1-8. REEXAMINATION AFTER SURFACE
179700	1 1/2-SJ:1132-41 PIPE TO ELBOW	8-J 89.40	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X	· ·	-	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**
179800 .:	1 1/2-SJ-1132-42 ELBOW TO PIPE	B-J B9.40	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X	-	•	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**
179900	1 1/2-SJ-1132-43 . PIPE TO BRANCH CONNECTION	B-J B9.40	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X X		-	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 1 COMPLETED COMPONENTS

SAFETY INJECTION SYSTEM

					N		0	
		ASME			0	G	Ţ	
		SEC. XI			R	Ε	Н	
	EXAMINATION AREA	CATGY	EXAM		Ε	0	Ε	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	С	M	R	**CALIBRATION BLOCK**
				• ••••••	-	-	- .	
	1.5-SJ-1122 (FIG NO A-94, A-9	<u>5)</u>						
180100	1 1/2-SJ-1122-2	B-J	PT	PSE-PT1/0	x	_	_	
	ELBOW TO PIPE	B9.40			^			
180700	1 1/2-SJ-1122-5	B-J	PT	PSE-PT1/0	x		_	
	PIPE TO TEE	B9.40		732 71170	^			
191/00	1 1/2-sJ-1122-11							
161400	ELBOW TO PIPE	B-J B9.40	PT	PSE-PT1/0	X	•	•	
183800	1 1/2-sJ-1122-33	B-J	PT	PSE-PT1/0	X	-	-	
	PIPE TO COUPLING	B9.40						
,	-							
184800	1 1/2-sj-1122-43	B-J	PT	PSE-PT1/0	x	-	-	EXAMINED PER IEB 88-08.
	VALVE TO PIPE	B9.40	UT45	PSE-UT39/1	X	-	-	
			UT45T		х	-	_	
			UT70					
								1.5-SS-COUP-111-SAM
184900	1 1/2-SJ-1122-44	B-J	PT	DCC_DT1 (0	v			5V444V55 555' 455 66 66
	PIPE TO ELBOW	B9.40	UT45	PSE-PT1/0 PSE-UT39/1		•	•	EXAMINED PER IEB 88-08.
		67.40		P36-0139/1				
			UT45T			•		
			0170		X	-	•	**1.5-SS-COUP-111-SAM**
								1.3-33-COUP-111-3AM***
185000	1 1/2-SJ-1122-45	8-J	PT	PSE-PT1/0	x			EXAMINED PER IEB 88-08.
	ELBOW TO PIPE	B9.40	UT45	PSE-UT39/1		-		
			UT45T		X	-	-	
			UT70		X	-	-	
								1.5-SS-COUP-111-SAM

SALEM NUCLEAR POWER STATION UNIT 1
SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

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SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

SAFFTY	INJECTION	SYSTEM

	EXAMINATION AREA IDENTIFICATION 1.5-SJ-1122 (FIG NO A-94, A-95	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	E	E 0	Н	REMARKS **CALIBRATION BLOCK**
185100	1 1/2-SJ-1122-46 PIPE TO BRANCH CONNECTION	8-J 89.40	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X	-	-	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**
185800	1.5-sj-1112 (FIG NO A-96, A-97	<u>)</u> 8-J	PT	PSE-PT1/0	x	•	•	
	PIPE TO FLANGE	B9.40			•			
400	1 1/2-SJ-1112-12 ELBOW TO PIPE	8-J 89.40	PT	PSE-PT1/0	x	•	-	
187100	1 1/2-sJ-1112-19 PIPE TO TEE	B-J B9.40	PT	PSE-PT1/0	x	-	-	
188300	1 1/2-SJ-1112-31 ELBOW TO PIPE	B-J B9.40	PT	PSE-PT1/0	x	-	-	·
	1 1/2-SJ-1112-43 ELBOW TO PIPE	B-J B9.40	PT	PSE-PT1/0	x	•	•	
	1 1/2-SJ-1112-50 VALVE TO PIPE	B-J B9.40	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X	<u>-</u>	-	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

	SAFETY	INJECTION	SYSTEM
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	EXAMINATION AREA IDENTIFICATION 1.5-SJ-1112 (FIG NO A-96, A-97	CATGY ITEM NO	EXAM METHOD	PROCEDURE	Ε	G E O M	H	REMARKS **CALIBRATION BLOCK**
190300	1 1/2-SJ-1112-51 PIPE TO ELBOW	B-J B9.40	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X X	-	•	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**
190400	1 1/2-SJ-1112-52 ELBOW TO PIPE	•	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X		-	EXAMINED PER IEB 88-08. **1.5-SS-COUP-111-SAM**
190500	· ·	B9.40	PT UT45 UT45T UT70	PSE-PT1/0 PSE-UT39/1	X X	-	-	**1.5-SS-COUP-111-SAM**

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SALEM NUCLEAR POWER STATION UNIT 1
SUMMARY OF NONDESTRUCTIVE EXAMINATIONS
SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)
CLASS 1 COMPLETED COMPONENTS

PAGE:

5-CSCL-42-SAM/50-SAM

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REACTOR COOLANT PUMP 11

REACTOR	COOLANT PUMP 11							
					N		0	
		ASME			0	G	T	
	•	SEC. XI			R	Ε	Н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Ε	0	Ε	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
		•••••		***************************************	-	•	- .	
	BOLTING (FIG NO A-98)		•				•	
190800	11-PMP-BOLTS 1-24 (IN PLACE)	8-G-1	UT60	PSE-UT18/0	x	٠.	-	NO EXAM ON BOLTS 3, 4, 5, 6, 13, 22, AND
	•	B6.180	UT88		X	-	•	23 DUE TO OBSTRUCTIONS FROM OIL PANS,
								CVC AND INSTRUMENT LINES.
								4.575-8-CS-70-SAM
	PUMP MOTOR FLYWHEEL (FIG NO A-	981						
								•
191300	11-PMP-FLW		UTOL	PSE-UT6/1	X	-	-	FLYWHEEL EXAMINED IN PLACE IN ACCORDANCE
	PUMP MOTOR FLYWHEEL	RG1.14	UT45	(IN PLACE)	X	-	-	WITH REG. GUIDE 1.14. NO PT AND MT
								PERFORMED. LIMITED UT DUE TO BORE AND
								BOLT HOLES.

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

REACTOR COOLANT PUMP 12

0 ASME OGT SEC. XI REH SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK** BOLTING (FIG NO A-98) 191600 12-PMP-BOLTS 1-24 (IN PLACE) B-G-1 UT60 PSE-UT18/0 NO EXAM ON BOLTS 3, 4, 5, 6, 7, 13, 14, x - -B6.180 UT88 X - - AND 23 DUE TO OBSTRUCTIONS FROM OIL PANS, CVC AND INSTRUMENT LINES. **4.5-.75-8-CS-70-SAM** PUMP MOTOR FLYWHEEL (FIG NO A-98)

192100 12-PMP-FLW --- UTOL PSE-UT6/1 X - - EXAMINED IN PLACE IN ACCORDANCE WITH 35-76P917 RG1.14 UT45 (IN PLACE) X - - REG. GUIDE 1.14. NO PT AND MT

PERFORMED. LIMITED UT DUE TO BORE AND BOLT HOLES.

42-SAM/50-SAM

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SALEM NUCLEAR POWER STATION UNIT 1
SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 1 COMPLETED COMPONENTS

REACTOR COOLANT PUMP 14

ASME O G T
SEC. XI R E H
SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS
NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

BOLTING (FIG NO A-98)

193200 14-PMP-BOLTS 1-24 (IN PLACE) B-G-1 UT60 PSE-UT18/0 X - - NO EXAM ON BOLTS 1, 2, 13, 19, 22, 23,

86.180 UT88 X - - AND 24 DUE TO OBSTRUCTIONS FROM OIL

PANS, CVC AND INSTRUMENT LINES. NO EXAM ON BOLTS 3 AND 11 DUE TO OBSTRUCTIONS IN

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HEATER HOLES. **4.5-.75-8-CS-70-SAM** DATE: 08/27/92 REVISION: 0

SALEM NUCLEAR POWER STATION UNIT 1

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SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 2 COMPLETED COMPONENTS

STEAM GENERATOR 12

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	R E	G E O M -	E	REMARKS **CALIBRATION BLOCK**
	CIRCUMFERENTIAL WELDS (FIG NO	<u>A-5)</u>					-	
201500	12-STG-24 TRANSITION CONE TO SHELL C	C-A C1.10	UT0W UT45 UT45T UT60 UT60T	PSE-UT49/1 PSE-UT15/1	X X X X	-		EXAMINED WELD PLUS 1T OF BASE MATERIAL FROM L=540" TO L=25", L=156" TO L=196" AND L=348" TO L=388" (120"). SPECIAL EXAMINATION AT THE REQUEST OF PSE&G. **PL-3-CS-51-SAM**

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SALEM NUCLEAR POWER STATION UNIT 1
SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

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SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 2 COMPLETED COMPONENTS

BORON INJECTION TANK

ASME O G T

SEC. XI R E H

SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

SUPPORTS (FIG NO B-108)

204490 1-BIT-VS-2 C-C MT PSE-MT1/0 X - - LIMITED EXAM DUE TO INSULATION SUPPORT

SUPPORT AT 135 DEG. C3.10 RING. EXAMINED OVER 90% OF REQUIRED

AREA.

DATE: 08/27/92 REVISION: 0

SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

F	Ε	Ε	D	W	٨	T	E	R	S,	YS'	TΕ	M	

FEEDWA1	TER SYSTEM							
					N		0	
•		ASME			٥	G	T	
		SEC. XI			R	E	H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
					-	-	-	
							•	
	14-BF-2131 (FIG NO B-11)							
								•
210800	14-BF-2131-1	C-F-2	MT	PSE-MT1/0	X	-	-	NO UT FROM THE UPSTREAM SIDE DUE TO
	VALVE TO PIPE	C5.51	ÙT45	PSE-UT41/1	X	-	-	VALVE CONFIGURATION. 100% OF CODE
			UT451		X	-	-	REQUIRED COVERAGE OBTAINED.
	•							**14-CS-120-1.14-36-SAM**
	•							
								•
211650	14-BF-2131-10PS	C-C	мт	PSE-MT1/0	x	-		
	PIPE SUPPORT	C3.20		•				•
				•				
							-	
	14-BF-2121 (FIG NO B-12)							
			-					
214700	14-BF-2121-1	C-F-2	MT	PSE-MT1/0	¥		_	MT PERFORMED AT REQUEST OF PSE&G AS PART
	VALVE TO PIPE	C5.51			^			OF AN EXPANDED SCOPE DUE TO INDICATION
				-				ON 34-MS-2121-2.
			•					**14-CS-120-1.14-36-SAM**
								14.03 120-1.14-30-3AN
214800	~14-BF-2121-2	C-F-2	MT	PSE-MT1/0	¥	_	-	MT PERFORMED AT REQUEST OF PES&G AS PART
		C5.51			^			OF AN EXPANDED SCOPE DUE TO INDICATION
	,							ON 34-MS-2121-2.
				•				**14-CS-120-1.14-36-SAM**
				•				14-CS-120-1, 14-30-5AR
214910	14-BF-2121-3PL-1	C-C	MT	PSE-MT1/0	x	_		
2.4710	•	C3.20	MI	P3E*M11/U	^	•	-	-
		03.20						
	_							
214020	14-BF-2121-3PL-2	C-C	MT		v			
£14720		C3.20	m i	PSE-MT1/0	X	-	•	
	PIPE LOG	L3.20						
								•
214030	1/-05-2121-701-7	C-C	MT	DCE HT4 /C	v			1 THE TOTAL THE TO STATE TO THE
£ 1473U			MT	PSE-MT1/0	X	•	•	LIMITED EXAM DUE TO PROXIMITY OF
	PIPE LUG	c3.20						PENETRATION. EXAMINED 26% OF REQUIRED
								AREA.

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SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 2 COMPLETED COMPONENTS

FEEDWATER SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	R E	G E	H	REMARKS **CALIBRATION BLOCK**
214940	14-BF-2121 (FIG NO B-12) 14-BF-2121-3PL-4 PIPE LUG	C-C C3.20	мт	PSE-MT1/0	x	-	-	LIMITED EXAM DUE TO PROXIMITY OF PENETRATION AND ADJACENT PIPING. EXAMINED 8% OF REQUIRED AREA.
215100	14-BF-2121-3PS-2 PIPE SUPPORT	C-C C3.20	MT	PSE-MT1/0	x	•	-	

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 2 COMPLETED COMPONENTS

MAIN ST	EAM SYSTEM			•				
					N		0	
		ASME				G		
		SEC. XI				E		
	EXAMINATION AREA	CATGY	EXAM				E	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	С	M	R	**CALIBRATION BLOCK**
					•	-	•	
	34-MS-2141 (FIG NO B-21)							
222300	34-MS-2141-2	C-F-2	MT	PSE-MT1/0	-	_	x	MT PERFORMED (EXPANDED SCOPE) DUE TO
	PIPE TO VALVE	C5.51	MT					INDICATION ON 34-MS-2121-2. NO RECORDABLE INDICATIONS WITHIN THE CODE REQUIRED EXAM AREA. EXAM REVEALED ONE LINEAR INDICATION OUTSIDE THE CODE REQUIRED EXAM AREA, ON ADJACENT VALVE BODY. SEE CNF SAM1-12. **PL-3-CS-51-SAM**
	34-MS-2131 (FIG NO B-22)			-				
		_						
222700	34-MS-2131-1/8-MS-2133	C-F-2	MT	PSE-MT1/0	X	-	•	
	8 IN. BRANCH CONNECTION	C5.81		,				
223200	34-MS-2131-1PL-1 PIPE LUG	C-C C3.20	МТ	PSE-MT1/0	x	-	-	LIMITED EXAM DUE TO INACCESSIBILITY. EXAMINED 90% OF REQUIRED AREA.
	•							
227700	34-MS-2131-1PL-2	C-C	MT	DCE-HT1/O	J		_	LIMITED EXAM DUE TO INACCESSIBILITY.
223300	PIPE LUG	C-C C3.20	m:	PSE-MT1/0	*	•	•	EXAMINED 90% OF REQUIRED AREA.
		43.20						ENAMINED YOU OF REGULED AREA.
223400	34-MS-2131-1PL-3	c-c	мт	PSE-MT1/0	v	-	_	
223400	PIPE LUG	C3.20	(1)	7 32 M 17 0	^			
								•
223500	34-MS-2131-1PL-4	C-C	MT	PSE-MT1/0	X	•	-	
	PIPE LUG	C3.20						
								•
223600	34-MS-2131-1PL-5	C-C	MT	PSE-MT1/0	X	-	•	
	PIPE LUG	C3.20		·				•

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		ASME SEC. XI			0 R		T H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Ε	0	Ε	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE			R	····· ····
			**********		•	-	-	
	34-MS-2131 (FIG NO B-22)							
223700	34-MS-2131-1PL-6 PIPE LUG	C-C C3.20	МТ	PSE-MT1/0	X	•	-	
223800	34-MS-2131-1PL-7 PIPE LUG	C-C C3.20	нт	PSE-MT1/0	x	•	-	
224000	34-MS-2131-1PL-9	c-c	мт	PSE-MT1/0	x	-		
	PIPE LUG	C3.20						
	34-MS-2131-1PL-10 PIPE LUG	C-C C3.20	MT	PSE-MT1/0	X	•	•	
	·							
224010	34-MS-2131-1PL-11	c-c	MT	PSE-MT1/0	x			LIMITED EXAM DUE TO INACCESSIBILITY.
	PIPE LUG	C3.20						EXAMINED 90% OF REQUIRED AREA.
224015	34-MS-2131-1PL-12	0.0	u=	200 1100				
	PIPE LUG	C-C C3.20	МТ	PSE-MT1/0	X	-	•	LIMITED EXAM DUE TO INACCESSIBILITY. EXAMINED 90% OF REQUIRED AREA.
			ì					
		C-C C3.20	МТ	PSE-MT1/0	x	•	-	
224025	34-MS-2131-1PL-14	: C-C	MT	PSE-MT1/0	x	_		
		C3.20	•••	, •	^			

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 2 COMPLETED COMPONENTS

MAIN ST	EAM SYSTEM							
					N		0	,
		ASME			0	G	T	g -
		SEC. XI			R	E	H	.
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Ε	0	Ε	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
					-	-	•	•••••
								•
	34-MS-2131 (FIG NO B-22)							
224030	34-MS-2131-1PL-15	C-C	MT	PSE-MT1/0	X	-	•	
	PIPE LUG	C3.20						
224035	34-MS-2131-1PL-16	C-C	MT	PSE-MT1/0	X	-	-	
	PIPE LUG	C3.20						
224040	34-MS-2131-1PL-17	C-C	MT	PSE-MT1/0	X	-	-	
	PIPE LUG	C3.20				•		•
	•							
224045	34-MS-2131-1PL-18	C-C	MT	PSE-MT1/0	х	_	-	
	PIPE LUG	C3.20						
				•				
	~							
224050	34-MS-2131-1PL-19	C-C	MT	PSE-MT1/0	-	-	х	ONE CODE ALLOWABLE INDICATION. SEE CNF
	PIPE LUG	C3.20						SAM1-10. ACCEPTED "AS IS" BY PSE&G
								PERSONNEL.
							•	
224055	34-MS-2131-1PL-20	C-C	MT	PSE-MT1/0	x	-	-	
	PIPE LUG	C3.20						
		33123						•
•								
224040	34-MS-2131-1PL-21	·c-c	MT	PSE-MT1/0	¥	_		LIMITED EXAM DUE TO INACCESSIBILITY.
LL-1000	PIPE LUG	C3.20		· •= III 1/ 0	^			EXAMINED 90% OF REQUIRED AREA.
	FIFE LOG	03.20						COMMITTED YOU OF REMOTINED AREA.
22/ 100	3/_MC_3171_3	C-F-2	МТ	DCE-MT1/0	v	_		MT PERFORMED AT REQUEST OF PSE&G AS PART
224 (00	34-MS-2131-2	C5.51	MT UT	PSE-MT1/0	^	•	-	OF AN EXPANDED SCOPE DUE TO INDICATION
	PIPE TO VALVE	16.60	UI .					ON 34-MS-2121-2.
								PL-3-CS-51-SAM

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 2 COMPLETED COMPONENTS

MAIN ST	EAM SYSTEM							
'					N		0	
		ASME				G		_
	•	SEC. XI				E		·
	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	С	M	R	**CALIBRATION BLOCK**
					•	-	-	
	34-MS-2121 (FIG NO B-23)							
225700	34-MS-2121-2	C-F-2	MT	PSE-MT1/0	-	-	X	MT REVEALED ONE INDICATION WHICH
	PIPE TO VALVE	C5.51	MT		X	-	•	EXCEEDED CODE ALLOWABLE DIMENSIONS. SEE
			UT45	PSE-UT41/1	-	X	-	CNF'S SAM1-11, 11A & B. REEXAM AFTER
			UT45T	·	X	•	-	MECHANICAL REMOVAL OF INDICATION REVEALED NO RECORDABLE INDICATIONS. UT45 INDICATIONS ARE GEOMETRIC REFLECTORS FROM THE INSIDE SURFACE. **PL-3-CS-51-SAM**
	34-MS-2111 (FIG NO B-24)							
	74 7444 5							
227500	34-MS-2111-2	C-F-2	MT	PSE-MT1/0	Х	•	•	MT PERFORMED AT REQUEST OF PSE&G AS PART
	PIPE TO VALVE	C5.51	UT					OF AN EXPANDED SCOPE DUE TO INDICATION
								ON 34-MS-2121-2.
	•							**PL-3-CS-51-SAM**
•	70 vo 0474 voto vo 0 044							•
	32-MS-2131 (FIG NO 8-26)							·
228800	32-MS-2131-2PS-1	c-c	MT	PSE-MT1/0	¥		-	
220000	PIPE SUPPORT	C3.20		752 111170	^			
	2							•
228000	72 ue 3171.20e-3	0.0	ut	DCC HT1/0	v	_		I THITTE EVAN OUE TO OTHE PERTUATURE AND
228900	32-MS-2131-2PS-2	C-C C3.20	MT	PSE-MT1/0	X	•	•	LIMITED EXAM DUE TO PIPE RESTRAINTS AND
	PIPE SUPPORT	L3.20						INSTRUMENTATION LINES. EXAMINED 35.4% OF REQUIRED AREA.
`	,							OF REMOTRED AREA.
	30-MS-2131 (FIG NO B-26)							
			•					
236400	30-MS-2131-8	C-F-2	MT	PSE-MT1/0				UT45 INDICATION IS A GEOMETRIC REFLECTOR
	PIPE TO ELBOW	C5.51	UT45	PSE-UT41/1		X		FROM THE ID SURFACE.
			UT45T		X	-	-	4 F 4F
	•							**PL-1.5-CS-65-SAM**
27//20	70 no 2474 di b .	0.53	uz	005-471/0				2 ET /7 7510 OF 1910 LENGTH DEGINER
230420	30-MS-2131-8LD-I	C-F-2	MT	PSE-MT1/0		•		• • • • • • • • • • • • • • • • • • • •
_	LONGITUDINAL	C5.52	UT45	PSE-UT41/1		•		EXAMINED 12" OF WELD LENGTH.
			UT45T		X	-	-	**** 4 5 00 /5 000**
				•				**PL-1.5-CS-65-SAM**

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 2 COMPLETED COMPONENTS

MA I	M	STEAM	SYSTEM
ma i		3 6 7 17	313167

					N		0	
		ASME			a	G	T	
		SEC. XI				E		•
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0		REMARKS
	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	c	М	_	**CALIBRATION BLOCK**
NOMBER	TOURIST TOUR		111100	PROCEDURE	-	-	_	CALIBRATION DEGER
					_	_		
	30-MS-2131 (FIG NO B-26)							
236440	30-MS-2131-8LD-0	C-F-2	MT	PSE-MT1/0	X	-	-	EXAMINED 12" OF WELD LENGTH.
	LONGITUDINAL	C5.52	UT45	PSE-UT41/1	X	-	-	, '
			UT45T		X	-	-	
								PL-1.5-CS-65-SAM
	8-MS-2141 (FIG NO B-29)							
242000	8-MS-2141-1	C-F-2	MT	PSE-MT1/0	X	-	-	LIMITED MT EXAM DUE TO SURROUNDING
	WELDOLET TO ELBOW	C5.51	UT45	PSE-UT41/1	X	-	-	PIPING AND SUPPORT STRUCTURES. EXAMINED
			UT45T	,	X	-	-	65% OF THE REQUIRED AREA. NO UT
								UPSTREAM.
								8-CS-160906-46-SAM
								,
	8-MS-2124 (FIG NO B-31)							
243500	8-MS-2124-2	C-F-2	MT	PSE-MT1/0	X	-	-	LIMITED MT EXAM DUE TO SURROUNDING
	ELBOW TO VALVE	C5.51	UTOL	PSE-UT49/1	X	-	-	PIPING AND SUPPORT STRUCTURES. EXAMINED

PSE-UT41/1

X - - 56% OF THE REQUIRED AREA.

8-CS-160-.906-46-SAM

UT45

UT45T

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SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

8-SS-40-.330-44-SAM

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SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

	CONTAI	NMENT	SPRAY	SYSTEM
--	--------	-------	-------	--------

					N		0	
		ASME			0	G	T	
		SEC. XI			R	Ε	Н	
SUMMARY	Y EXAMINATION AREA	CATGY	EXAM		Ε	0	Ε	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R.	**CALIBRATION BLOCK**
					•	-	- .	
	8-CS-2027 AND 8-CS-2029 (FIG N	0 8-60)						
264224	8-cs-2027-1	C-F-1	PT	PSE-PT1/0	x	-	-	
	PUMP TO PIPE		UT45	PSE-UT35/0	х	-	-	
			UT45T	•	X	-	-	•
	•		UT45TAN		X	-	-	
								8-SS-40330-44-SAM
264234	8-CS-2029-2	C-F-1	PT	PSE-PT1/0	X	-	-	
	PIPE TO ELBOW		UT45	PSE-UT35/0	X	-	-	
	•		UT45T		X	-	-	
			LITASTAN		v	_	_	

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VALVE SUPPORT AT 270 DEG

C3.40

SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 2 COMPLETED COMPONENTS

V۵	INCO	
VM	LVES	

TACTES								
	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM	PROCEDURE	R E C	G E O	H E R	REMARKS **CALIBRATION BLOCK**
	BOLTING							
274200		C-D C4.40	UTO	PSE-UT36/1	x	-	• ,	EXAMINED ALL STUDS.
								**2.563-8-12-MSIV-82-SAM
274400	12 MS 167 LSS LOWER SET STUDS ON LINE 34-MS-2121	C-D C4.2	UTO	PSE-UT36/1	x	•	-	EXAMINED ALL STUDS.
	•	٠.						**2.563-8-12-MSIV-82-SAM
	WELDED SUPPORT (FIG NO 8-28)							
	VALVE SUPPORT AT 90 DEG	C-C C3.40	MT	PSE-MT1/0	x	-	-	
	11 MS 167 VS-1A	C-C C3.40	MT .	PSE-MT1/0	x	-	- ,	
		C-C C3.40	мт	PSE-MT1/0	x	-	-	
	11 MS 167 VS-2 VALVE SUPPORT AT 270 DEG	C3.40	мт	PSE-MT1/0	x ·	-	-	
277840			MT	PSE-MT1/0	х -	•	-	

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 2 COMPLETED COMPONENTS

VALVES

		ASME			N O	G	0 T	
		SEC. XI			R	Ε	Н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	Ε	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
•••••	•••••				-	-	•.	••••
	WELDED SUPPORT (FIG NO 8-28)							
277040	44 112 447 112 62							
277860	11 MS 167 VS-2B VALVE SUPPORT AT 270 DEG	C-C	MT	PSE-MT1/0	X	-	•	
	VALVE SUPPORT AT 270 DEG	C3.40						
	WELDED SUPPORT							
277900	12 MS 167 VS-1	C-C	мт	PSE-MT1/0	x		-	
	VALVE SUPPORT AT 90 DEG	C3.40		•	••			
								•
277940	12 MS 167 VS-1A	C-C	MT	PSE-MT1/0	X	•	-	
	VALVE SUPPORT AT 90 DEG	C3.40						
277960	12 MS 167 VS-1B	C-C	MT	PSE-MT1/0	v	_	_	LIMITED EVAN DUE TO CURROUNDING CURROUT
	VALVE SUPPORT AT 90 DEG	C3.40	en i	P3E-M11/0	^	-	•	LIMITED EXAM DUE TO SURROUNDING SUPPORT STRUCTURES. EXAMINED 64% OF THE
	•							REQUIRED AREA.
278000	12 MS 167 VS-2	C-C	MT	PSE-MT1/0	x	-		
	VALVE SUPPORT AT 270 DEG	C3.40	•					
279040	12 MS 167 VS-2A			DOT 1174 10				
	VALVE SUPPORT AT 270 DEG	C-C	MI	PSE-MT1/0	X	• .	•	•
	and and the same							
278060	12 MS 167 VS-2B	C-C	MT	PSE-MT1/0	x	•	-	
	VALVE SUPPORT AT 270 DEG	C3.40		•			•	

8-\$\$-40-.330-44-\$AM

SALEM NUCLEAR POWER STATION UNIT 1

SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CONTAINMENT	SPRAY
-------------	-------

	•				N		0	
		ASME			0	G	T	
		SEC. XI			R	E	н	•
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
					-	-	•.	
	8-CS-2123 (FIG NO B-63)			e e				
353720	8-cs-2123-2	C-F-1	PT	PSE-PT1/0	x	-	-	
	PIPE TO ELBOW	C5.11	UT45	PSE-UT35/0	X	-	-	
			UT45T		X	-	-	
•			UT45TAN	•	X	-	•	
								8-SS-40330-44-SAM
353740	8-cs-2123-3	C-F-1	PΤ	PSE-PT1/0	x	_		
333140		C5.11	UT45	PSE-UT35/0	•••		_	
	ELBOW TO PIPE	63.11	UT45T	7	x		_	
			UT45TAN					
	•		0143174					**8-SS-40-,330-44-SAM**
	8-CS-2114 (FIG NO B-66)	•						,
355440	8-cs-2114-3	C-F-1	PT	PSE-PT1/0	x			
	ELBOW TO PIPE	C5.11	UT45	PSE-UT35/0	X	-	-	•
			UT45T	·	X	-	-	•
	•		UT45TAN		X	-	-	

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CHEMI	CAL	&	VOLUME	CONTROL

	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	R E	G E O M	H	REMARKS **CALIBRATION BLOCK**
365920	2-CV-2186 (FIG NO 8-80) 2-CV-2186-22 COUPLING TO NOZZLE	C-F-1 C5.30	PT	PSE-PT1/0	x	•	•	
369380	2-CV-2161 (FIG NO B-84) 2-CV-2161-20 ELBOW TO PIPE	C-F-1 C5.30	PT	PSE-PT1/0	x	-	-	
0000	2-CV-2147 (FIG NO B-85) 2-CV-2147-1 VALVE TO PIPE	C-F-1 C5.30	PT .	PSE-PT1/0	x	-	-	
370020	2-CV-2147-2 PIPE TO TEE	C-F-1 C5.30	PT	PSE-PT1/0	x	•	-	
370120 .:	2-CV-2147-7 PIPE TO VALVE	C-F-1 C5.30	PT	PSE-PT1/0	x	•	•	
	2-CV-2147-8 VALVE TO PIPE	C-F-1 C5.30	PT	PSE-PT1/0	×	•	•	
	2-CV-2147-14 PIPE TO ELBOW	C-F-1 ' C5.30	PT PT	PSE-PT1/0	- X			PT EXAM REVEALED ONE LINEAR INDICATION WHICH EXCEEDED CODE ALLOWABLE DIMENSIONS. SEE CNF SAM1-4. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS.

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SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 2 COMPLETED COMPONENTS

CHEMICAL & VOLUME CONTROL

N O ASME O G T

SEC. XI

SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

2-CV-2147 (FIG NO B-85)

ELBOW TO PIPE C5.30

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SALEM NUCLEAR POWER STATION UNIT 1 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992) CLASS 2 COMPLETED COMPONENTS

SAFETY INJECTION

ASME SEC. XI SEC. XI R E H	SAFETY	INJECTION							
SEC. XI								_	
SUMMBER CONTIFICATION CATOY EACH CATOY CAT		-							
NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R ***CALIBRATION BLOCK***									
380000 4-SJ-2150-11 C-F-1 PT PSE-PT1/0 X				_					
380000 4-SJ-2150-1	NUMBER	IDENTIFICATION	ITEM NO	ME I HOO	PROCEDURE	С	M	R	**CALIBRATION BLOCK**
380000 4-SJ-2150-1					*************	-	•	•	
REDUCER TO PIPE C5.21		4-SJ-2150 (FIG NO B-59)							
REDUCER TO PIPE	380000	4-SJ-2150-1	C-F-1	ΡĪ	PSE-PT1/0	X	_		
380240 4-SJ-2150-13 C-F-1 PT PSE-PT1/0 X		REDUCER TO PIPE	C5.21	UTOL	PSE-UT31/1	X	-	-	
UT45TAN X **4-SS-160533-28-SAM-R**				UT45		X	-	-	
380240 4-SJ-2150-13 TEE TO PIPE C5.21 UTOL UT45 UT45T UT45TAN C5.21 UTOL UT45T UT45TAN X **4-SS-160533-28-SAM-R** 260 4-SJ-2150-14 PIPE TO VALVE C5.21 PT UT SEE RMKS REZAMINATION AFTER MELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. UT EXAM SUBSTITUTED WITH 4-SI-2150-13 DUE TO PERMANENT PIPE SUPPORT. **4-SS-160533-28-SAM-R** 2-SJ-2160 (FIG NO 8-103) 385860 2-SJ-2160-10 C5.30 PT PSE-PT1/0 X PT EXAM REVEALED ONE CODE ALLOWABLE TO PERMANENT PIPE SUPPORT. **4-SS-160533-28-SAM-R** 2-SJ-2160-10 C5.30 PT PSE-PT1/0 X PT EXAM REVEALED ONE CODE ALLOWABLE TO PERMANENT PIPE RULP PREPARATION REVEALED NO RECORDABLE INDICATIONS. 385880 2-SJ-2160-10 C5.30 PT PSE-PT1/0 X PT EXAM REVEALED TWO LINEAR INDICATIONS. X SEE CMF SAM1-3. REVEALED NO RECORDABLE INDICATIONS. UT				UT45T		X	-	•	
C5.21				UT45TAN		X	-	-	**4-SS-160533-28-SAM-R**
C5.21	380240	4-sJ-2150-13	C-F-1	PT	PSE-PT1/0	X		-	•
UT45									
UT45T UT45TAN									
D260 4-SJ-2150-14 C-F-1 PT PSE-PT1/0 X PT EXAM REVEALED ONE CODE ALLOWABLE C5.21 PT UT SEE RMKS INDICATION. SEE CNF SAM1-5. REVEALED WITH 4-SI-2150-13 DUE TO PERMAKENT PIPE SUPPORT. **4-SS-160533-28-SAM-R** 2-SJ-2160 (FIG NO B-103) FIG. PT PSE-PT1/0 X PT EXAM REVEALED ONE CODE ALLOWABLE INDICATIONS. UT EXAM SUBSTITUTED WITH 4-SI-2150-13 DUE TO PERMAKENT PIPE SUPPORT. **4-SS-160533-28-SAM-R** 2-SJ-2160 (FIG NO B-103) PT PSE-PT1/0 X PT EXAM REVEALED ONE CODE ALLOWABLE REXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS.									
PIPE TO VALVE C5.21 PT UT SEE RMKS INDICATION. SEE CNF SAM1-5. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. UT EXAM SUBSTITUTED WITH A-SI-2150-13 DUE TO PERMANENT PIPE SUPPORT. **4-SS-160533-28-SAM-R** 2-SJ-2160 (FIG NO 8-103) 385860 2-SJ-2160-9 PIPE TO ELBOW C5.30 PT PSE-PT1/0 X PT EXAM REVEALED ONE CODE ALLOWABLE X - INDICATION. SEE CNF SAM1-3. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 385880 2-SJ-2160-10 C5.30 PT PSE-PT1/0 X PT EXAM REVEALED TWO LINEAR INDICATIONS. X - SEE CNF SAM1-2. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS.						X	-	-	**4-SS-160533-28-SAM-R**
PIPE TO VALVE C5.21 PT UT SEE RMKS INDICATION. SEE CNF SAM1-5. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. UT EXAM SUBSTITUTED WITH A-SI-2150-13 DUE TO PERMANENT PIPE SUPPORT. **4-SS-160533-28-SAM-R** 2-SJ-2160 (FIG NO 8-103) 385860 2-SJ-2160-9 PIPE TO ELBOW C5.30 PT PSE-PT1/0 X PT EXAM REVEALED ONE CODE ALLOWABLE X - INDICATION. SEE CNF SAM1-3. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 385880 2-SJ-2160-10 C5.30 PT PSE-PT1/0 X PT EXAM REVEALED TWO LINEAR INDICATIONS. X - SEE CNF SAM1-2. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS.									
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REVEALED NO RECORDABLE INDICATIONS. UT EXAM SUBSTITUTED WITH 4-SI-2150-13 DUE TO PERMARENT PIPE SUPPORT. **4-SS-160533-28-SAM-R** 2-SJ-2160 (FIG NO B-103) 385860 2-SJ-2160-9 PIPE TO ELBOW C5.30 PT PSE-PT1/0		PIPE TO VALVE	C5.21	PT ·		X	-	•	INDICATION. SEE CNF SAM1-5.
EXAM SUBSTITUTED WITH 4-SI-2150-13 DUE TO PERMANENT PIPE SUPPORT. **4-SS-160533-28-SAM-R** 2-SJ-2160 (FIG NO B-103)				UT	SEE RMKS	-	-	-	REEXAMINATION AFTER WELD PREPARATION
TO PERMANENT PIPE SUPPORT.									REVEALED NO RECORDABLE INDICATIONS. UT
#*4-\$\$-160533-28-\$AM-R** 2-\$J-2160 (FIG NO B-103) 385860 2-\$J-2160-9		•							EXAM SUBSTITUTED WITH 4-SI-2150-13 DUE
2-SJ-2160 (FIG NO B-103) 385860 2-SJ-2160-9		•							TO PERMANENT PIPE SUPPORT.
385860 2-SJ-2160-9 C-F-1 PT PSE-PT1/0 X PT EXAM REVEALED ONE CODE ALLOWABLE PIPE TO ELBOW C5.30 PT X INDICATION. SEE CNF SAM1-3. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 385880 2-SJ-2160-10 C-F-1 PT PSE-PT1/0 X PT EXAM REVEALED TWO LINEAR INDICATIONS. 2-SJ-2123 (FIG NO B-105) 387280 2-SJ-2123-15 C-F-1 PT PSE-PT1/0 X SEE CNF SAM1-2. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.									**4-SS-160533-28-SAM-R**
PIPE TO ELBOW C5.30 PT X INDICATION. SEE CNF SAM1-3. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 385880 2-SJ-2160-10 ELBOW TO PIPE C5.30 PT PSE-PT1/0 - X PT EXAM REVEALED TWO LINEAR INDICATIONS. X SEE CNF SAM1-2. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 2-SJ-2123 (FIG NO B-105) 387280 2-SJ-2123-15 C-F-1 PT PSE-PT1/0 X		2-SJ-2160 (FIG NO B-103)							
PIPE TO ELBOW C5.30 PT X INDICATION. SEE CNF SAM1-3. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 385880 2-SJ-2160-10 ELBOW TO PIPE C5.30 PT PSE-PT1/0 - X PT EXAM REVEALED TWO LINEAR INDICATIONS. X SEE CNF SAM1-2. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 2-SJ-2123 (FIG NO B-105) 387280 2-SJ-2123-15 C-F-1 PT PSE-PT1/0 X									
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385880 2-SJ-2160-10 C-F-1 PT PSE-PT1/0 - X PT EXAM REVEALED TWO LINEAR INDICATIONS. ELBOW TO PIPE C5.30 PT X - SEE CNF SAM1-2. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 2-SJ-2123 (FIG NO B-105) 387280 2-SJ-2123-15 C-F-1 PT PSE-PT1/0 X	;								REEXAMINATION AFTER WELD PREPARATION
ELBOW TO PIPE C5.30 PT X SEE CNF SAM1-2. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 2-SJ-2123 (FIG NO B-105) 387280 2-SJ-2123-15 C-F-1 PT PSE-PT1/0 X									REVEALED NO RECORDABLE INDICATIONS.
ELBOW TO PIPE C5.30 PT X SEE CNF SAM1-2. REEXAMINATION AFTER WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 2-SJ-2123 (FIG NO B-105) 387280 2-SJ-2123-15 C-F-1 PT PSE-PT1/0 X	385880	2-sJ-2160-10	C-F-1	PT	PSE-PT1/0	-	-	x	PT EXAM REVEALED TWO LINEAR INDICATIONS.
WELD PREPARATION REVEALED NO RECORDABLE INDICATIONS. 2-SJ-2123 (FIG NO B-105) 387280 2-SJ-2123-15 C-F-1 PT PSE-PT1/0 X									
387280 2-SJ-2123-15 C-F-1 PT PSE-PT1/0 X									WELD PREPARATION REVEALED NO RECORDABLE
		2-SJ-2123 (FIG NO B-105)							
PIPE TO VALVE C5.30	387280			PT	PSE-PT1/0	X	-	-	
		PIPE TO VALVE	C5.30						

DATE: 08/27/92 REVISION: 0 SALEM NUCLEAR POWER STATION UNIT 1

PAGE:

SUMMARY OF NONDESTRUCTIVE EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST OUTAGE (1992)

CLASS 2 COMPLETED COMPONENTS

SAFETY INJECTION

SUMMARY Number	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	R E	G E O M	H	REMARKS **CALIBRATION BLOCK**
387300	2-SJ-2123 (FIG NO 8-105) 2-SJ-2123-16 VALVE TO PIPE	C-F-1 C5.30	PT	PSE-PT1/0	x	-	-	
387320		C-F-1 C5.30	PT	PSE-PT1/0	x	-	-	

APPENDIX G

CUSTOMER NOTIFICATION FORMS

Table of Contents

CNF No.	Area	Indication(s)	Opened Closed
SAM 1-1	2-SJ-1137-12 Pipe to Valve	7/32-inch linear indication on base material of pipe	4/10/92 4/14/92
SAM 1-2	2-SJ-2160-10 Elbow to Pipe	Two linear indications, one 3/8 inch, one 9/32 inch on base material of elbow	4/14/92 4/17/92
SAM 1-3	2-SJ-2160-9 Pipe to Elbow	1/8-inch linear indication on base material of elbow	4/14/92 4/18/92
SAM 1-4	2-CV-2147-14 Pipe to Elbow	3/8-inch linear indication on base material of elbow	4/15/92 4/29/92
SAM 1-5	4-SJ-2150-14 Pipe to Valve	3/16 inch round indication 1/2 inch from fusion line on pipe side of weld	4/23/92 4/30/92
SAM 1-6; 1-6A, B, and C	6-PR-1103-12 Elbow to Flange	Three linear indications, one 3/4 inch, one 1/8 inch and one 3/16 inch on Flange side 1/2 inch from weld centerline.	4/22/91 5/12/92
SAM 1-7	6-PR-1105-1 Nozzle to Safe End	3/16-inch linear indication on nozzle side, 1/4 inch from weld centerline	4/22/92 4/22/92
SAM 1-8	1 1/2-SJ-1132-40 Valve to Pipe	1/4-inch linear indication on base material of valve	4/23/92 4/29/92
SAM 1-9	6 - S J - 1 1 4 1 - 1 Reducer to Elbow	9-inch linear indication on weld	4/29/92 5/2/92
SAM 1-10	34-MS-2131-1PL-19 Pipe Lug	1/4-inch linear indication on lug side	5/7/92 5/12/92

APPENDIX G

CUSTOMER NOTIFICATION FORMS

Table of Contents (Cont'd)

CNF No.	Area	Indication(s)	<u>Opened</u>	Closed
SAM 1-11, 11A, and 11B	34-MS-2121-2 Pipe to Valve	1-inch linear indication at fusion line on valve	5/13/92	5/19/92
SAM 1-12	34-MS-2141-2 Pipe to Valve	13/16-inch linear indication outside Code-required examination area on valve body	5/16/92	5/19/92



Project No. <u>17-4823</u>	Site: SALAN /	CNF Serial No. SAM / -/
<i>iA8100</i> Examination Area: <u>Z-SJ- 113</u> ;	7 - / 2 Proced	ure No. PSE PT-/
	PART 1 - SWRI Finding	7.11-47
		EDA PT INDICATION
	ON BASEMILTA LOWABLE LENGTH	
IWB-3514-2	· (1/8") ALLOWIABLE	
Attachments: DATA	RESOCUTIO	on 310001
SwRI Signature:	amells	Date: <u>4/10/9</u> Z
	PART II - CNF Received By	
Customer Signature:	Denlinger,	Date: <u>4/10/92</u>
	PART III - Disposition by Custome	
	TION TO BE FLAPPED	• - • • 1
	Trad. FLAPPING TO P	
TO NO HORE Than O	.015 Mil REMOVAL O	F MATRIAL Thicking
	7	e To START FLAPPING.
Customer Signature: Waghe	Desluyer 343	Date:
	PART IV - Reexamination	
Comments:	FION ALTER COSMICT	in the paren
	PALLOWABLE INS	
BILFORET - 350	AFTER T = 0.3.	
	.005 R12	MOVEO
Attachments:		
SwRI Signature: Maa	mells	Date: <u>/4 APE 9 Z</u>
	PART V - CNF Closed By	
Customer Signature: _ Walface	Dealug	Date: 4-/4-92



Project No. <u>17-4823</u> Si	le: SALIEM I	CNF Serial No. SAMI-Z
Examination Area: Z-SJ-Z160	10	Procedure No. PSIE-PT1
	PART I - SWRI Findi	ng.
Comments: PT FR EXAMI	UATION REL	VRACED Z LINIEIRE
INDICATIONS NIHICH	•	
DIMENSIONS OF +	,	3 Stillion XI
FITTING THICK		77"
Attachments: <u>DATA</u> , <u>IIDOIA</u>		
SwRI Signature: M. Ju. ana	ells	Date: 14 APR 92
P.	ART II - CNF Receive	d Bý
Customer Signature: Wayer Den	lege	Date: 4/14/92
PART	iii - Disposition by C	customer
Comments: LINEAR INDICATION	is to be sto	PPED TO DETRAMINE IF IT
· · · · · · · · · · · · · · · · · · ·		a montored with UT'T"
	, , , =	To NO MIRE THAN 0,015
BE 0,205 CA GREATER		as, Wall Thickness MUST
Customer Signature: Lhipe	Parene P	Date: 4/15/92
a i i 11 ja ja mad Salas Cira Maasaa mak ^{a ma} a i 11 Ca la aha sada maa Sadamaa Sada	PART IV - Reexamina	
Comments: REEXAMINETION A	FTER COSMETTE	C WELD PREP REVEALED
NO ALLOWANCE IND.	ICATIONS.	
# BEFORET = . 270	O AFTER T	
#2 BEFORE T = 0265	Art =	.015 HEMOVEB
	AFTGR T	
Attachments: _//0033 , //0/08		.015 Removed
SWRI Signature: Muckey 7 Tles	ns	Date: 17Apr. 1992
P	ART V - CNF Closed	Ву
Customer Signature: Wagn Di	aling	Date: 4/17/92
SWRI Form NDTR-CNF-1, Rev. 2	0	· · · · · · · · · · · · · · · · · · ·



Project No. <u>17-4823</u>	Site: SALER	7/_	CNF Serial No. SAM1 - 3
Examination Area: Z-5/- Z/	160-9	Procedure	No. PSIE-PTI
	PART 1- SWRI		
Comments: PT & KRIMIN CINIZIAR INDICA TABLIZ IWB 351	TION (1/8")	IN ACCO	ROBNEZ VIITH
THICKNIESS I	•		
Attachments: <u>QATA 1100</u>	189 RIESOLO	LYION 31	
SwRI Signature:	Jamels		Date: <u>14 APR 9</u> Z
	PART II - CNF Re	ceived By	
Customer Signature: Nagge	Deslip		Date: 4/14/92
	PART III - Dispositio	n by Customer	
Comments: LINEAR INDICATION	. FLAPPING to	CE MONT	BRED WITH UT'T"
BEFORE & AFTER FLA	ATELIAL Thic	Kruse h	
BE , 205 OR GARAT. Customer Signature: Large	\bigcap	FLAPPING	Date: 4/15/92
/	PART IV - Reex	emination	
Comments: REEXAMINA REVEALED NO AL BEFORE T = 27	LOWABLE IN	DICATION	
Attachments: //0//0			
SwRI Signature: Muly 7	Teams		Date: 174m. 92
V	PART V - CNF C	losed By	
Customer Signature:	e Denling		Date: 4/18/92
SWHIPOM NUIH-CNF-1 Rev 2	//		



SwRI Form NDTR-CNF-1, Rev. 2

Project No. 17-4823 Site: SALEM 1	CNF Serial No. <u>5Am 1 - 4</u>
Examination Area: 2- CV - 2147 - 14 P	rocedure No. PSE PT/
PART I - SWRI Finding	
Comments: PT EXAMINATION REVEALED	1 LINEAR INDICATION
WHICH EXCEEDS THE ALLOWABLE DI	MENSIONS OF THE 83/583
SECTION XI TABLE IWB- 3514-2	
FITTING THECKNESS 0.509	
Attachments: <u>DATA</u> , 1/0032 RESOLUTION K	ECDED 310005
2/1.250	
and the second s	Date: 15 APL 92
PART II - CNF Received	θγ
Customer Signature: Lague Denley	Date: 4/15/92
PART III - Disposition by Cus	tomer
Comments: LINBAR INDICATION TO BE FIABLED TO	DETERMINE IF IT IS A RELEVANT
INDICATION. FLAPPING TO BE MONITORED B	Y UT ThICKNESS MEASUREMENTS
BEFORE & AFTER, FLAPPING Shall BE LIMIT	•
MIL RAMOUAL OF METERIAL Thickness.	2" scheoule 160,343 486 lips
Customer Signature: Wagne Denlinge	Date: 4-18-92
PART IV - Reexamination	n
Comments:	
REEXAMINATION AFTER COSMETIC WELL	TREP KEVEALED NO
RECOLDABLE INDICATIONS.	
BETORE T: 455 AFTER T: .440	
Attachments: 1/0285	
Swall Signature: Michay 7. 1eans	Date: _29 APR 92
PART V - CNF Closed By	
Customer Signature: Justine Denlunge,	Date: 4/29/52



Project No. 17-4823	Site: SALEM 1	CNF Serial No. SAM 1-5
Examination Area: 4-5J-2	1/5 <i>C</i> -/4/ Proc	edure No. PSE-PT1
	PART1-SwRI Finding	
	") IN ACCORDANCE	I CODE ALLOWABLE WITH TABLE IWB-3514-2 HICKNESS (NOMINAL). 533
Attachments: DATA 1/0//3,	RESOLUTION 3/000	7
SwRI Signature: Mukey 7	Teems	Date: <u>23 Apr. 92</u>
	PART II - CNF Received By	
Customer Signature:	Derling	Date: 4/23/92
	PART III - Disposition by Custon	ner
	<u> </u>	PAR TABLE INB-35/4-2
1 / / .	•	SYSTEM BUCINGELING IS REQUEST
I ▲		AN FLANDING (SEAT 92-244)
BBLOW . 465 Customer Signature:	Deal	Do NOT REMOVE WELL The charge
7	PART IV - Reexamination	
Comments:	1 2-10	Oran and The
	N REVEACED NO A PREP. ON 4-5J-213	ECORDABLE INDICATIONS 50-14
AFTER FLAPPING	T.465	
AFTER FLAMPING	TO 4-55-2150-13 R	emoved by flappeng
21.1 =	1000	Date: 30 APR 92
SwRI Signature:	PART V - CNF Closed By	Date: <u>30 APK 92</u>
	Adl	Warks.
Customer Signature: SWRI Form NDTR-CNF-1, Rev. 2	- January	Date: 4/30/73



Project No. 17-4823 Site: SALEM / CNF Serial No. SAM 1-6
Examination Area: 6-PR-1103-12 Procedure No. PSE-PT1/0/0
PART I - SWRI Finding
Comments: PT EXAMINATION REVEALED 3 LINEAR INDICATIONS. # 1 IS 34" LONG WHICH EXCEEDS ALLOWARD LENGTH IN TARKE INB-3514-2. # 2 AND 3 ARE 18" AND 316" RESPECTIVELY THEY WERE EVALUATED TO PARA IWA-3400 AND TABLE IWB- 3514-2 TO BE CODE ALLOWABLE.
Attachments: DATA 110141, RESOLUTION 310008
SwRI Signature: White 7. Takes Date: 22 Apr 92
PART II - CNF Received By
Customer Signature: Wagne Dinling Date: 4/22/92
PART III - Disposition by Customer
Comments: All These Liver INDICATIONS TO BE FLAPPED TO DETERMINE IF They
ARE RELEMENT INDICATIONS. FLAPPING TO BE MONTERED WITH UT THICKINESS
OF MATERIAL Thicknes REMOVAL PREMITTED. This IS A 6" Schenole 160
Customer Signature: Lage Delige Charles Date: 4/23/92
PART IV - Reexamination
Comments: KEEXAMINATION AFTER FLAPPING REVEALED THAT INDICATION
I IS NOT CODE ALLOWARGE. INDICATIONS 2, 3, AND 4 ARE CODE
ALLOWABLE. SEE CNF SAM 1-6A
Attachments: Exam Dita- 110192 RESOLUTION- 310011
SwRI Signature: Mily 7 Teleman Date: 27 MR 92
PART V - CNF Closed By
Customer Signature: Lagra Danie: 4/27/92 SwRI Form NDTR-CNF-1, Rev. 2



Project No. 17-48	23 Sil	e: SALEM 1	CNF S	Serial No. SAM 1-6A
Examination Area:	,-PR-1/03-	/2 P	rocedure No. \angle	SE-PTI
		PART I - SwRI Finding		
				E INDICATION (#1)
ARE CODE ALLO		_	ZINEAR TA	DECATEDUS 2,3 É4
Attachments: EXAM	DATA 1/0192	RESOLUTION 3/00/	·	
SwRI Signature: Mu		a And American Commence of the		27 APR '92
		ART II - CNF Received I	Эу	
Customer Signature:	Wayne De	luce,	Date:	4/27/92
		III - Disposition by Cus		
Comments: PER A	SME TI IN	18-3514,3(b) 1 METHOD (UT) F	1983,583	BEAMINE
WITH THE VOI	UMATRICA	MATROD (UT) F	DR ACCEP	ANCE
Customer Signature:	1201 40	1.	Data	4/29/92
Customer Signature:		ART IV - Reexamination		112112
Comments: <u>UT</u>		NATION REVE		AT THE
I /	TTON #1			INEAR
. /	•	CODE ALLOW	UABLE.	SEE CUF
_ Sam 1-68				
Attachments: DATA	890052	RESOLUTIO	N 3/0070	
SwRI Signature:	Rebert Te	Pens	Date:	1 May 92
	Р	ART V - CNF Closed By	1	
Customer Signature:	Wagne De	nluges	Date:	5/1/92



Project No. <u>17- 4823</u>	Site: SALEM 1	CNF Serial No. SAM 1-6B
Examination Area: 6-PR-1103-	-/2 Procedur	re No. PSE - UT 31
	PART I - SWRI Finding	
Comments: EXAMINATEON NITH THE UT (VOLUME)	_	5
A REPORTABLE LINEAR SEE CNF SAM 1-6A	INDICATION WHICH IS	S CODE ALLOWABLE.
Attachments: DATA 890052	RESOLUTION S	3/0020
SWRI Signature: Mickey 7-	Elens	Date: / May 92
	PART II - CNF Received By	
Customer Signature:	luja	Date: 5/1/92
PI	ART III - Disposition by Customer	
Comments: DR # 5MD - 92 - 43	•	-
MORE THAN 0,050 MILS		
AFTER FLAPPING MONITOR	AMPLING with UT Th	ickness Extent PT
Customer Signature: Way	6tR.1105-11 4 6PR-1	104-11. RESCHEBELLE GPR-1103-12 1400 FOR EXEMINATION MARK GOTA Date: 5-5-92
Customer Cignature.	PART IV - Reexamination	_ Date
Comments: REEXAMINATION	AFTER FLAPPING REVEA	ALED NO RECORDABLE (21/8")
	UT METHODS. Actual	
PT OF WELDS 6PR-1	· · · · · ·	11 REVENED NO RECORDADA
INDICATIONS		7,20020
Attachments: Data: 1/0281(PT)	, 890060(47)	
SwRI Signature: Micky 7 To	ans	Date:
	PART V - CNF Closed By	
Customer Signature: Wayne	Denluge.	
SwRI Form NDTR-CNF-1, Rev. 2		



Project No. <u>17-4</u>	1823	Site: SALEM	c	NF Serial No.	JAM 1-60
Examination Area:	6-PR-11	03-12	Procedure No.	PSE-UT	31 t PT1
		PARTI-SWRIF	finding		
RECORDABLE	INDICAT	IATION AFTER TONS (= 1/8"). .700, AFTER I	INDICATION	SIZE IS	
Attachments: DATA	4 11028	(PT), 890060(UT)		
SwRI Signature:	Jeby 7	Team	D	ate:5_/	7/92
i de la companya di		PART II - CNF Rec	eived By		
Customer Signature:	Ways	Derlinge	, D	ate:	7/92
		PART III - Disposition	by Customer		
MONITOR	DO NOT	EXCEED, 600 ENTE UT AFTER RAM	Thickness	Thicket	28 15,650
Customer Signature:	Wayne	Denluga	D	ate: <u>5-8</u> -	92
		PART IV - Reexar	mination		
Comments: PT	_	NATION AFT	TER REMOVE	of of	INDICATION
BEFORE FU	HPPING 7	T = .650 AF	FLAPPI	NG T=	.629
Attachments:	1 - 1				
SwRI Signature:	July -	Tlems	Da	ate: <u>5/1</u>	2/92
		PART V - CNF CK	osed By		
Customer Signature: _ SwRI Form NDTR-CNF-1, Rev	Varge.	Denlinger	Da	ate: <u>5//2</u>	192
>***	. c U				



Project No. <u>17-4823</u>	Site: <u>SALEM</u>	<u>/ </u>	Serial No. Sam 1-7
Examination Area: 6-PR -/	105-1	Procedure No. $\overline{\mathcal{I}}$	3E-PT1/0/0
	PARTI-SWRIF		
Comments: PT EXAMINITION (3/16")			
OF SECTION XI 83.	A	777600	2377
Attachments: DATA 11014	O, RESOLUTION.	3/00/0	
SwRI Signature: Muskay 7	100m	Date	: 22 APR GZ
	PART II - CNF Rec	elved By	
Customer Signature:	4) enlugà	Date	: 4/22/52
	PART III - Disposition		ASME.
Comments: <u>ACCEPT AS</u> 1983 583	15 PER IW	B-35/4-2 OF	SECTION RI
	 		
Customer Signature:	Denling	Date	4/22/52
	PART IV - Reexan	nination	
Comments:			
Attachments:			
SwRI Signature:		Date	
Own Gynature.	PART V - CNF CIO		
Customer Signature:	Denha	Date:	4/2/102
SwRI Form NDTR-CNF-1, Rev. 2	Jan Je	Date.	-1/149



Project No. 17-4823	Site: SALEM 1	CNF Serial No. SAM 1-8
Examination Area: 1/2 - ST	-1/32 -40	Procedure No. PSE-PTI
	PART I - SWRI Find	Ing
		EALED / LINEAR
		HE ALLOW ABLE DIMENSIONS ON XI TABLE IWB 3514-2
NF THE ASING		7,4 222 347 2
Attachments: DATA 1 01	71, RESOLUTION	310012
SwRI Signature: Mickey	7 Tens	Date: 23 Am 92
	PART II - CNF Receive	ed By
Customer Signature:	Dealuge	Date: 4/24/92
	PART III - Disposition by (Customer
		O DETERMINE IF IT IS A RELEVAN
	· · · · · · · · · · · · · · · · · · ·	WITH UT BEFORE & AFTER
l		MUST BE , 246 OR CLAFTER
BEFORE FLAPPING		
Customer Signature: Wayn	Denlinge / 1/2	G-29-92 Date: 4/25/93
	PARTIV - Reexamins	tion
Comments:		
REEXAMINATION A	AFTER COSMETEL WEL	D PREP REVEALED NO RECORDANCE
INDICATIONS:	CHA T- 70C	
BEFOLE T = .810 A	FIEL 1 2 1793	
Attachments: //0087		·
SwRI Signature: Mucky 7	Teens	Date: 29 APR 92
, V	PART V - CNF Closed	1 В у
Customer Signature:	e Genlingen	Date: 4/29/92
SwRI Form NDTR-CNF-1, Rev. 2		



Project No. 17-4823	Site: SALEM	1	CNF Serial No. 9	SAM 1-9
Examination Area: 6-SJ-	1/4/-1	_ Procedure N	o. PSE-f	7/
	PART I - SWRI FIN	gnit		
Comments: PT EXAMI. WHICH EXCEEDS	_			
	4 1 1/224	0		
Attachments: DATTA // 025	8 : 1/0286	RES	plutton 31	0014
SwRI Signature: Nukay 7	Tlous		Date: <u>294</u>	R 92
	PART II - CNF Receiv	ed By		
Customer Signature:	Jenlinje,		Date: 4/29,	192
PA	RT III - Disposition by	Customer		
Comments: INDICATION TO B	& FLAPPED TO	DETERM	NA IF IT	15 A Relevai
INDICATION FLAPPING		, -		r
FLAPPINE IS LIMITED TO	/\			
MATERIAL Thickness, W	ALL THICKNES	5 Most	BB .643	OR GREATER
Customer Signature: Leger L	Jenline Hullet		Date: 4/2	9/92
	PART IV - Reexamin	ation		77-
Comments: PT REEXAMEN	TION AFTER	COSMETTO	WELP PA	EPARATTONI
REVEALED NO RECORD				
BEFORE FLAGDING T :	_			.,
AFTER FLAPPING T =	·793			
Attachments: DATA 110241				
SwRI Signature: Muken 7 Te	ens.		Date: / May	92
Switt Signature. The same of the	PART V - CNF Close		Date	
Customer Signature: Wage	enlunga	_	Date: 5/2/	72_
SwRI Form NDTR-CNF-1, Rev. 2	0			

S	
	1

SwRI Form NDTR-CNF-1, Rev. 2

Project No. <u>17-482</u>	3 Site: <u>SALEM 1</u>	CNF Serial No. 54M 1-10
Examination Area: 34-7	MS-2131-1PL-19 Proce	edure No. PSE - MT I
	PART I - SWRI Finding	
Comments: MT E	EXAMINATION REVEALE. L= 14"	D / CODE ALLUWABLE
	20053 RESOLUTION	310013
SwRI Signature:	by 7 Teams	Date: <u>5/7/92</u>
	PART II - CNF Received By	
Customer Signature: Wag	yne Denlinge	Date: _5/7/92
$\dot{\ell}$	PART III - Disposition by Custom	
ASME XI 198:	INDICATION IS ACCEPTA 3 S83 CC FNTERRAL & 35/6.1 FNB 35/4.2 IN	tachment for PIPING
Customer Signature:	epe Deluga	Date: _5/14/92
/	PART IV - Reexamination	
Comments:	N/A	
Attachments:		
SwRI Signature:		Date:
	PART V - CNF Closed By	
Customer Signature:	Ceps Derling	Date: 5/12/92



Project No. 17- 4	823_ Site:	SALEM 1	CN	F Serial No. <u>SAM 1-11</u>
Examination Area:	34-115-2121	- 2	Procedure No	PSE-MTI
	PA	AT I - SWRI Find!	ng	
	T EXAMINA (CEEDS CODE			ONE INDICATION USIONS.
Attachments: D477	7 120058	RESOLUTION	3/003/	
SwRI Signature:	iely 7. Teems		Dat	e: <u>5/13/92</u>
nadas North State Carte	PART	FII - CNF Receive	d By	
Customer Signature: _	Wagne Dink	ng,	Dat	e: <u>5//3/9</u>
	PART III	Disposition by C	customer	
A RELEVANT	INDICATION.	FLAPPING	TO BE M	MINE IF IT IS ONTORED WITH TO NO MARE THAN
I	emoval of		4	_
Customer Signature: _	Wayne Dens	lain	Dat	e: 5//3/52
	PAR	TIV - Reexamina	tion	12.00
	XAMINATION A	A		
	DIMENSIONS.	l = 1/10	WHICH	EXCEEDS CODE
T BE FOR	E FLAPOTAL a			
TAPTO	2 FLADOURS .	0.310	SEE CN	F 5AM 1-11A
Attachments: <u>D47</u>	4 120004			
SwRI Signature:	Jukey 7. T	eems	Dat	e: 5/14/92
	PAR	TV - CNF Closed	Ву	
Customer Signature: _	Dagre Dealing	<u> </u>	Dat	e: <u>5/14/92</u>
SwRI Form NDTR-CNF-1, Rev.	2 //			



Project No. 17-4823 Site: SALEM 1 CNF Serial No. SAM 1-114
Examination Area: 34-MS-2121-2 Procedure No. PSE-MT1
PART I - SWRI Finding
Comments: MT EXAMENATION AFFEC FLAPPING REVEALED
THE INDICATION RECORDED ON DATA RECORD 120058 TO BE 1416" WHICH EXCEEDS CODE ALLOWABLE DIMINISTONS.
SEE CNF SAM 1-11
Dame 1700 at an
Attachments: DATA 120004 RES
SwRI Signature: Micky 7. Teem Date: 5/1492
PART II - CNF Received By
Customer Signature: Wagne Denleyer Date: 5/14/92
PART III - Disposition by Customer
Comments: A DEFICIENCY REPORT has BEEN WRITTEN & SUBATTED
TO BAGINERRIUG SWRI TO PERFORMEN The Following: (1) DETERMINE
Laugth of Death of INDICATION With UT. (2) DO A SCOTCH TARE TRANSPORT
OF THE MT INDICATION (3) DETERMINED MARTIN OF GROUND MARA CONTAINING THE
INDICATION (4) USE AMMONIUM PLASULFATE (5th S-SP. ZZ-0107(0)) DETERMINE LICATION OF INDICATION OF WALLS INCLUDING 3 S
Customer Signature: Washe Holing Date: 5-14-92
PART IV - Reexamination
Comments: SWRI PERFORMED THE FOLIARENG REMANDANTION SPERMENATIONS: (1) UTSIETAG-
1=1.375, 9=.45(2) TAPE TAMBREQ-SEE 120004(3) BEST EFFORT DETERMENTED OF DEPTH
OF GROUND ARBA - SEE ATTACHED SKETCH (. 285) (4) USGO MANONSUM PROSULTATE TO DETECTIONS
INDICATION RELATIVE TO WELD, VANUE, PLAS - SEE AFFINITED SKETCH (5) PERFORMED MT EXAMS
ON 5 ADDITIONAL WELDS - 34-MS-2111-2, 2131-2, 2141-2, 14BF-2121-1, 14BF-2121-2 ALL NO RELX ARLE ENDICATIONS. DATA DECRESS:
ARCE INOTCATIONS. DATA RECEROS: Attachments: (20004, 120058, 890114; RESOLUTION REGIONS: 310031, 310041; SKETCH OF IND. AKEA.
SwRI Signature: Misky 7 Trans Date: 5/17/42
PART V - CNF Closed By
Customer Signature: Washe Line Date: 5/17/92
SwRI Form NDTR-CNF-1, Rev. 2



Project No. 17-4823 Site: SALEM / CNF Serial No. SAM /	<u>'-118</u>
Examination Area: 34-MS-2121-2 Procedure No. PSE - MT1	
PART I - SWRI FINDING	
Comments: AFTER PERFORMING REEXAMINATION/DESPOSITION REQUEST BY PSEGG PERSONNEL (SEE CNF SAM 1-11A) MT INDICATION EXC	
CODE ALLOWABLE DEMINISTENS. L=1.375, a=.45.	
Attachments: DATA 840114, RES 310041, SKETTÄ OF TAD AREA	
SwRI Signature: Mukey 7. Telmo Date: 5/17/92	
PART II - CNF Received By	
Customer Signature: Wagne Anling Date: 5/17/92	
PART III - Disposition by Customer	
Comments: AS PER PISPOSITION TO 921009017 (DR=SMD-92-546)	
1. UT AREA FOR INITIAL THICKNESS. 7. REMOVE INDICATION BY MECHANICAL MI	
NOT TO EXCEED, 400 THOUSANDER, 3 MT TO ENSURE DEFECT REMOVAL 4 PERFOR	_
Customer Signature: Date: 5-19-92	
PART IV - Reexamination	
Comments: REEXAMINATION (MT) AFTER REMOUND OF INDICATION	
REVEALED NO RECONDABLE INDICATION.	
BEFORE T = 2.310 AFTERT = 2.293	
Attachments: DMTA CEWIS 120016	
SwRI Signature: Mukey 7. Team Date: 5/19/92	
PART V - CNF Closed By	
Customer Signature: 16 Date: 5/19/92	
O DIS NOTE ONLY	



Project No. 17-4823	Site: SACEM 1	CNF Serial No. SAM	1-12
Examination Area: 34-MS-	2141-2	Procedure No. PSE-MT1	
	PART I - SWRI Find	ilng	
		DED ON DATA RECORD I	
1		HE INDICATION IS LOCAL	
ON THE ADJACENT VI	4LVE BODY (14	-MS-167). INDICATION	
IS 3/16" IN LENGTH		<u></u>	
Attachments: DATA RECOEDS	120013 AND 120	074	
SwRI Signature: Mikey 77	<u> </u>	Date: _5/16/92	
	PART II - CNF Receive	ed By	
Customer Signature: Wagne L	Tenling,	Date: 5/16/92	
,	ART (it - Disposition by	Customer	
Comments: The INDICATION	15 LOCATED OUT	SINA The ASMEXI COL	04
		VUCLER CLASS II VALIN	
		NC-2570 MAS NO AM	
OR ACCEPTANCE STANDARD			
SURFACES A SUSTEM ESSE FOR ENCINEERING ENGLIPTION Customer Signature: Wage	WELLING ASSISTANT N & PISPOSITION O	NCS TRANSMITTAL FAS BE OF INDICATION Date: 5/17/92	sen Wh
. 7	PART IV - Reexamina		
Comments: REEX AMI NATTO	N AFTER MECH	INICAL REMOVAL OF , 20	5
REVENCED THAT THE I	NOIGHTION STELL	EXTS/S.	
T BEFORE = 2.552,	TAFFER = 2.3	347	
EXAM PERFORD AT ST	to REQUEST PER	DESPOSITION TO 92100901	7
SEAT 92-322		·	
Attachments: DATA RECORD 130	2015		
SwRI Signature: Muckey 7. 7	lems	Date: <u>5/19/92</u>	
	PART Y - CNF Closed	d By	11
Customer Signature:	The state of the s	Date: <u>5//3/92</u>	
SWRI Form NDTR-CNF-1, Rev. 2			 _

DISPOSITION TO 921009017 SEAT 92-322

14MS167 LINEAR INDICATION IN AREA OF PIPE TO VALVE WELD

THIS DISPOSITION WILL ADDRESS THE REPAIR OF 14MS167 VALVE. THE VALVES ARE PART OF THE PSEG PIPE SPEC. 1S12A, WHICH IS SAFETY RELATED, SEISMIC I NUCLEAR II AND QA REQUIRED. THE MAINT. REQUIRED TO REMOVE THIS INDICATION DOES NOT REQUIRE A CODE JOB PACKAGE.

- 1. LOCATE AND CLEARLY DEFINE THE AREA TO BE WORKED.
- 2. UT AREA FOR INITIAL WALL THICKNESS
- 3 USE MECHANICAL MEANS TO REMOVE INDICATION. DO NOT REMOVE MORE THAN 0.400 WITH OUT SYSTEM ENG APPROVAL.
- 4 NDE AS REQUIRED TO INSURE THAT THE INDICATION HAS BEEN REMOVED.
- 5 BY USING MECHANICAL MEANS CONTOUR THE AREA TO A 3/1 SLOPE.
- 6 FINAL NDE REQUIRED AFTER ALL MECHANICAL WORK HAS BEEN COMPLETED TO INSURE THAT THE INDICATION HAS BEEN REMOVED AND THE SURROUNDING AREA IS FREE OF DEFECTS.
- 7 FORWARD AS FOUND AND FINAL WALL THICKNESS TO SYSTEM ENG FOR DISPOSITION OF THE DR.

TESTING

- 1. PERFORM A MT OR PT EXAMS AFTER THE REMOVAL OF INDICATION IN ACCORDANCE WITH ANSI B31.7.
- 2. PERFORM A UT FOR AS FOUND AND AS LEFT WALL THICKNESS IN THE AREA OF THE INDICATION. ACCORDANCE WITH ANSI B31.7.

20Mm 3/18/92

Index of NIS-2 and NR-1 Forms

I. NIS-2 Forms

Component	Brief Description				
1AF128	Replaced spring washer, spring and nozzle				
11MS15	Machined nozzle				
11SJ39	Replaced disk insert and spindle assembly				
1SJ67	Replaced nozzle, disk and bellows				

II. NR-1 Forms

	•
Code Job #	Brief Description
P90-034	Replace spools 1099XA and 100X-A to accommodate new
D00 006	transmitters
P90-036	Addition of vent valves to RHR system
P90-039	Add new pipe supports to RHR system
P90-212	Replaced studs on valve 1SJ5
P90-313	Replaced 11SJ48 valve and bolting in kind
P90-316	Replaced 12CS10 valve, Mark # FA-17 with Mark # FA-131
P90-338	Installed new bonnet, study and nuts in valve 11CS36
P90-339	Installed new bonnet, studs and nuts in valve 12CS36
P91-067	Replaced 11 and 12 FCU penetration piping with piping
	of new design and material
P91-068	Replaced 11 and 12 FCU penetration piping hangers and
	supports to accommodate new design
P91-071	Replaced 13, 14 and 15 FCU penetration piping with
	piping of new design and material
P91-072	Replaced 13, 14 and 15 FCU penetration piping hangers
	and supports to accommodate new design
P92-010	Replaced valve 11GB3 with new design and modified
	associated supports
P92-011	Replaced valve 12GB3 with new design
P92-012 '	Replaced valve 13GB3 with new design and modified
	associated supports
P92-013	Replaced valve 14GB3 with new design
S91-074	Replaced snubber 1C-CVC-SN901, S/N 321 with S/N 26130
S91-075	Replaced snubber 1S-14FW-SN013B, S/N 476 with S/N 30359
S91-076	Replaced snubber 1S-13FW-SN015B, S/N 389 with S/N 26131
S91-084	Replaced spool piece elbow 1MS-4037B in kind
S91-111	Replaced bonnet studs and nuts on valve 1CV284
S91-122	Repaired pitting on # 11 Steam Generator secondary
	handhole by machining
S91-167	Performed weld repair to pipe spool RD-1-SW-259
S91-238	Replaced bolting in flow orifice 1S12A
S91-256	Replaced bolting on valve 1CV7
S91-265	Replaced # 11 Boric Acid Transfer Pump mechanical seal
S91-280	Replaced # 12 Boric Acid Transfer Pump mechanical seal /

	S91-287	Weld repaired 15SW58 valve body and replaced flange bolting
	S91-306	Replaced cage, plug and stem assembly on valve 1PS1
	S92-097	Performed weld repair on 15SW72 valve body
	S92-155	Replaced (8) bonnet studs and nuts and (16) flange nuts and (8) studs on valve 1DR29
	S92-168	Performed weld repair of airlock personnel hatch hinge
	S92-179	Replaced bolting on valve 1CV171
	S92-188	Replaced snubber # 1A-SI-SN100A, S/N 450 with S/N 25872
	S92-190	Replaced snubber # 1S14-FWSN-15B, S/N 488 with S/N 27911
	S92-191	Replaced snubber # 1S11-FWSN-12B, S/N 440 with S/N 25893
	S92-192	Replaced snubber # 1S-11FW-SN012A, S/N 389 with S/N 25856
	S92-193	Replaced snubber # 1C-PR-SN007, S/N 623 with S/N 17676
	S92-200	Replaced stem and plug assembly on valve 12MS171
	S92-202	Performed weld repair on 12SW72 valve body
	S92-203	Performed weld repair on 12SW58 valve body and replaced valve bolting
	S92-215	Replaced disk in valve 1CV52
	S92-216	Replaced plug and stem assembly in valve 13GB4
	S92-218	Replaced plug and seat in kind in valve 11GB4
	S92-226	Replaced flanges and bolting in orifice 13MS200
	S92-227	Replaced bolting, plug and stem assembly in valve 14MS169. Hanger removed and reinstalled to facilitate
		maintenance
,	S92-228	Performed weld repair to valve 13SW58
•	S92-229	Performed weld repair on valve 13SW72
	S92-232	Replaced plug and stem assembly on valve 1PS3
-	S92-235	Rewelded valve canopy after maintenance on valve 11SJ144
	S92-236	Rewelded valve canopy after maintenance on valve 14SJ17
	S92-241	Replaced bolting on valve 1SJ3
	S92-246	Rewelded valve canopy after inspection on valve 14SJ139
	S92-247	Replaced valve canopy by welding on valve 12SJ144
	S92-254	Replaced bolting on valve 11SJ34
	S92-256	Replaced bolting on valve 1CV7
•	S92-264	Replaced helicoil in bolthole # 1 of # 11 Steam Generator
	S92-269	Replaced bolting in valve 11SJ55
	S92-270	Replaced primary manway bolting on # 14 Steam Generator hot leg
	S92-272	Replaced bolting and seal plate on valve 13SJ56
	S92-280	Replaced valve 14SJ144 with valve S/N CD-569
	S92-285	Replaced pipe clamp on support # 1C-PRH-179 due to corrosion
	S92-291	Replaced stem assembly and bolting on valve 1PR6
	S92-296	Performed weld repair on hanger 1C-CVCS-587 which was removed to facilitate maintenance
	S92-297	Replaced plug and stem assembly on valve 1CV75
	S92-300	Replaced rear bracket by welding on snubber 1C-PRSN-007
		· · · · · · · · · · · · · · · · · · ·
		·
	·	·

S92-301	Performed weld repair on seat and body and replaced bolting on valve 11BF22
S92-302	Performed weld repair on seat and body and replaced bolting on valve 12BF22
S92-303	Performed weld repair to body and seat on valve 13BF22
S92-304	Performed weld repair on seat and body and replaced bolting on valve 14BF22
S92-309	Replaced plug and stem assembly on valve 1CV3
S92-312	Replaced mechanical seal on 1SJE3 Safety Injection Pump
S92-313	Welded in new seat, replaced disk, valve bolting and flange bolting on valve 1FP148
S92-316	Performed weld repair to pipe support and replaced pipe
	guide on support 1C-CVCG-232
S92-317	Performed weld repair on flange face of 1SJE3 - # 12 Safety Injection Pump
goo 210	
S92-318	Replaced heat exchanger bolting with upgraded material on 1RHE3 heat exchanger
S92-325	Replaced bonnet and bolting on valve 1PS28
S92-329	Replaced cage assembly and performed weld repair on plug of valve 1PR2
S92-333	Performed weld repair to pipe spool between 1CS6 and
<i>572 333</i>	11CS44 valves
S92-335	Repaired welds on elbow spool 1CVC-15 that was removed
	to facilitate maintenance
S92-339	Weld 7/8" fillet weld in lieu of existing threads on
	yoke-bonnet for valve 14SJ54
S92-340	Replaced stem and wedge and enlarge wedge guides by
	machining on valve 1PR6
S92-344	Machined rupture disk seating surface on 1RCE11 -
	Pressurizer Relief Tank
S92-350	Replaced bolting on valve 12SW58
S92-352	Performed weld repair to reactor instrument tubing -
	6522XD
S92-360	Replaced plug, stem assembly and bonnet on valve 22GB4
S92-362	Replaced plug and stem assembly and rewelded leak-off
-	bore which was cut out to facilitate maintenance on
	valve 1CV55

III. Vendor NR-1 Forms

Work Order Brief Description

920627062	Repair #	11	Steam	Generator	nozzle	and	replace	piping
920627064	Repair #	12	Steam	Generator	nozzle	and	replace	piping
920627066	Repair #	13	Steam	Generator	nozzle	and	replace	piping
920627067	Repair #	14.	Steam	Generator	nozzle	and	replace	piping

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

. Owner Public	Service Elec	tric & Gas	Co.	Date 9-23-9	2	· · · · · · · · · · · · · · · · · · ·	
Foot of But	tonwood Rd.,	Hancocks B	ridge,NJ	Sheet 1	of1		
				· ·			
Plant Salem Nu	on	Unit 1			-		
Foot of Butt	onwood Rd.,H	ancocks Br	idge,NJ	P1-406255 Repair Orga	nization P	.O. No., Job No.,	etc.
Work Performed by	Crane-Aloyc			Type Code Symbol		IR VR	
	v	Name		Authorization No.		3 26	
104 N. Chic	cago St., Jol Address	iet, IL 60	431	Expiration Date	Feb. 17	7, 1994 Ju	11y 2, 1
Identification of Sy	stemSafety	Injection					·- · · · · ·
Identification of Co	omponents Repaired o	or Replaced and F	Replacement Cor	mponents		· ·	 1
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)
11sJ39	Crosby	51341-3	N/A	N/A	1987	Repaired	No
					-	-	
			-		 		
	-						
						,	
				<u> </u>	ļ	-	<u>.</u>
Description of Worl	k Replaced	<u>disk</u> insert	t and spin	dle assembly	<u>'• </u>	 	
Tests Conducted:	Hydrostatic X Pr		ominal Operating Test Temp. <u>A</u>		,		
	ntal sheets in form or rough 6 on this repor						

FORM NIS-2 (Back)

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 <u>Repair</u> conforms to the rules of t ASME Code, Section XI.
Type Code Symbol StampNR VR
Certificate of Authorization No. 63 262 Expiration Date 2/17/94 7/2/93
Signed Shelif. Date 10-6 , 19 9 2 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 S
or Province of New Jersey and employed by Arkwright Mutual Insurance Co.
in this Owner's Report during the period. June 1990 to April 1992, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
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
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed by the shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
inspection. Factory Mutual System
Inspector's Signature Commissions National Board, State, Province, and Endorsement
10-8 97
Date19.2

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

. Owner <u>Public</u>	Name	9		Date 9-23-92					
Foot of Bu	ttonwood Rd., Address	Hancocks B	<u>ridge,</u> NJ	Sheet 1	of1_				
Plant <u>Salem N</u>	uclear Genera Name	ating Statio	on ·	Unit1					
Foot of But	tonwood Rd., I Address	Hancocks Br:	idge,NJ	P1-406255 Repair Orga	inization P	.O. No., Job No.,	etc.		
Work Performed by	Crane-Aloyo	CO, Inc. Name		Type Code Symbol Authorization No.	•				
104 N. Chi	cago St., Jo Address	liet, IL 60	431	Expiration Date]					
Identification of Sy	stem Safety	Injection							
	tion of Section XI Ui	·	·		ldenda	· · · · · · · · · · · · · · · · · · ·			
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)		
LSJ167	Crosby	51341-M3	N/A	N/A	1988	Repaired	No		
	-								
	k Replaced r						L		
Tests Conducted:	Hydrostatic X P Other Pressure		minal Operating Test Temp. <u>A</u>	_					
	ntal sheets in form or rough 6 on this repo								

FORM NIS-2 (Back)

	Applicat	ole Manufacture	er's Data Reports to be attached
			<u> </u>
	CEB.	TIEICATE OE	COMPLIANCE
We certify that the stater ASME Code, Section XI.			rrect and this <u>Repair</u> conforms to the rules of the repair or replacement
Type Code Symbol Stamp	NR	VR	
Certificate of Authorization No	63	262	Expiration Date <u>2/17/94</u> 7/2/93
Signed Shulish. Owner or Owner's Design	se, Title		Date / 0 ~ 6 , 19 9 2
	ommission issue	d by the Nation	SERVICE INSPECTION nal Board of Boiler and Pressure Vessel Inspectors and the State
MA	and empl	oyed by AIK	wright Mutual Insurance Coof
in this Owner's Report during the	pelief, the Owne	r has performe	to April 1992 , and state that d examinations and taken corrective measures described in this
By signing this-certificate neith	er the Inspector	nor his emplo	yer makes any warranty, expressed or implied, concerning the Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for an inspection.	ny personal injur	y or property o	lamage or a loss of any kind arising from or connected with this Factory Mutual System
Inspector's Signal	, Carl	Commis	sions National Board, State, Province, and Endorsements
10-6	41		

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

. Owner Public	Service Elec	tric & Gas	Co.	Date	9-23-9	2					
Foot of But	tonwood Rd.,	Hancocks Br	ridge,NJ	Sheet	1 ,	, 1					
	Address					Sheet 1 of 1					
Plant Salem Nu	clear Genera	ting Statio	on	Unit	_1						
Doot of Doot	Name	annaska Ded	des NT	D1 40	COFF						
Foot of Butt	conwood Rd.,H	ancocks Bri	Lage, NJ	P1-40		nization P	.O. No., Job No.,	etc.			
Work Porformed by	, Crane-Aloyc	o, Inc.					IR VR				
WORK Ferrormed by		Name			ation No						
104 N. Chic	cago St., Jol Address	iet, IL 604	431	Expiration	n DateF	eb. 17	, 1994 Ju	ly 2, 19			
Identification of Sy	stem Main	Steam		_							
	Dra ASM estruction Code ASM tion of Section XI Uti components Repaired o				S83 Ad	ddenda,_ ldenda	-1:9:7:0	_Code Case			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	_	ther fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)			
11MS15	Crosby	N55100-03- 0045	- N/A	N/	A	1989	Repaired	Yes			
	•						-				
Description of Worl	Machined Hydrostatic Pr Other X Pressure Steam	neumatic No									
	ntal sheets in form of ough 6 on this repor of this form.										

FORM NIS-2 (Back)

RemarksApplicable Mar	nufacturer's Data Reports to be attached
· Applicable Mai	idiactors a Data reports to be attached
<u> </u>	
	
CERTIFICA	ATE OF COMPLIANCE
We certify that the statements made in the report ASME Code, Section XI.	rt are correct and this <u>Repair</u> conforms to the rules of the repair or replacement
Type Code Symbol StampNR V	·
Гуре Code Symbol StampNRV	<u>R</u>
Sertificate of Authorization No. 63 2	62 Expiration Date 2/17/94 7/2/93
A A A	Expiration Date
Signed Shelinh	Date 16-6 19-92
Owner or Owner's Designee, Title	
CERTIFICATE	OF INSERVICE INSPECTION
, the undersigned, holding a valid commission issued by th	ne National Board of Boiler and Pressure Vessel Inspectors and the Star
	y_Arkwright Mutual Insurance Co.
MA	have inspected the components describe
n this Owner's Report during the period. June 19	990 to April 1992 , and state the
	performed examinations and taken corrective measures described in the
Owner's Report in accordance with the requirements of the	
	is employer makes any warranty, expressed or implied, concerning the
	Owner's Report. Furthermore, neither the Inspector nor his employ
	operty damage or a loss of any kind arising from or connected with the
nspection.	Factory Mutual System
	ractory Mutual System
James E. Cool	Commissions N5373
Inspector's Signature	National Board, State, Province, and Endorsements
1	
Date /0-8 194	

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

Owner <u>Public</u>	Service Elec	tric & Gas	Co.	Date 9-23-9	2					
Foot of Bu	ttonwood Rd.		ridae NJ	Sheet1of						
10 100 Bu	Address	rrade, No	Sheet of							
Plant <u>Salem N</u>	uclear Genera Name	ting Statio	on	Unit <u>1</u>						
Foot of But	tonwood Rd., I Address	Mancocks Br	idge,NJ	P1~406255 Repair Orga	nization P	.O. No., Job No.,	etc.			
Work Performed b	y <u>Crane-Aloy</u> o	CO, Inc. Name	-	Type Code Symbol Authorization No.	•					
104 N. Chi	cago St., Jo Address	iet, IL 60	431	Expiration Date						
Identification of S	ystem <u>Auxilla</u>	ry Feedwat	er							
Identification of C	Components Repaired	or Replaced and R	leplacement Con	nponents			ASME			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)			
					a					
laf128	Crosby	N56711- 00-0001	N/A	N/A	1974	Repaired	No			
· · · · · · · · · · · · · · · · · · ·										
	1			 						
		· · · · · · · · · · · · · · · · · · ·								
					<u> </u>					
Description of Wor	rk Renlaced	enring was	her, enrir	ng and nozzle	s .					
		_		_		·				
	Hydrostatic P	neumatic 🔼 No 75	minal Operating	Pressure Ambient F						
Tests Conducted:	Other Pressure	psi	rest remp							
	Other Pressure									

FORM NIS-2 (Back)

	Applic	able Manufacture	's Data Reports to be attached	
	-			
		<u></u>		
	CEI	RTIFICATE OF C	OMPLIANCE	·
We certify that the stater ASME Code, Section XI.	nents made in 1	the report are cor	ect and this <u>Repair</u> conform repair or replacement	ns to the rules of the
Type Code Symbol Stamp	NR	VR	74	
. Certificate of Authorization No	63	262	Expiration Date <u>2/17/94</u>	7/2/93
Signed Sheelish' Owner or Owner's Design	lee, Title		Date 16 - 6	, 19 <i>_9</i>
·	CERTI	FICATE OF INSI	ERVICE INSPECTION	
			al Board of Boiler and Pressure Vessel In right Mutual Insurance have inspected the o	Co(
n this Owner's Report during the	periodJ	une 1990	to April 1992	
, =	•	•	examinations and taken corrective mea	sures described in th
Owner's Report in accordance with	•		code, Section XI. er makes any warranty, expressed or in	onlied concerning th
			Report. Furthermore, neither the Inspe	
shall be liable in any manner for a	ny personal inju	ury or property da	mage or a loss of any kind arising from o	
inspection.			Factory Mutual Sys	stem
James S. C.	sh.	Commiss	N5373	
Inspector's Sign	ature	COITHINSS	National Board, State, Province,	and Endorsements
_	_			

FORM NR-1 REPORT OF REPAIR - MODIFICATION - OR INSTALLATION OF REPLACEMENT(S) - TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJP # P-90-03	34
(name) irrepair organization's P.O. no., job no., etc.)
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)	
2. Owner Public Service Electric & Gas Company	
(name)	
Poot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)	
3. Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
4. Identification of system Reactor Coolant Nuclear Class II	
5. a: Identification of component repaired, modified or replaced Spools 1099XA and 100X-A Replaced	
b: Name of manufacturer PSE&G c: Identifying nos. N/A N/A N/A N/A 1976	
(mfr.'s serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year built)	
6. Applicable section(s) XI of ASME Code, 19 83 edition 1983 addenda Summer Code Case N/A	
7. Design responsibilities PSE&G	
8. Tests concucted: hydrostatic * pneumatic : design pressure : pressure 128 psi. 9. Description of work Replaced pressurizer relief tank level transmitter spools to	
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)	
accomodate new transmitters.	
Work Order #900727124 DCP 1EO-1003 Package 1	
10. Remarks: Work Order #900727124 DCP 1EO-1003 Package 1	
Original Construction Code No Code Cases	
ANSI B31.7 1969	
Construction Code Code Cases Manufacturer Code Symbol Stamp	
Construction Code Code Cases Manufacturer Code Symbol Stamp ANSI B31.7 1969 N/A PSE&G N/A	
System Inservice Test performed at NOP	
· · · · · · · · · · · · · · · · · · ·	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and that all design, material and workmanship on this	
conforms to the applicable section of the ASME Code.	acement)
Certificate of Authorization no. 36 to use the "NR" stamp expires October 3 1991 PSE&G Nuclear Department Manager-Station OA	91
Signed	
CERTIFICATE OF INSPECTION	
I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate on New Jersey Arkwright Mutual Ins. Co.	f com-
petency issued by the state or province of Norwood, MA and employed by AFRWTIGHT MUTUAL INS. CO.	
of have inspected the repair, modification or replacement described in this	•
on 3-29 1997 and state that to the best of my knowledge and belief, this repair, modification or replacement has been m	
constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current e	
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modifi- or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal	,
or replacement described in this report. Furthermore, neither the inspection for this employer shall be liable in any mainter for any personal or property damage or loss of any kind-grising from or connected with this inspection. Factory Mutual System	ı e ijury
Date 7-18 1991 Signed Joseph E. Commissions NJ 373	
	•

FORM NR-1 REPORT OF REPAIR TO MODIFICATION TO OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

•	Dublic Corvice Floatric (Che Company - Nuclear Book - GID & D. Co. Co.
_1.	Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJP # P-90-036
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	FOOT OF BUTTONWOOD ROAD, MAINCOCKS BITUGE, NO OBOSE
	Public Service Electric & Gas Company
2.	Owner Fubile Service Electric & Gas company
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	(address)
_	Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit # 1
3.	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	Identification of system Residual Heat Removal Nuclear Class II
	a: Identification of component repaired, modified or replaced See Continuation Sheet
5.	Con Continuation Chart
	See Continuation Shoot
	c: Identifying nos. See Conclination Silvet (year built) (year built)
	Applicable section(s) XI of ASME Code, 19 83 edition 1983 addenda Summer Code Case N/A
-	Applicable section(s) A1 of ASME Code, 19 63 edition 1963 addenda Summer Code Case N/A Design responsibilities PSE&G
	Tests conducted: hydrostatic * pneumatic = design pressure = pressure 585 psi.
_	Description of work Addition of vent valves to RHR system.
9.	(use of additional sheetist or sketch(es) is acceptable if properly identified)
40	Remarks: Work Order #891023121
10.	Work Order #900709139
_	DCP # 1sc-2259
_	
_	
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_	
	CERTIFICATE OF COMPLIANCE
w	e certify that the statements made in this report are correct and that all design, material and workmanship on thisModification
1	informs to the applicable section of the ASME Code (repair, modification or replacement,
i	ertificate of Authorization no. 36 to use the "NR" stamp expires October 3 19 91
l	PSE&G Nuclear Department 140/10 - Manager-Station OA -// G/
5	gned
	CERTIFICATE OF INSPECTION
١.	
, ,	the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of com- New Jersey and employed by Arkwright Mutual Ins. Co.
μ	NOTWOOD MA
_	ofhave inspected the repair, modification or replacement described in this report
Or	1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or
α	onstructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition.
	signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification
	eplacement described in this 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. Factory Mutual System
ח	ate 7-18 1991 Signed 4 one 8. Commissions NS 373
	Authorized inspector) Nat1 Bd. no. (including endorsements) state or province and number)

FORM NR-1 REPORT OF REPAIR \equiv MODIFICATION \equiv OR INSTALLATION OF REPLACEMENT(S) $\stackrel{\bullet}{\simeq}$ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1	Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJP # P-90-039
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	(address)
2.	Owner Public Service Electric & Gas Company
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	(address)
3.	Name address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
4.	Identification of system Residual Heat Removal
5.	a: Identification of component repaired, modified or replaced <u>C-S1-P-RHG-272</u> , 273
	b: Name of manufacturer PSE&G S: Identifying nos N/A N/A N/A N/A 1991
	c: Identifying nos. N/A N/A N/A N/A 1991 (mfr s serial no.) (Nat'l, Bd. no.) (jurisdictional no.) (other) (year built)
6.	Applicable section(s) XI of ASME Code, 1983 edition 1983 addenda Summer Code Case N/A
	Design responsibilities PSE&G
	. Tests conducted; hydrostaticpneumaticdesign pressurepressure N/A_psi.
9.	Description of work Add new pipe supports to RHR system.
	(use of additional sheetis) or sketch(es) is acceptable if properly identified)
	· · · · · · · · · · · · · · · · · · ·
10	Remarks: Work Order #891023121
_	Work Order #900709139
_	DCP #1SC-2259
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, 	CERTIFICATE OF COMPLIANCE
14	/e certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement
	onforms to the applicable section of the ASME Code.
ļ .	ertificate of Authorization no. 36 to use the "NR" stamp expires October 3 1991
	PSEAG Nuclear Department Manager-Station ON 7
5	gned
	CERTIFICATE OF INSPECTION
	the undersisped holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of com-
',	the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of cometency issued by the state or province of
۲	etency issued by the state or province of
_	n
0	·
	constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition.
_	y signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification
	r replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury
0	r property damage or loss of any kind arising from or connected with this inspection. Factory Mutual System
D	ate
L	Authorized inspector) Nar1 Bd. no. (including endorsements) state or province and number)

FORM NR-" REPORT OF REPAIR _ MODIFICATION _ OR INSTALLATION UP HEPLACEMENT(S) _ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJP \$ S-90-ZIZ
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
*900,623
2 Owner Public Service Electric & Gas Company
Foot cf Buttonwood Road, Hancocks Bridge, MJ 08038
acoress
Name accress and identification of nuclear power plant Salem Suclear Generating Station Unit # 1 Foot of Buttonwood Road, Hancocks Bridge, KJ 08038
Foot of Buttonwood Road, Hancocks Bridge, MJ 08038 4 Identification or system Safety Injection Nuclear Class II
5 a Identification of component repaired, modified or replaced ISJ5 Valve
D. Name of manufacturer Anchor Darling
c identifying nos FA-46 N/A N/A E/A 1988
,
6 Applicable Section(s) XI of ASME Code, 19 83 edition 1983 addenda Summer Code Case \$\sqrt{\textit{A}}\)
7 Design #SDCTSibilities PSEAG 8 Tests concurred, hydrostatic I pneumatic I design pressure X pressure NOP psiSystem Inservice Test
Descriptor r work Replaced study in kind from folio.
iuse of additional sheet's on sketchiest is acceptable if properly dentitled:
10 Remarks Work Order #900601225
CERTIFICATE OF COMPLIANCE We could the the second and the second and the all design material and workmanship on this. Replacement
We certify that the statements made in this report are correct and that all design, material and workmanship on this Red I a terment conforms to the applicable section of the ASME Code.
Certificate of Authorization no. 36 to use the "NR" stamp expires October 3 19 91
PSE&G Nuclear Department() Manager-Station OA 7/1)
Signed (repair organization) (authorized representative) (repair (repair organization) (repair organization)
CERTIFICATE OF INSPECTION
I, the uncersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of com-
petercy ssizes by the state of province of
of have inspected the repair, modification or replacement describes in this report
on 3-16 1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or
constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition.
By signing thus certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair. modification
or replacement described in this report. Furthermore, neither the inspector nor his employer shall be table in any manner for any personal injury
or property commage or loss of any kind arising from or connected with this inspection. Factory Mutual System
Date

FORM NR-1 REPORT OF REPAIR _ MODIFICATION _ OR INSTALLATION OF REPLACEMENT(S) _ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

		Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJF # S-90-313
		thame traper organizations a Complete
		Poot of Buttonwood Road, Hancocks Bridge, NJ 08038
	Z	Owner Public Service Electric & Gas Company
		(name)
		Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	•	Name, address and identification of nuclear power plan: Salem Nuclear Generating Station Unit # 1
		Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
		Identification of system Safety Injection Nuclear Class II
	5	a: Identification of component repaired, modified or replaced
		b. Name of manufacturer Crosby Valve
		c: identifying nos. 1N600378 N/A N/A N/A 1970 (Mat' 8c mc) (unisdictional no.) (other) (year built)
	Æ	Applicable section(s) XI of ASME Code, 19 83 edition 1983 addenda Summer Code Case N/A
	-	Design responsibilities PSE&G
	₹	Tests conducted hydrostatic pneumatic design pressure pressure NOP psi System Inservice Test
	:	Description 2 work Replaced valve and bolting in kind.
		juse or accomplished; sheet(s) or sketch(es) is acceptable if properly identified
		
	.~	Work Order #890907082
	٠.	Remarks: Work Order #890907082
	_	This valve replacement S/N N6-9971-01 was ordered to code
	_	requirements ANSI B16.5 1968.
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		•
_	,	CERTIFICATE OF COMPLIANCE
	₩e	certify that the statements made in this report are correct and that all design, material and workmanship on this
		nforms to the applicable section of the ASME Code.
	ಾ	rtificate of According no. 36 to use the "NF" stamp expires October 3 19 91
	Sg	PSE&G Nuclear Department Manager-Station QA 6/19 19 9/
		repair organization) (authorise recressively) (title) (title)
		CERTIFICATE OF INSPECTION
	il, 1	he undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel inspends and cartificate of com-
	De1	tency issued by the state or province of and employed by
		ofhave inspected the repair, modification or replacement cescribed in this report
	on.	and didn't have been a second the board the bo
•		nstructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication. MB 102 current edition. signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification
		replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manter for any personal injury
	•	property darrage or loss of any kind arising from or cognected with this inspection. Pactory Mutual System
	D~	(-75 6)
	Da.	19 Signed Commissions Nat18d. no. (notuding endorsements; state or province and number)
		<u>-</u>

FORM NR-1 REPORT OF REPAIR - MODIFICATION - OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	. Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJP # S-90-316
	(name) Roser organization's P.O. no., job no., etc.)
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)
2	Owner Public Service Electric & Gas Company
_	(name)
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)
3	Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit # 1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
4	. Identification of system Containment Spray Nuclear Class II
	b. a: Identification of component repaired, modified or replaced 12CS10 Valve
	b: Name of manufacturer Rockwell International
	c: Identifying nos. N/A N/A N/A N/A 1970
	umfr.'s serial no.) (Nat'l. Bd.'no.) (jurisdictional nc vother) (year built)
	6. Applicable section(s) XI of ASME Code, 19 83 edition 1983 addenda Summer Code Case N/A
	7. Design responsibilities PSE&G
	3. Tests conducted: hydrostatic pressure pressure pressure 283 psi. prescription of work Replaced valve mark #FA-17 with new valve mark #FA-131 S/N 1664.
Ş). Description of work Replaced Valve mark #FA-1/ With new valve mark #FA-131 S/N 1664. (use of additional sheet(s) or sketches: s acceptable if property identified)
10	Remarks: Work Order #890918166
•	. nellidiks.
-	DCP #1SO-00086 Pkg. #1
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	CERTIFICATE OF COMPLIANCE
)	We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement (repair, modification or replacement
	onforms to the applicable section of the ASME Code.
- 1	Manager Chaling Co.
S	igned PSESG Nuclear Department Manager-Station QA 4/1 19/1/ (repair organization) (authorized pregentative) (date)
\vdash	
1.	CERTIFICATE OF INSPECTION
	the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Ins. Co.
	etency issued by the state or province of Norwood, MA have inspected the repair, modification or replacement described in this report
	nave inspected the repair, modification or replacement described in this report on 3-2, 1991 and state that to the best of my know/edge and belief, this repair, modification or replacement has been made or
- 1	constructed by accordance with Section XI and Section III of the ASME Code and the National Soard rules as defined in the publications
	tonstructer, praccordance with Section XI and Section III Course Active Code and the National spard rules as defined in the publications in the Section III Code and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or im-
	blied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall
7 1 '	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
1,	Date 4-1 1991 Signed James & Commissions N5373
] `	(Authorized Inspector) (Nat'l. Bd. nc (including endorsements) state or province and number)

FORM NR-1 REPORT OF REPAIR MODIFICATION OF OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1.	Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJP # S-90-338
	Poot of Buttonwood Road, Hancocks Bridge, NJ 08038
	(account)
2	Owner Public Service Electric & Gas Company
٤.	(name)
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	(adoress)
3.	Name address and identification of nuclear power plant Salem Nuclear Generating Station Unit # 1 - Poot of Buttonwood Road, Hancocks Bridge, NJ 08038
4	Identification of system Containment Spray Nuclear Class II
	a: Identification of component repaired, modified or replaced 11CS36 Valve
٠.	b. Name of manufacturer Aloyco
	c identifying nos. N/A N/A N/A N/A 1987
6.	Applicable section(s) XI of ASME Code 19.83 edition 1983 addenda Summer Code Case N/A
7	Design responsibilities PSE&G Co.
8.	Tests conducted: hydrostatic \(\) pneumatic \(\) design pressure \(\) pressure \(\) possure \(\) NOP \(\) psi. \(\) 71sual Leak Examination
9	Description of work Installed new bonnet, study and nuts.
	use of additional sheet's of sketch(es) is acceptable if properly identified
10.	Remarks: Work Order #89081525C
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÷	CERTIFICATE OF COMPLIANCE
w	e certify that the statements made in this report are correct and that all design, material and workmanship or thisRepair_
	nforms to the applicable section of the ASME Code.
	ertificate of Authorization no. 36 to use the "NR" stamp expires October 3 1991
ŀ	PSEAG Nuclear Department (4)
3	ned
	CERTIFICATE OF INSPECTION
ı.	
·,	the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vassel Insectors, and certificate of com- stency issued by the state or province of
P	Norwood, MA have inspected the repair, modification or replacement described in this report
	n_3-16
Of	· · · · · · · · · · · · · · · · · · ·
	enstructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition.
	y signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, corcerning the repair, modification
	replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any mamner for any personal injury
	property damage or loss of any kind arising from or connected with this inspection. Factory Mitual System
D	ate 6/3 19 9 Signed Jomes 2. Commissions NJ 3/3
L	Authorized Inspector) Nat'l Bd. no. (including enconsements) state or province and number)

FORM NR-1 REPORT OF REPAIR \perp MCD-FICATION \perp OR INSTALLATION OF REPLACEMENT(S) \cong TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	Work performed by Public Service Electric & Gas Company - Nuclear Dept. TF #S-90-339
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	(address
2	Owner Public Service Electric & Gas Company
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
3	Name address and identification of nuclear power part Salem Nuclear Generating Station Unit # 1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	identification of system Containment Spray Nuclear Class II
4	a. Identification of component repaired, modified a rechaced 12CS36 Valve
5	b. Name of manufacturer Aloyco
	7701JDD 17 3 NY /3
	c: Identifying nos. S/OWDD R.E. N/A N/A 195 (mfr.s.serial.no.) Res. Bc. no.) (other: (year built)
_	Applicable section(s) XI of ASME Code 19 83 edition 1983 addenda Summer Code Case N/A
•	DCFCC
7	Tests conducted hydrostaticpneumaticdesign pressurepressureNOP_psSystem Inservice Test
5	Description of work Replaced bonnet stude and nuts in kind.
9	Description of work
- 0	Work Order #890912132
- U.	Remarks:
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	CERTIFICATE OF COMPLIANCE Replacement Replacement
	e Certify that the statements made in this report are 2.1 etc. and that are design, material and workmanship of this
	onforms to the applicable section of the ASME Code partificate of Authorization po 36 to use the "NE" stamp expres 0etober 3 19 91
Ce	BILLINGALE OF ADISTOFIZATION TO
S	gned
<u> </u>	(recarr organization) (authorated recreaseful affektion (ptie) (ptie)
ļ	CERTIFICATE OF INSPECTION
i,	the undersigned holding a valid commission issued to Tge National Board of Boiler and Pressure Vessel Inspects and certificate of the commission issued to the commission of the commission issued to the commission of the commissi
. pe	etency issued by the state or province of and employed by
i	of have inspected the repair, modification or replacement described in this report
or	n 3-18 1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or
, ~	onstructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication. NB 102 current edition.
	y signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification
7	
	replacement described in this report. Furthermore, reither the inspector nor his employer shall be liable in any matner for any personal musy property damage or loss of any kindlarising from or appreciate with this inspection. Factory Muttal: System
1	property durings of loss of any kind gloring from
D	ate 6-23 1991 Signed James 2. Lat Commissions No 3/3
	Authorized espection) Nat1 Bd., no. (Including endorsements) state or province and number

ORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S	3) 🗆
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1	of/b

1. Work performed by Public Service Flectric & Gas Co Nuclear Dept. CJP #P91 (name) (repair organization's P	-067 Rev.8
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
(address) 2. Owner <u>Public Service Electric and Gas Co.</u>	
(name) Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
(address)	
3. Name, address and identification of nuclear power plant <u>Salem Nuclear Generating Station Unit</u> Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	#1
	ear Class II
5. a: Component repaired, modified or replaced #11,12 Containment Fan Coil Unit, Penetration Pi	ping &
	pports
c: Identifying nos. <u>See Attachments</u>	1991
(mfr's. serial no.) (Nat'l.Bd.No.) (jurisdictional no.) (other)	(year built)
d: Construction Code ANST B31.7 1969 1970 N/A	II
ANSI B31.1 1967 Edition) (addenda) (Code Case(s))	(Code Class) N/A
6. Section XI 1983 Summer 83 (edition) (addenda)	(Code Case(s))
7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S8	i
	addenda) Seebde Case(s))
	70 Attached
	idenda) (Code Case(s))
9. Design responsibilities PSE&G PS Engg. Spec. S-C-MB00-MDS-043 & SGS/M-FD-1	
10. Tests conducted: hydrostatic pneumatic design pressure ** pressure Pq.2 psi Code Case(s)	N/A
11. Description of work Replaced service water penetration piping with piping of new	
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)	
and material.	
12. Remarks: Work Order #: 910913101 Deficiency Report #: N/A	·
Design Change Package #: 1FC-3053 Pkg. 1	
See attached pages for code case and additional hydrostatic informa	tion.
** System Inservice Test Performed at NOP. Temp. N/A	
OFFITTIOATE OF COMPLIANCE	
CERTIFICATE OF COMPLIANCE	
We sould that the statements made in this report are serious and the repair modification or replacement of the items described about	io conforms to Contina VI
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.	ve conforms, to Section Al
Certificate of Authorization no. ' 36 to use the "NR" stamp expires Oct. 3, 19 94 .	
	_ 1 1 2 -
Date 9-9 19, 92 Signed PSE&G CoNuclear Dept.	Principal Engr
(repair organization) (authorized representative)	(title)
CERTIFICATE OF INSPECTION	
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificat	te of competency issued by
the state or province of New Jersey and employed by Arkwright Mutual Insurance Co	ie of competency issued by
of MA have inspected the repair, modification or replacement described in this report on $3-19$, 1992	and state that to the
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME	
Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer m	
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector	
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 Mutu	nal System
5 7-11 , 19 7 L. Signed former & Continues (Commissions NO 37)	/
(Inspector) (Natl.Bd.No.(including endorsements))state or province and number)

Page 2 of /@ CJP # P91-067 Rev. 8

* Construction Code, Code Cases N-453-1, N-454 and N-455

Test No.	Component	Pressure	Temp.
#1	#11 CFCU Supply & Return	305 PSI	80.4°F
	#12 CFCU Return		
#3	#12 CFCU Supply	310 PSI	84.4 ⁰ F

CODE JOB PAC



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UNIT: SALEM 1

* N-453-1, N-454, N-455 ***ENG. SPEC.: S-C-MB00-MD8-043 & SGS/M-FD-1

#11 FCU RETURN				54, N-455	***E			MB00-MD8-04:	3 & 8G8	/M-FD-1
		DES. CODE		FAB. CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	•
1-SW-289	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGO
1-SW-P-6486		"	"	* "	"	"	1303	,		CONNEX 1991
RD-1-SW-289A	11	••	••	11	**	11	**			PULLMAN KELLOGO 1973
1-SW-P-6486	"	**	"	* "	11	••	88			CONNEX 1991
RD-1-SW-289A	11	11	**	"	11	••				PULLMAN KELLOGO 1973
1-SW-P-6487	11	11	••	* #	••		••			CONNEX 1991
*** 1P-SWA-PS-54	•	98	**	99	11	***	•			UE&C 1974
*** 1P-SWA-PS-54	.,	11	11	* "	••	11	**			PSE&G 1992
1-SW-290B	••	11	91	11	99	11	••			PULLMAN KELLOGO 1973
1-SW-P-6488	**	11	11	* "	11	11	58			CONNEX 1991
RD-1-SW-290	99	11	01	11	01	00	99			PULLMAN KELLOGO 1976
1-SW-P-6488	91	11	11	* "	11	99	11		-	CONNEX 1991
RD-1-SW-290	10	11	11	10	11	11	11			PULLMAN KELLOGO 1976
1-SW-P-6489		10	99	* 11	99	89	11			CONNEX 1991





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PAGE	2B	_OF	7
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#11 FCU RETURN		DES. CODE & YR. FAB. CODE & YR. INST. CODE & YR. AND CODE CASE AND CODE CASE						CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	Y
1-SW-290A	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGG 1976
11	99	89	00	11	90		99			DELETED 1992

1-SW-29UA	T T	B21.T	196/	B31./	1969	1531./	1969		<u> </u>	1976
10	••	00	00	••	88	10	90			DELETED 1992
	1							·		
										

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SALEM 1

#12 FCU SUPPLY		* N·	-453-1,	N-454, N						
		DES. CODE AND CODE		FAB. CODE & YR. AND CODE CASE*		INST. CODE & YR. AND CODE CASE		CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
12SW58 (AA-105)	II	DRAFT P&V	1968	DRAFT P&V	1968	ANSI B31.7	1969	N-00113-37-2	N-857	MASONEILAN 1975
·	,,	91			91	**		11	11	RELOCATED 1992
RD-1-SW-239-2	11	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGO 1976
11	"	11	"	11	••	11	••			DELETED 1992
L-SW-239C	11	**	11	11	**	11	н			PULLMAN KELLOG 1973
11	69	00	11	11	н	**	••			DELETED 1992
1-SW-239A	н	**	11	11	91	00	"			PULLMAN KELLOG 1973
11		11		#	н	88				DELETED 1992
1-SW-239B	••	11	"	11	11	"	"			PULLMAN KELLOG 1973
11	•	91	•	••	91	•0				DELETED 1992
L-SW-240	11	11	11	11	***	"	te			PULLMAN KELLOG 1973
1-SW-P-6519	11	11	11	# H	11	11	11	·		CONNEX 1991
1-SW-240	11	***	11	11	"	91	11			PULLMAN KELLOG 1973
1-SW-P-6520	•	•	••	* 11	99	91	••			CONNEX 1991

GE COVER CONTINUTATION SHEET page 6 00 10

CJP NO	.: <u>P</u>	<u>-91-0</u>	<u>67 </u>
DATE: J	ANUAR	Y 11,	1992
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UNIT: SALEM 1 #12 FCU SUPPLY * N-453-1, N-454, N-455 ***ENG. SPEC.: S-C-MB00-MD8-043 & SGS/M-FD-1 DES. CODE & YR. FAB. CODE & YR. INST. CODE & YR. CODE AND CODE CASE* AND CODE CASE AND CODE CASE SYMBOL/ MANUFACTURER/ ASME SERIAL NO. NB NO. OLD COMPONENT YEAR NEW COMPONENT CLASS CODE YEAR CODE YEAR CODE YEAR PULLMAN KELLOGG ANSI ANST ANSI 1967 1-SW-240B II B31.1 B31.7 1969 B31.7 1969 1973 . 1-SW-P-6520 **CONNEX 1991** PULLMAN KELLOGG 11 ** ** . 1973 RD-1-SW-240A 77 H 11 ** 1-SW-P-6521 • # 11 CONNEX 1991 11 Ħ 88 98 . 11 . **UE&C** 1974 1P-SWA-PS-50 ** # 88 * • ** 18 PSE&G 1992 1P-SWA-PS-50 PULLMAN KELLOGG • 11 ** • ** . . 1973 RD-1-SW-240A ** . Ħ . 99 11 **CONNEX 1991** 1-SW-P-6522 PULLMAN KELLOGG Ħ 11 11 88 * 11 ** 1973 1-SW-241 11 . * * . . CONNEX 1991 1-SW-P-6522

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W.O. NO.: 910913101

#12 FCU RETURN	, 	DES. CODE		FAB. CODE			ODE & YR.	C-MB00-MD8-	043 & 8	GB/N-FD-1
		AND CODE		AND CODE		AND COD		SYMBOL/	1	MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	•
1-SW-258	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGO 1973
1-SW-P-6511	"	**	••	分 91	"	11	11			CONNEX 1991
*** 1P-SWA-PS-55	11	••	11	91	**	••	••			UE&C 1974
*** 1P-SWA-PS-55	11	11	98	*	11	**	91			PSE&G 1992
RD-1-SW-259	"	11	11	11	11	11	"			PULLMAN KELLOGO 1973
1-SW-P-6512	"	11	"	* "	,,	*1	"			CONNEX 1991
1-SW-260B	••	11	"	11	11	**	11			PULLMAN KELLOGO 1973
1-SW-P-6514	••	11	11	* "	.,	90	11			CONNEX 1991
RD-1-SW-260	10	11	99	11	11	11	99			PULLMAN KELLOGO 1979
1-SW-P-6514	••	11	80	* "	11	11	11			CONNEX 1991
RD-1-SW-260	11	91	11	11	10	99	11			PULLMAN KELLOG 1979
1-SW-P-6515	11	••	11	# 11	10	99	91			CONNEX 1991
12SW72 (AA-105)	••	DRAFT P&V	1968	DRAFT P&V	1968	11	91	N-00113-39-2	N-857	MASONEILAN 1974
11	••	11	"	11	80.	99	90	11	11	RELOCATED 1992

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DATE: 4.12.92

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REVISION: 1

UNIT: SALEM 1

		DES. CODE		FAB. CODE AND CODE		INST. C	CODE & YR. DE CASE	SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
NUTS	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			ALLIED 1991
										·
BOLTS	11	11	••	11	11	н	11			ALLIED 1991
(old) 51-5lv-49	亚	ASME	1968	ASME III.	1968	ASME III	1968	NOT STAHPED		MWKEU060
(OLD)		15145		16MG		AZAAE		Not	,	MWKELLOG
51-5LV-50	11.	ASME TIL	1968	ASME III	Mas	ASME III.	1968	STAMPED		1969
(OLD) 51-SLV-54	亚	ASME III	1948	ASME III	1968	ASME III	1968	NOT STAMPED		MW KELLOG 1969
·					ļ					
·	<u> </u>		 			ļ	 			
<u></u>			 							
		<u> </u>	<u> </u>	L	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>



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DATE: JANUARY 11, 1992

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W.O. NO.: 910913101

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UNIT: SALEM 1

		DES. CODE		FAB. CODE AND CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	
NUTS	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			ALLIED 1991
										·
BOLTS	11	11	••	11	"	11	11			ALLIED 1991
		· · · · · · · · · · · · · · · · · · ·			 					
										
	<u>, </u>									
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SALEM 1

UNIT:

		AND CODE		FAB. CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
RD-1-SW-272	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGO 1979
1-SW-P-6494	98	11	90	* "	81	••	91			CONNEX 1991
RD-1-SW-273	99	11	11	11	"	91	11			PULLMAN KELLOGO 1973
1-SW-P-6495	"	08	"	* 11	••	91	11			CONNEX 1991
*** 1P-SWA-PS-49	"	99	00	11	"	11	11			UE&C 1974
*** 1P-SWA-PS-49	98	99	11	* "	10	••	11			PSE&G 1992
RD-1-SW-273	08	11	••	11	"	11	#			PULLMAN KELLOGO 1973
1-SW-P-6496	80	•	H	* "	11		11			CONNEX 1991
RD-1-SW-273	99	91	••	"	66	11	11			PULLMAN KELLOGO 1973
1-SW-P-6497		. 10	"	* "	11	11	11			CONNEX 1991
1-SW-274	60	91		"	11	11	11			PULLMAN KELLOGO 1974
1-SW-P-6497	,,	11		* "	***	11	11			CONNEX 1991
11-SW58 (AA-105)	11	DRAFT P&V	1968	DRAFT P&V	1968	11	11	N-00113-37-1	N-857	MASONEILAN 1975
11-SW58 (AA-105)	••	11	19	"	er	11	"	11	11	RELOCATED 1992
1-SW-272-1	"	ANSI B31.1	1967	ANSI B31.7	1969	11	11			PULLMAN KELLOGO 1979
11	,,	11	11	"	11	11	"			DELETED 1992

				•	
Dat	ate 9-8 19,92 Signed PSE&G CoNuclear I		dides ed representative)		itle)
of t Ce	the ASME Code and the National Board rules as defined in the publication for the ASME and the National Board rules as defined in the publication for the authorization no	NB-102, current edition. iresOct. 3, 19	-		o Section XI . pal Engi
	CERTIFICATE	OF COMPLIANCE			
_	**	Temp. N/A			
12.	2. Remarks: <u>Work Order #: 910913101</u> Design Change Package #: 1EC-3053 See attached pages for Description			N/A	
)- -					
	Description of workModified supports and hanger:		w piping de	· /————	
	Design responsibilities	e **pressure N/A	psi Code Cas	e(s) N/A	
0.		ANSI B31.1 1967 Ed			Code Case(s))
R	Applicable edition of Construction Code under which repairs, modifications	s or replacements were made	(edition) : *1969	, , ,	(Code Case(s) N/A
7.	7. Applicable edition of ASME Code Section XI under which repairs, modifica	ations, or replacements were n	nade: <u>1983</u>	_S831	N/A
0.	(edition)	(addenda)		(Code Case(s))	
6	ANSI B31.1 1967 (addenda) 5. Section XI 1983	mmer 83	Case(s))	(Code Class	s) /A
	d: Construction Code ANST B31.7 1969 1970	· · · · · · · · · · · · · · · · · · ·	/A	2	
	(mfr's. serial no.) (Nat'l.Bd.No.) (juri	•	(other)	(year	· built)
	c: Identifying nos. See Attachments			achments	
5	and the second s	ent ran corr ontes		s & Hangers	
	4. System <u>Service Water</u> 5. a: Component repaired, modified or replaced <u>#11,12 Contairm</u>	ont Enn Coil Imita		<u>Nuclear Clas</u>	<u> 55 11 </u>
	Foot of Buttonwood Road, Hancocks Bridge	NJ 08038			
3	Name, address and identification of nuclear power plantSalem	Nuclear Generatin	g Station	Unit #1	
	Foot of Buttonwood Road, Hancocks Bridge	(address)			
	East of Duttowned Dood Hangooks Dridge	(name)			
2	2. Owner Public Service Electric and Gas Co	(address)		·	
,	Foot of Buttonwood Road, Hancocks Bridge	-			
,		(name)	(repair organizat	ion's P.O. no., job. no.	.,etc.)
)	1. Work performed by <u>Public Service Flectric & Gas</u>	Co Nuclear Dep	C. CUP	#FAT-008	

best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this 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.

(inspector)

Factory Mutual System

(Natl Bd No (including endorsements) state or province and number)

E C

CJP NO.: P-91-06E

DATE: DECEMBER 6, 1991
PAGE 2 OF 7

REVISION: _____0

W.O. NO.: 910913101

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UNIT: BALEM 1

		DES. CODE		FAB. CODE AND CODE		INST. C	ODE & YR.	SYMBOL/		MANUFACTURER
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
P-12SWG-28	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PSE&G 1974
P-11SWG-31A	11	••	••	н	**	81	ıı			PSE&G 1992
P-12SWG-27	••	00	e4		99	••	"			PSE&G 1974
P-11SWG-32A	. 00	91	11	**	••	00	••			PSE&G 1992
P-14SWG-8	**	н	11	**	11	н	91			PSE&G 1974
P-12SWG-33A	11	00	61	**	94	99	11			PSE&G 1992
P-14SWG-7	**	90	91	**		н	"			PSE&G 1974
P-12SWG-34A	n	***	11	н	11	н	.,			PSE&G 1992
P-11SWH-33	49	80	P9	89	••	**	"			PSE&G 1992
P-11SWH-30	••	98	n	11	"	H	11			PSE&G 1992
P-12SWH-32		99	11	••	"	11	11			PSE&G 1992
P-12SWH-15	"	94	81	"	"	99	80			PSE&G 1975
		11	**		••	11	10			DELETED 1992

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1991

1991

PIPING SPECIALITES

CJ	P	NO	. :	 P	-9	1-0	<u>6L</u>
				 		_	

DATE: DECEMBER 6, 1991
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W.O. NO.:910913101

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SALEM 1

NUTS

"U"-BOLTS

		DES. CODE		FAB. CODE AND CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
P-11SWG-27	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PSE&G 1980
11	11	60	99	11	#10	11	11			DELETED 1992
P-11SWG-26	10	f e	.,	et .	11	**	"			PSE&G 1988
	11	11	66	11	50		**			DELETED 1992
BEAM ATTACHMENTS	80	99	••	11	"	••	91			PIPING SPECIALITE 1991
HANGER RODS	**	"	99	11		90	**			PIPING SPECIALITE 1991
			<u> </u>		 	 				PIPING SPECIALITE
SPRING CANS	89	. 00	••	60	00	90	••	<u> </u>		1991
WELDLESS EYE					 					PIPING SPECIALITE

	TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS	
1.	1. Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJP #	s-91 - 070
	(name) (repair organization's P.O.	no., job no., etc.)
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)	
2.	Owner Public Service Electric & Gas Company (name)	
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
3.	3. Name. address and identification of nuclear power plant Salem Nuclear Generating Station Uni Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	t # 1
4.	4. Identification of system <u>Chemical Volume Control</u> Nuclear Class II	
5.	5. a: Identification of component repaired, modified or replaced 1CV116 Valve b: Name of manufacturer Anchor Darling Valve Co.	
	c: Identifying nos. N/A N/A N/A N/A	1988
	(mfr.'s serial no.) (Nat'l. Bd. no.) (Jurisdictional no.) (other)	(year built)
_	6. Applicable section(s) XI of ASME Code, 19_83 edition 1983 addenda Summer Code C	
	3. Tests conducted: hydrostatic pneumatic design pressure pressure N.O.P.psiSyste4m I 3. Description of work Replaced bonnet studs and nuts in kind.	nservice Te
5 .	(use of additional sheet(s) or sketch(est is acceptable if properly identified)	
).). Remarks:Work Order #901211140	
_		
_		
_ 		
_		
_	CERTIFICATE OF COMPLIANCE	
Ve	Ve certify that the statements made in this report are correct and that all design, material and workmanship on this $\underline{ ext{Repl}}$	acement
	conforms to the applicable section of the ASME Code.	/
	Certificate of Authorization no. 36 to use the "NR" stamp expires October 3 19 91 Signed PSE&G Nuclear Department Manager-Station QA	19/
	(repair organization) (authorized representative) (title) CERTIFICATE OF INSPECTION	(date)
	, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and betency issued by the state or province of New Jersey and employed by Arkwright Mutual Inspectors	d certificate of co
_	of Norwood, MA have inspected the repair, modification or replacement desc	ribed in this rep
	constructed to accordance with Section XI and Section III of the ASME Code and the National Board rules as defined	in the publicatio
	NB-65-and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warrant plied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor liable in any manner for any parents in large or a report of any kind ariging from or connected with	r his employer sh
7	liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with Factory Mutual Systems 4-1	
J	Date 7 , 19 1/ Signed Commissions Commissions (Nat'l. Bd. no. (Including endorsements) state	te or province and num
_		

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S)

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS | Page 1 of 17

	JP #P91-071 Rev.7
	anization's P.O. no., job. no.,etc.)
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)	
2. Owner Public Service Electric and Gas Co.	
(name)	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
(address)	
3. Name, address and identification of nuclear power plantSalem Nuclear Generating Static	n Unit #1
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
4. System Service Water	Nuclear Class II
5. a: Component repaired, modified or replaced #13,14,15 Containment Fan Coil Unit, Pene	tration Piping &
b: Name of manufacturerConnex	Supports
c: Identifying nos. See Attachments	1991
(mfr's. serial no.) (Nat'l.Bd.No.) (jurisdictional no.) (other)	(year built)
d: Construction Code <u>ANSI B31.7 1969</u> 1970 N/A	<u>II</u>
ANSI B31.1 1967 Edition) (addenda) (Code Case(s))	(Code Class)
6. Section XI 1983 Summer 83	N/A
(edition) (addenda)	(Code Case(s))
7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 198	_
(editi	· · · · · · · · · · · · · · · · · · ·
8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: *1969 *ANST_B31_7/ANST_B31_1_1967_Fd_/ (edition)	
*ANSI B31.7/ANSI B31.1 1967 Ed./ (edition) 9. Design responsibilities PSE&G PS Engq. Spec. S-C-MB00-MDS-043 & SGS/M-FD-1	(addenda) (Code Case(s))
	Case(s) N/A
11. Description of work <u>Replaced service water penetration piping with piping</u>	· /
(use of additional sheet(s) or sketch(es) is acceptable if properly iden	
and material.	,
12. Remarks: Work Order #: 910913118 Deficiency Report	#: N/A
Design Change Package #: 1FC-3053 Pkg. 1	
See attached pages for code case and additional hydrostatic	information.
** System Inservice Test Performed at NOP. Temp. N/A	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described the statements made in this report are correct and the repair, modification or replacement of the items described to the statements of the items described to the items	cribed above conforms to Section XI
of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.	-
Certificate of Authorization no. 36 to use the "NR" stamp expires Oct. 3, 19 94.	•
Date 9-9 19.92 Signed PSE&G CoNuclear Dept.	Principal Engr
	(rito)
(repair organization) (authorized representati	(tite)
CERTIFICATE OF INSPECTION	
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, an	d certificate of competency issued by
the state or province of New Jersey and employed by Arkwright Mutual Insurar	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
	ce Co
of MA have inspected the repair, modification or replacement described in this report on 5-/9	ce Co , 1992 and state that to the
of <u>MA</u> have inspected the repair, modification or replacement described in this report on <u>5-/9</u> best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of	, 19 <u>9</u> and state that to the
- 123 - Have mapped and repair, when the second and	, 19 <u>52</u> and state that to the the ASME Code and the National
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of	nd state that to the the ASME Code and the National employer makes any warranty.
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this in	and state that to the the ASME Code and the National employer makes any warranty, Inspector nor his employer shall be spection.
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this in Factor.	and state that to the the ASME Code and the National employer makes any warranty, anspector nor his employer shall be
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this in Factor 1997. Signed 2000 2000 2000 2000 2000 2000 2000 20	and state that to the the ASME Code and the National employer makes any warranty, Inspector nor his employer shall be spection.

* Construction Code, Code Cases N-453-1, N-454 and N-455

Test No.	Component	Pressure	Temp.
#2	#13 CFCU Supply & Return	305 PSI	80.4°F
	#14 CFCU Return		
	#15 CFCU Supply & Return		
#4	#14 CFCU Supply	310 PSI	84.4 ⁰ F

CJP NO.: P-91-071

DATE: December 17,1991

WORKING COPY CJP: 910913118

#13 FCU SUPPLY				1, N-454, N		—				
		DES. CODE		FAB. CODE		INST. C	ODE & YR.	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
1-SW-P-1116	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			CATALYTIC 1985
1-SW-P-6529	91	00	11	* "	89	90	**			CONNEX 1991
1-SW-141H-R	11	11	00	"	11	99	99			PULLMAN POWER 1973
1-SW-P-6529	11	11	11	* 11	11	11	"			CONNEX 1991
1-SW-141F	**	••	••	11	"	11	"			PULLMAN KELLOGG 1973
11	69	11	11	"	"					DELETED 1992
1-SW-141A	11	10	11	11	11	11	00			PULLMAN KELLOGG 1973
11		**	11	"	**				ļ	DELETED 1992
1-SW-141B	11	••	11	11	11	11	11			PULLMAN KELLOGG 1975
	88	••	11	11	11	11	11			DELETED 1992
RD-1-SW-141B-1	90	11	11	11	11	11	11			PULLMAN KELLOGG 1975
••	en	••	**		н				·	DELETED 1992
1-SW-141C	11	10	11	11	.11	89	11			PULLMAN KELLOGG 1973
1-SW-P-6530		••	•	* "	**	61	"		 - 	CONNEX 1991
1-SW-141E	**	**	••	11	11	11	11			PULLMAN KELLOGG 1973
1-SW-P-6530	H	**	11	* "		.,				CONNEX 1991



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		DES. CODE		FAB. CODE AND CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	
1-SW-141-D	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGO 1973
1-SW-P-6530	90	10	99	* "	98	88	11			CONNEX 1991
RD-1-SW-142	99	11	10	ti	11	••	11			PULLMAN KELLOGO 1973
1-SW-P-6531		00	11	* "	99	91	"			CONNEX 1991
*** 1P-SWA-PS-48	11	**	11	80	18	69	••			UE&C 1974
*** 1P-SWA-PS-48	99	••	10	* "	11	90	11			PSE&G 1992
RD-1-SW-142	99	11	**	••		99	11			PULLMAN KELLOGO 1973
1-SW-P-6532	11	11	11	* "	11	11	"		ļ 	CONNEX 1991
										
·										
		· _ · · · · · · · · · · · · · · · · · ·								
				<u> </u>						



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UNIT: SALEM	<u> </u>		*N-453-1, N-454, N-455 ***ENG. SPEC.:S-C-MBOO-MDS-043 & SGS/M-FD-1										
#13 FCU RETURN		*N-453-1	, N-454,	N-455 ***	ENG. SPE	C.: S-C-M	300-MDS-04	3 & SGS/M-FD-	·1				
		DES. CODE	& YR.	FAB. CODE AND CODE	& YR.		ODE & YR.	CODE SYMBOL/		MANUFACTURER/			
OLD COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR			
RD-1-SW-171	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGG 1973			
1-SW-P-6523	10		,,	* "	11	11	**			CONNEX 1991			
RD-1-SW-171	11	11		***		11	90			PULLMAN KELLOGG 1973			
1-SW-P-6524	11	11		* II	11	11	••	<u> </u>		CONNEX 1991			
*** 1P-SWA-PS-53	11	n		••		11	••			UE&C 1974			
*** 1P-SWA-PS-53	11	11	11	* 10	11	11	99			PSE&G 1992			
RD-1-SW-172D	10	•	••	10	#1	99	••			PULLMAN KELLOGG 1973			
1-SW-P-6525	••	01		* H	"	11	**			CONNEX 1991			
RD-1-SW-172C	***	••	11	11	11	10	00			PULLMAN KELLOGG 1973			
1-SW-P-6525	••	11	**	* "		11	91			CONNEX 1991			
RD-1-SW-172C	81	11	"	11	11'	11	**			PULLMAN KELLOGG 1973			
1-SW-P-6526	"	18	н	* 11	10	91	11			CONNEX 1991			
1-SW-172E	"	91	**	••	••	G0	11			PULLMAN KELLOGG 1973			
19	11	11	11	11	"	88	11			DELETED 1992			



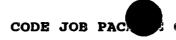
CJP NO.: P-91-071 DATE: December 17.1991

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UNIT: SALEM 1 #13 FCU RETURN *N-453-1, N-454, N-455 DES. CODE & YR. FAB. CODE & YR. INST. CODE & YR. CODE AND CODE CASE AND CODE CASE * AND CODE CASE SYMBOL/ MANUFACTURER/ ASME SERIAL NO. NB NO. OLD COMPONENT YEAR NEW COMPONENT CLASS CODE YEAR CODE **YEAR** CODE YEAR ANST ANST ANST PULLMAN KELLOGG 1967 B31.7 1969 B31.7 1973 1-SW-172B TT B31.1 1969 . 88 88 DELETED 1992 PULLMAN KELLOGG . . 99 . tt 1974 RD-1-SW-172A **f1** 11 80 .. DELETED 1992 PULLMAN KELLOGG 11 10 89 ** 1-SW-172H 1973 . 88 86 . 99 DELETED 1992 PULLMAN KELLOGG 1974 RD-1-SW-172A-1 11 ** DELETED 1992 PULLMAN KELLOGG . 11 1-SW-172G 1973 • . CONNEX 1991 1-SW-P-6526 PULLMAN KELLOGG RD-1-SW-172-1 • 1-SW-P-6526 CONNEX 1991 PULLMAN KELLOGG . RD-1-SW-172 1976 ** 11 1-SW-P-6526 11 CONNEX 1991





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UNIT: SALEM 1										
#13 FCU RETURN				N-453-1, N-				···	 ,	
		DES. CODE	&`YR. CASE	FAB. CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	
- HZW GOINT GREAT	022.55	ANSI		ANSI		ANSI			L	PULLMAN KELLOGG
RD-1-SW-172-2	II	B31.1	1967	B31.7	1969	B31.7	1969			1976
1-SW-P-6526	10	11	••	* "	**	••	••			CONNEX 1991
					}	ı				
									·	

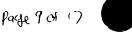


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#14 FCU SUPPLY

		DES. CODE		FAB. CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
14SW58 (AA-105)	II	DRAFT P&V	1968 MARCH 70	DRAFT P&V	1968 MARCH 70	.,	1969	N-00113-37-4	N-857	MASONEILAN INT. 1975
14SW58 (AA-105)	11	**	••	99	"	11	•0	11	11	RELOCATED 1992
RD-R-1-SW-182A-3	99	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	88			PULLMAN KELLOGO 1975
11	11	11	••	11	••	11	91			DELETED 1992
RD-R-1-SW-182A	"	11	•••	"	"	11	"			PULLMAN KELLOGO 1975
11	11	H	••	. 11	**	**	90			DELETED 1992
1-SW-182-5	11		••	11	11	11	11			PULLMAN KELLOGO 1975
••		**	••	"	**	61	11			DELETED 1992
1-SW-182-4	,,	**	**	11	••	**	"			PULLMAN KELLOGO 1975
10	••	•	••	11	11	99	•			DELETED 1992
1-SW-182-3	11	11	11	11	"	11	11			PULLMAN KELLOGO 1975
**	11	,,		"	**	••	• ••	,		DELETED 1992
1-SW-182-2	••	11	11	11	11	11	10			PULLMAN KELLOGO 1975
11		01	91	99	"	01	"			DELETED 1992
	<u> </u>									





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UNIT: SALEM 1 #14 FCU SUPPLY	<u> </u>	*W_AE?	L_1 W_4E	A N_ASS ±:	tteng gr	RC.+8-C-4	IRAA-MDS-A	43 & SGS/M-FD	ı= 1	
FIG FCU BUFFUI		DES. CODI	E & YR.	FAB. CODE	E & YR.		ODE & YR.			MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
1-SW-184	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOG 1973
1-SW-P-6507	.,	н	••	* "	99	••	99			CONNEX 1991
1-SW-184	"	88		••	99	11	11			PULLMAN KELLOG 1973
1-SW-P-6508	"	••	**	* "	"	99	"			CONNEX 1991
1-SW-184A	,,	te	91	••	11	**	**			PULLMAN KELLOG
1-SW-P-6508	17	••	••	* H	••	••	11			CONNEX 1991
RD-1-SW-185	**	10	••	••	11	••	11			PULLMAN KELLOG 1974
1-SW-P-6509	19	10	"	* 11	**	••	11			CONNEX 1991
*** 1P-SWA-PS-47	90	0●	"	99	P1	91	11			UE&C 1974
*** 1P-SWA-PS-47	11	D e	11	* 01	"	91	98			PSE&G 1991
RD-1-SW-185		••	11	99	11	91	09			PULLMAN KELLOG
1-SW-P-6510	••	11	91	* 11	11	11	11			CONNEX 1991
1-SW-186	**	••	11	99	91	11	80			PULLMAN KELLOG 1973
1-SW-P-6510	11	•0	11	* "	"	90	,,			CONNEX 1991



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UNIT: SALEM 1	<u> </u>								<u></u>	
#14, FCU RETURN		DES. CODE	`& YR.	FAB. CODE	FAB. CODE & YR. AND CODE CASE *		G-C-MBOO-M ODE & YR. E CASE	DS-043 & SGS/ CODE SYMBOL/	M-FD-1	MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
RD-1-SW-211	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGG 1973
1-SW-P-6498	00	10		* "	"	"	11	<u> </u>		CONNEX 1991
*** 1P-SWA-PS-52	07	H			11	11	99			UE&C 1974
*** 1P-SWA-PS-52		••		* "		10				PSE&G 1992
RD-1-SW-211	••	••	90	11	н	**	"			PULLMAN KELLOGG 1973
1-SW-P-6499	,,	• ••	11	# 66	19	99	99			CONNEX 1991
1-SW-212E	0 0	99	11	69	••	91	••			PULLMAN KELLOGG 1973
1-SW-P-6500	00	60	10	* es	11	99	18			CONNEX 1991
1-SW-212B	••	••	(1	••	tı	11	11			PULLMAN KELLOGG 1973
1-SW-P-6500	••	10	.,	# 99	68	11	••			CONNEX 1991
1-SW-212B	00	**	••	••	48	10	"			PULLMAN KELLOGG 1973
1-SW-P-6501	99	••	11	* "	88	11	11 .			CONNEX 1991
1-SW-212F	99	98	••	11	99	10	11			PULLMAN KELLOGG 1973
••	18	••	11	. ,,	••		11			DELETED 1992



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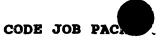
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UNIT: SALEM 1										
#14 FCU RETURN		DES. CODE	`& YR.	FAB. CODE AND CODE	& YR.		ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	
1-SW-212A	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGG 1973
	10	68		99	**		tı.			DELETED 1992
1-SW-212D	++	**		n	"	10	10			PULLMAN KELLOGG 1973
	"	11	••		••	••	••			DELETED 1992
1-SW-212G	••	11	11	99	11	••	10			PULLMAN KELLOGG 1973
•	11	••	11	91	81	11	••			DELETED 1992
1-SW-212C	"	••	01	11	11	11	11			PULLMAN KELLOGG 1973
11	10	••	11	H	11	11	••			DELETED 1992
1-SW-212H		80	88	98	60	Ħ	99			PULLMAN KELLOGG 1973
11	68	90	11	11	90	11	11			DELETED 1992
RD-1-SW-212	••	00	F 1	11	••	Ħ	12			PULLMAN KELLOGG 1976
1-SW-P-6501	60	60	00	* "	11	**	99			CONNEX 1991
										
								,		





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		DES. CODE		FAB. CODE AND CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
15SW58 (AA-105)	II	ASME III		ASME III		••	1969			
15SW58 (AA-105)	••	89	99	10	.,	••	•			RELOCATED 1992
RD-1-SW-221A	"	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	11			PULLMAN POWER 1979
1-SW-P-6481		11	10	* "	•	11	••			CONNEX 1991
RD-1-SW-221	91	11	00	11	**	99	00			PULLMAN KELLOG 1976
1-SW-P-6481	11	11	11	* "	••	11	"			CONNEX 1991
RD-1-SW-221		01	••	"	11		11			PULLMAN KELLOG 1976
1-SW-P-6482	60	11	11	·	••	91	99			CONNEX 1991
RD-1-SW-221B	91	11	11	11	80 j.	11	11			PULLMAN KELLOG 1973
1-SW-P-6482	11	11	"	* "	"	11	11		-	CONNEX 1991
RD-1-SW-222	11	11	11	"	••	11	99	·		PULLMAN KELLOG 1975
1-SW-P-6483		,,		* "		"	••			CONNEX 1991
*** 1P-SWA-PS-46	"	10	11	11	81	11	11			UE&C 1974
*** 1P-SWA-PS-46	11	80	11	* "	11	11	**			PSE&G 1992





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UNIT: SALEM 1	<u></u>									
#15 FCU SUPPLY		DES. CODE	& YR.	N-453-1, N- FAB. CODE AND CODE	& YR.		ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	
RD-1-SW-222	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969		, , ,	PULLMAN KELLOGG 1975
1-SW-P-6484	91	•	11	* H	"	11	88			CONNEX 1991
1-SW-222A	61	11	.,	11	"	•11	89	L		PULLMAN KELLOGG 1973
1-SW-P-6485		11	11	* "		99	11			CONNEX 1991
									<u> </u>	
										





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REVISION: 0

#15 FCU RETURN								-MD8-043 & 8G	8/M-FD-1	
		DES. CODE		FAB. CODE		INST. C	ODE & YR. E CASE	SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
RD-1-SW-227A	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PULLMAN KELLOGO 1973
1-SW-P-6472	#	••	11	* *	••	99	99			CONNEX 1991
*** 1P-SWA-PS-51		н	**	••	•	11	**			UE&C 1974
*** 1P-SWA-PS-51	.,	11	**	* 11	••	97	11			PSE&G 1992
RD-1-SW-227	н	11	11	99	61	н	69			PULLMAN KELLOGO 1973
1-SW-P-6473	11	**	11	* "	••	. 11	11			CONNEX 1991
1-SW-228B	"	11	.,	* "	.,	10	11			PULLMAN KELLOGO 1973
1-SW-P-6474	**	11	***	* 11	••	11	99			CONNEX 1991
RD-1-SW-228	"	11	н	90	••	99	99			PULLMAN KELLOGO 1976
1-SW-P-6474	11	Ħ	***	* 11	••	00	11			CONNEX 1991
RD-1-SW-228	88	••	.,	98	••	90	11			PULLMAN KELLOGO 1976
1-SW-P-6475	••	**	**	* "	••	80	11			CONNEX 1991
RD-1-SW-228A	••	**	н	••	••	00	11			PULLMAN KELLOGO 1976
1-SW-P-6475	**	. 11	••	* 11	••	00	"			CONNEX 1991





CJP NO.: P-91-071

DATE: December 17,1991

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REVISION: 0

W.O. NO.: 910913118

UNIT: SALEM 1 #15 FCU RETURN										
		DES. CODE & YR. AND CODE CASE		FAB. CODE & YR. AND CODE CASE		INST. CODE & YR. AND CODE CASE		CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
15SW72 (AA-105)	II	DRAFT P&V	1968 MARCH 70	DRAFT P&V	1968 MARCH 70	11	1969	N-00113-39-5	N-857	MASONEILAN INT. 1974
15SW72 (AA-105)	11	98	99	11	10	11	80	,,	61	RELOCATED 1992
										
`										
										
	 	<u> </u>					 			

CODE JOB

WORKING COPY CJP

CJP NO.: P-91-071

DATE: 4.12.92

PAGE 2M OF 7

REVISION: 1

W.O. NO.:910913118

		AND CODE		FAB. CODE		INST. C	ode & yr. E case	CODE SYMBOL/		MANUFACTURER
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
NUTS	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			ALLIED 1991
BOLTS	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			ALLIED 1991
(OLD) 51-SLV-46	11	ASME III	1968	ASME III.	1968	ASME TIL	1968	NOT STAMPED	·	HWKELLOG 1969
(OLD) 51-SLV-47	7	ASME III	1968	ASME III	Plas	ASHE III	1968	NOT STAMPED		HWKELLOG 1969
(OLD) 51-51V-48	I	ASME III	1968	ASHE TIL	1968	ASHE TIL	1968	NOT STAMPED		MWKELLD 1969
(OLD)	TT	AGME	10/6	ASME	an a	ASHE	19/2	NOT		MWKELO

UNIT:

SALEM 1



CJP NO.: P-91-071

DATE: December 17,1991

PAGE 2M OF 7

W.O. NO.: 910913118

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		PLY AND RETURN DES. CODE & YR. AND CODE CASE		FAB. CODE & YR. AND CODE CASE		INST. CODE & YR. AND CODE CASE		CODE SYMBOL/		MANUFACTURER/
	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
NUTS	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			ALLIED 1991
MUIS	1	B31.1	1907	B31.7	1909	B31.7	1909			ADDIED 1991
BOLTS	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			ALLIED 1991
					<u> </u>					
		L	ļ		ļ	 		<u> </u>		···.
			ļ		ļ					
				ĺ		(·				

FORM NR-1 REPORT OF REPAIR M TO NUCLEAR COMPONENT	ODIFICATION Ø OR S AND SYSTEMS IN	INSTALLATION OF REPI NUCLEAR POWER PLAN	ACEMENT(S) [] ITS Page 1 of 5
Work performed byPublic Service Electric	& Gas Co Nuc	lear Dept. CJP	P91-072
1. Work partitions by	(name)		on's P.O. no., job. no.,etc.)
Foot of Buttonwood Road, Hancocks	Bridge, NJ 0803	8	
2 Owner <u>Public Service Electric and Ga</u>	ns Co		
	(name)		
Foot of Buttonwood Road, Hancocks		8	
Name, address and identification of nuclear power plant	(address)	onerating Station I	mit #1
Foot of Buttonwood Road, Hancocks			лис тт
4. System Service Water		1	Nuclear Class II
5. a: Component repaired, modified or replaced #13,14,15	Containment Fan	Coil Unit Penetrat:	ion Piping
b: Name of manufacturerPSE&G		Supp	orts, Hangers
c: Identifying nos. <u>See Attachments</u>			<u>Attachments</u>
(mfr's serial no.) (Nat'l.Bd.No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code <u>ANSI B31.7 1969</u> ANSI B31.1 1967 Edition) (ad	1970	(Code Case(s))	(Code Class)
ANST B31.1 1967 (2007) 6. Section XI	Summer 83	(Code Case(S))	N/A
(edition)	(addenda)		(Code Case(s))
7. Applicable edition of ASME Code Section XI under which repai	rs, modifications, or replace	ments were made: 1983	S83 N/A
	•	(edition)	(addenda) (Code Case(s))
8. Applicable edition of Construction Code under which repairs, m			1970N/A
	B31.7/ANSI B31.1	1967 Ed. (edition)	(addenda) (Code Case(s))
9. Design responsibilities PSE&G	gn pressure **pressu	re N/A psi Code Case	e(s) N/A
10. Tests conducted: hydrostatic pneumatic design			
		s) is acceptable if properly identified)	, , , , , , , , , , , , , , , , , , ,
			
12. Remarks: Work Order #: 910913118		ficiency Report #: 1	V/A
Design Change Package #: 1FC	:-3053 PKg. I	cmont N/A	
See attached pages for Descr	Temp. N/		
		Α	
CER	TIFICATE OF COMPLIAN	ICE	
NAV.	4		ahawa aa daama ta Caatiaa Vi
We certify that the statements made in this report are correct and the ASME Code and the National Board rules as defined in the p			above conforms to Section XI
. ·		. 3, 19 94 .	-
Date 9 - 8 19, 92 Signed PSE&G CONu		111	Principal Engr
(repair orga	anization)	(authorized representative)	(title)
			
CEF	RTIFICATE OF INSPECTION	ON	
I, the undersigned, holding a valid commission issued by The Natio			
the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state or province of <u>New Jersey</u> and employed by the state of the s		t Mutual Insurance (and state that to the
of MA have inspected the repair, modification or replace best of my knowledge and belief, this repair, modification or replace			
Board rules as defined in the publication NB-102, current edition.			
expressed or implied, concerning the repair, modification or replace			
liable in any manner for any personal injury or property damage or	a loss of any kind arising fro		
		Factory I	Mutual System

(Natl.Bd.No.(including endorsements) state or province and number)

CJP NO.: P-91-07

DATE: DECEMBER 11,1991

W.O. NO.:910913118

WORKING COPY CJP

SALEM 1

		DES. CODE & YR.		FAB. CODE & YR. AND CODE CASE		INST. CODE & YR.		CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	
P-15SWG-8	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PSE&G 1974
P-13SWG-13	tt	98	11	99	90	••	••			PSE&G 1992
P-15SWG-7	••	н	"	11.	н	11	10			PSE&G 1974
P-13SWG-14	11	10	"	•••	10	11	"			PSE&G 1992
P-13SWG-8	10	11		11	••	11	11			PSE&G 1974
P-14SWG-19	"	н	<u> "</u>	11	11	11	11			PSE&G 1992
P-13SWG-6	"	"	li li	#	11	н	**			PSE&G 1974
P-14SWG-20	11	11	11	99	"	.,	91			PSE&G 1992
P-11SWG-25	"	н	<u> </u>	11	"		10			PSE&G 1974
P-15SWG-14	"	•••	"	11	***	н				PSE&G 1992
P-11SWG-24	11	11	"	00	••	88	99			PSE&G 1974
P-15SWG-15			"	"	••	n	••			PSE&G 1992
P-13SWH-12	98	11	••	"		11	10			PSE&G 1992
P-15SWH-16	PO	11	11	11	••	11	10			PSE&G 1992

CODE JOB PAC'

CJP NO.: P-91-072

DATE: DECEMBER 11,1991

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REVISION: _____0

W.O. NO.: 910913118

UNIT: SALEM 1

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		,		HUINK						r
		DES. CODE & YR. AND CODE CASE		FAB. CODE & YR. AND CODE CASE		INST. CODE & YR. AND CODE CASE		CODE SYMBOL/	\ 	MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
P-13SWH-15	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969	· · · · · · · · · · · · · · · · · · ·		PSE&G 1992
P-14SWH-21	••	11	10	99	99	60	60			PSE&G 1992
P-15SWH-16	89	**	11	00	"	88	00			PSE&G 1992
P-13SWH-3	11	60	**	"	••	91	61	<u> </u>		PSE&G 1975
د ۱۹	"	"	**	11	••	90	••			DELETED 1992
P-13SWH-4	11	11	**	11	01	60	10			PSE&G 1975
lf	11	11	11	99	"	H				DELETED 1992
P-14SWH-3	"	99	11	99	11	11	10			PSE&G 1975
11	"	99	**	11	••	H	11			DELETED 1992
P-14SWH-4	- 0	11	11	"	"	99	"			PSE&G 1975
11	10	11	"	H	,,	00	11			DELETED 1992

WORKING COPY CJP

SALEM 1

CODE JOB PACE

DATE: DECEMBER 11, 1991 PAGE 2B OF 7 REVISION: 0 W.O. NO.: 910913118

		DES. CODE		FAB. CODE		INST. C	ODE & YR. E CASE	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	CODE	YEAR	SERIAL NO.	NB NO.	YEAR
P-14SWH-5	II	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PSE&G 1975
	99	11	••	11	**	••	11		,	DELETED 1992
P-14SWH-6	89	11	11	11	11	t 8	**			PSE&G 1975
11	••	10		••	"	e 0	11			DELETED 1992
P-13SWG-5A,5B, 5C	99	11	99	tt		00	***			PSE&G 1991
11	11	11	11	H		11	.,			DELETED 1992
P-13SWG-7B	**	11	11	11		11				PSE&G 1991
н	н	88	10	11	89	••	"			DELETED 1992
P-14SWG-10B	11	***	10	11	••	н	11			PSE&G 1988
. 81	H	"	"	11	. 11	99	10			DELETED 1992
			·							
SPRING CANS	99	11	••	87	ea	90	11			PIPING SPECIALTIE
"U" BOLTS	80	11	11	••	11	89	11			BERGEN PATERSON 1991
									-	

REVISION:

W.O. NO.: 910913118

SALEM 1

WORKING COPY CJP

			110		501 1	001		بنغذ		
		DES. CODE		FAB. CODE		INST. C	ODE & YR. E Case	CODE SYMBOL/		MANUFACTURER/
OLD COMPONENT NEW COMPONENT	ASME CLASS	CODE	YEAR	CODE	YEAR	AR CODE	YEAR	SERIAL NO.	NB NO.	YEAR
HANGER RODS	II.	ANSI B31.1	1967	ANSI B31.7	1969	ANSI B31.7	1969			PIPING SPECIALITES 1991
·										
NUTS	"	99	11		**	11	••			PIPING SPECIALITES 1991
INT DE BOO. BUB									<u> </u>	
WELDLESS EYE NUTS	89	#	н	•	00	·i ·				PIPING SPECIALITES 1991
BEAM ATTACHMENTS	. "	н	н	19	n	11	**			PIPING SPECIALITES
				<u> </u>	<u> </u>					

FORM N	R-1 REPORT OF REP TO NUCLEAR COI	PAIR MODIFICAMPONENTS AND S	ATION Ø OR IN SYSTEMS IN NU	STALLATION OF RE	PLACEMENT(S) ANTS Page 1 of 3
4 Minds portament his	Dallie Coming		On Mission	are Dant CTD	#D02_010
1. Work performed by	Public Service	ELECTIC & Gas	(name)	-	#P92-010 ation's P.O. no., job. no.,etc.)
Foot of But	ttorwood Road, H	anoroka Bridge	• •	(repair organiz	audit's P.O. no., job. no.,etc./
FLOC OF BU	_CONTRACTOR SCHOOL	arrans pringe,	(address)		
2. Owner Public	Service Electric	c and Gas Co.	,		
			(name)		
Foot of But	ttonwood Road, H	ancocks Bridge			
			(address)		1. 11.
	entification of nuclear power			erating Station	Unit-#1
	ttonwood Road, H		NJ 08038		Nuclear Class II
	Generator Blowded, modified or replaced 1		receipted SI	morts	NUCTEAL CLASS II
b: Name of manufactu		IGDS VALVE & A	SCHALER DU	MOLES	
	See Attachments				
• •		at'l.Bd.No.) (jur	isdictional no.)	(other)	(year built)
d: Construction Code	See Attachment	s			
	(edition)	(addenda)		(Code Case(s))	(Code Class)
6. Section XI	1983	Sur	mer 83		N/A
	(edition)		(addenda)		(Code Case(s))
7. Applicable edition of A	SME Code Section XI unde	er which repairs, modific	ations, or replaceme		<u>S83N/A</u>
				(edition)	(addenda) (Code Case(s))
8. Applicable edition of C	onstruction Code under wh	ich repairs, modification	s, or replacements v		cachments 72
9. Design responsibilities	DODGC			(edition)	(addenda) (Code Case(s))
10. Tests conducted: hydro		design pressure	e ** pressure	1400 psi Code Ca	se(s) N-416
11. Description of work				ied associated su	
				s acceptable if properly identified	
					
/					4-
· · · · · ·	Order #: 911015			ciency Report #:	N/A
	gn Change Packag				<u>. </u>
See a	attached pages for	or Description	or Kebracem	ent.	
**503	stem Inservice T	est Perionmed	MOP Temp.	: 83_F	
		CERTIFICATE	OF COMPLIANCE	E	
		OLA III IOA I L	OI OOMII EIAMO		
We certify that the stateme	ents made in this report are	correct and the repair, r	nodification or repla	cement of the items describe	ed above conforms to Section XI
of the ASME Code and the					
Certificate of Authorization	no 36 _ to	use the "NR" stamp exp	ires Oct.	3, , 19 94 .	-
	A DOPE	G CoNuclear 1)ont	1111	Principal Engr
Date 921 19, 9	22. Signed PSE&	G CONuclear	ept. /	why for	Pincipal Eigi
		(repair organization)		(authorized representative)	(title)
				· · · · · · · · · · · · · · · · · · ·	
		CERTIFICATE	OF INSPECTION	l	
		·			
					ertificate of competency issued by
the state or province of	New Jersey an	· · · · · · · · · · · · · · · · · · ·		Mutual Insurance	43
	nspected the repair, modified	•			972 and state that to the ASME Code and the National
				er the Inspector nor his emp	
	•				spector nor his employer shall be
	•	•		or connected with this inspe	
_		•			Mutual System
109 4-14 109	2 Signed James	19.12.	Come	missions NJ373	- <i>i</i>

(inspector)

(Natl.Bd.No.(including endorsements)state or province and number)

	Work performed by:			ctric & Gas C Road, Hancoc		
2.	Owner:	Public Serv	ice Elec	ctric & Gas C	0.	•
3.	Location:			Road, Hancoc rating Statio		J 08038
э.	bocacion:			Road, Hancoc		J 08038
4.	System: <u>Steam Gene</u>					
			-		_	
====						
ID O	of Component Replace of Manufacturer:	d: <u>11GB3</u>				
	0416 N/A	N/A	N/A	1973	Yes	
Seri	ial No. Nat'l. Bd.	Jurist No.	Other	Year Built		Stamp'd.?
Orig	inal Const. Code: A	SME Sec. 3 19	971 Ed:	ition W71 A	ddenda, Code	Class 2
Code	Cases: <u>N/A</u> A	NSI B31.7 19	69 Ed. :	1970 Add.		
ID O	of Replacement: <u>11G</u> e of Manufacturer: _	B3 Edwards				
C191	L1FJOTY-XW-7_N/A	N/A	N/A	1991	Yes	
Seri	lal No. Nat'l. Bd.	Jurist No.	Other	Year Built		Stamp'd.?
	lacement Const. Code					
	cases:N/A					
						
ID o	of Component Replace	d:				
Name	e of Manufacturer: _					 _
ri	al No. Nat'l. Bd.	Jurist No	Other	Vear Built	ASME Code	Stampld ?
	ginal Const. Code:					
Code	Cases:					
ID o	of Modified: <u>1C-</u>	BDS-34				
	of Manufacturer:					
		N/A		<u>N/A</u>	No	
	al No. Nat'l. Bd.				ASME Code	
	acement Const. Code			Edition 1970	Addenda, Co	de Class 2_{-}
Code	Cases: <u>N/A</u>	ANSI B31.7	1969			
====	,					
ID o	of Component Replace	3 -				,
	of Manufacturer:					
			<u> </u>			
Seri	al No. Nat'l. Bd.	Jurist No.	Other	Year Built	ASME Code	Stamp'd.?
Orig	inal Const. Code: _		Ed:	ition Ad	ddenda, Code	Class
Code	0					
	of Modified: 1C-BD		<u> </u>	- 		
	e of Manufacturer:	N/A	N / A	1992	No	
	N/A Nat'l. Bd.	Jurist No	Other	Vear Ruilt	ASME Code	Stampid ?
Renl	acement Const. Code	ANST R31.1	1967	Edition 1970	Addenda Co	de Class 2
Code	Cases: N/A	ANSI B31.7	1969	22202011 <u>2270</u>		<u> </u>
						
			<u> </u>			/

ID of Component Replace	Public Service Electric & Gas Co., Nuclear Dept. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Public Service Electric & Gas Co. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Salem Nuclear Generating Station Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 rator Blowdown Nuclear Class: 2
Original Const. Code: _	Jurist No. Other Year Built ASME Code Stamp'd.? Edition Addenda, Code Class
ID of Modified: _1C- Name of Manufacturer: _ N/A	BDS-35 Support PSE&G N/A N/A 1992 No Jurist No. Other Year Built ASME Code Stamp'd.? : ANSI B31.1 1967 Edition 1970 Addenda, Code Class 2 ANSI B31.7 1969
ID of Component Replace Name of Manufacturer: erial No. Nat'l. Bd. Original Const. Code:	Jurist No. Other Year Built ASME Code Stamp'd.? Edition Addenda, Code Class
	Jurist No. Other Year Built ASME Code Stamp'd.? Edition Addenda, Code Class
ID of Component Replace	d:
Original Const. Code: _	Jurist No. Other Year Built ASME Code Stamp'd.? Edition Addenda, Code Class
ID of Replacement:	
	Jurist No. Other Year Built ASME Code Stamp'd.? Edition Addenda, Code Class

FORM NR-1 REPORT OF REPAIR	☐ MODIFICATION BOR	INSTALLATION OF REPLA	CEMENT(S)
TO NUCLEAR COMPON	IENTS AND SYSTEMS IN	NUCLEAR POWER PLANTS	Space 1 of 2

1. Work performed by	Public Servi	œ Electric &	Gas Co Nuc	lear Dept.	CJP #	P92-011	
			(name)		repair organizati	on's P.O. no., job	. no.,etc.)
Foot of B	uttonwood Road	, Hancocks Br	idge, NJ 0803	8			<u>·</u>
0.0000 50134	- Carrier Dlas		(address)				
2. Owner <u>Public</u>	Service Flec	cric and Gas	(name)				
Took of D	uttonwood Road	Unnacoke Pre	, ,	D D			
	Tricoliwood Road	, naiktiks bi.	(address)				
3. Name, address and i	dentification of nuclear	nower plant S	•	enerating S	tation I	mit #1	_
			idge, NJ 0803		04010		
4. System Steam		•			N	Auclear Cl	ass II
5. a: Component repair							
b: Name of manufac							
c: Identifying nos.	See Attachmen	ts					
	(mfr's. serial no.)	(Nat'l.Bd.No.)	(jurisdictional no.)	(other)	O	year built)
d: Construction Cod	e See Attachm	ents	<u> </u>				
	(edition)	(addend	da)	(Code Case)	(S))	(Code (Class)
6. Section XI	1983		Summer 83				N/A
	(edition)		(addenda)			(Code Case	∌(s))
7. Applicable edition of	ASME Code Section X	l under which repairs, r	modifications, or replace	ements were made	1983	<u>\$83</u>	<u>N/A</u>
	•	•			(edition)	(addenda)	(Code Case(s))
8. Applicable edition of	Construction Code und	er which repairs, modil	fications, or replacemen	ts were made:	<u> *See A</u> tta	<u>ichments</u>	_72
	•				(edition)	(addenda)	(Code Case(s))
Design responsibilitie	s PSE&G		 				
10. Tests conducted: hyd			ressure 🗌 ** pressu	· - · - ·	Code Case	e(s) <u>N−416</u>	<u>`</u>
11. Description of work	Replaced va	<u>lve with valve</u>	<u>e of new desig</u>	n			
		(use of add	litional sheet(s) or sketch(e	s) is acceptable if pro	perly identified)		
							
	· · · · · · · · · · · · · · · · · · ·						
	k Order #: 911			ficiency Rep	port #: N	I/A	
	ign Change Pac						
See	attached page	s for Descrip	tion of Replac	ement.			
**\$	ystem Inservic	e lest Perion	med @ NOP Tem	p.: 81 F			
•		A-557-5		105			
,		CERTIF	ICATE OF COMPLIAN	ACE			
We certify that the staten					ems described	l above conform	is to Section Xi
of the ASME Code and the	·						
Certificate of Authorization	on no36	to use the "NR" star	mp expires OCT	<u>. 3,</u> , 19 <u>94</u>	·		
Date 9-25 19,	92. Signed	SE&G CoNucl	ear Dept.	SSLIE	ر درگ	Princ	cipal Engr
		(repair organiza	ation)	(authorized re	oresentative)		(title)
		050715	COATE OF MODEOTI	ON.			
	•	CEHIIF	FICATE OF INSPECT	ON			
1 AL			D			A'C' 4 4	
I, the undersigned, holding	-						etency issued by
the state or province of _				t Mutual In			
	•		nent described in this re	-	_	92and sta	
best of my knowledge an	•						
Board rules as defined in	•	-					-
expressed or implied, cor							npioyer shall be
liable in any manner for a	iny personal injury or pi	roperty damage or a lo	ss of any kind ansing fro				ztom
8-15	92		1.		COOLY I	Mutual Sys	
e 8-25, 19	/ Signed /	me/ 2 Co	CC	ommissions	duding codes		
	/	(inspector)		(Nau.ubd.noi)	uuaing endorsei	ments)state or pro	ovince and number)

2.	•	erformed	_	Public Ser Foot of Bu Public Ser	ttonwood vice Ele	Road, 1	Hancock Gas Co	ks Bridg	e, NJ	08038	
3.	Location	on:		Foot of Bu	ear Gene	rating S	Station	າ	•		
4.	System	<u>Steam</u>	Gene	Foot of Burator Blowd	own	1	Nuclear	Class:	II		
TD c	of Compo	onent Rei	placed	1: <u>12GB3 V</u>	alve						==
Name	of Mai	nufactur	er: _\	/elan		1050	······································	 -			
0421	-1 170	N/A	D.4	Velan N/A Jurist No.	N/A_	<u> 1973</u>	D. 414	Yes	0-4-	C+ 1 d	
Seri	al No.	Nat'I.	Bu.	Jurist No.	Otner	year	BUILT	ASME	Code	Stamp'd.	
OFIG	inai C	onst. Co	1e: A:	ME Sec.III	19/1 Ed	10101 <u>w</u>	<u>/ l</u> AC	idenda,	Code	Class Z	
Code	cases	<u>N/A</u>	Ar	NSI B31.7 1	969 Ed.	19/0 Add	1.				
ID c	of Repla	acement:	_12GI	33 Valve							
Mame	TETORY.	_VW12 N/	×	N/X	N / N	1991		Yos			
CIPI	TIOOTI.	Natil	<u> </u>	Edwards N/A Jurist No.	N/A Other	_ <u>1991</u>	P11 i 1+	ACME	Codo	Stampld	
Devi	ar No.	rac 1.	Code:	ASME Sec.	TTT 1071	Fdition	n W71	Addenda	Cod	o Class	•
Coge	Cacemen	·N/A	coue.	ANSI B31.	7 1060 F	1 1970	744 11 11/1	Addenda	, cou	e Class	ے_
Code	cases	· 11/A	·	WINDT DOT.	/ 1909 E	<u> 1970</u>	<u>nuu.</u>				
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Tame	of Mai	nifactur	prace.	d:		·					
ame	OI Mai	naractur.			 						
Orig	inal Co	onst. Cod	de:	Jurist No.	Ed	${ t ition}$ $_$	Ad	ldenda,	Code	Class	?
Code	Cases	·						 .			
ID c	of Repla										
Repl	acement	t Const.	Code:	Jurist No.		Edition	Built	ASME Addenda	Code , Cod	Stamp'd. e Class	?
Code	Cases:	·									
÷											
											===
Name	of Composition	onent Rep nufacture	er:	1:							
Seri Orig	al No.	Nat'l.	Bd. de:	Jurist No.	Other Ed	Year	Built Ad	ASME denda,	Code Code	Stamp'd. Class	?
Code	Cases										
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<u> </u>	27 372	Not 13	- B-d	Tunia t	0+4		D11:14	A CME	Cod 5	C+nm=1d	
Repl	acement	t Const.	Code	Jurist No.		Edition	n	Addenda	, Cod	e Class	

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1 of 2

1. Work performed by	Public Servi	ice Electric	& Gas Co N	uclear Dept.	CJP	#P92-012	
			(name)	_	(repair organizat	ion's P.O. no., job	. no.,etc.)
Foot_of F	suttonwood Road	i, Hancocks B	ridge, NJ 08	038			
			(address)				
2. Owner <u>Publi</u>	ic Service Elec	ctric and Gas					
: Dark - 6 F			(name)	030			
FOOT OF E	Buttonwood Road	1, Hancocks B	(address)	038			
2 Name address and	identification of nuclear	newer plant -	•	Conorating	Station	Imit #1	
	Buttonwood Road				<u>Deacton</u>	OILL WI	
	am Generator Bl		trage, to ou			Nuclear C	lass II
	ired, modified or replace		e & Associate	d Supports			
	cturer <u>Velan</u>						
	See Attachmer	nt					
	(mfr's. serial no.)	(Nati.Bd.No.)	(jurisdictional no.)	(oth	ner)	O	year built)
d: Construction Cod	le <u>See Attachr</u>	ments				2	
	(edition)	(adder	nda)	(Code Cas	se(s))	(Code (Class)
6. Section XI	1983		Summer 83				N/A
	(edition)		(addenda)		~	(Code Case	∌(s))
7. Applicable edition of	ASME Code Section XI	under which repairs,	modifications, or repla	acements were mad	le: <u>1983</u>	_ <u>S83</u>	<u>N/A</u>
					(edition)	(addenda)	(Code Case(s))
8. Applicable edition of	Construction Code und	er which repairs, mod	lifications, or replacem	ents were made: _	<u> *See A</u> tt	achment	_72
	•	·			(edition)	(addenda)	(Code Case(s))
9. Design responsibilitie	es <u>PSE&G</u>				· 		
10. Tests conducted: hyd			pressure **pre			e(s) <u>N-41</u>	6
11. Description of work	Replaced va					clated	
		(use of ac	Iditional sheet(s) or sketc	h(es) is acceptable if p	roperly identified)		
supports.							
12. Remarks:Wor	rk Order #: 911	1015330		Deficiency F	Percert #.	N/A	
	sign Change Pac			THE TELEVA	ELAT C H	W.A	
	e attached page			acement.			
	System Inservi				·		
	// Seculi Library 10	æ ræc rerre	21102 6 1.02 20				
		CERTI	FICATE OF COMPL	ANCE			
We certify that the stater	nents made in this repo	rt are correct and the	repair, modification or	replacement of the	items described	above conform	s to Section XI
of the ASME Code and t	•						- !
Certificate of Authorization	•	to use the "NR" sta	_	ct. 3, 19 9	94 .		
						Paris	ainal Franc
Date 8/1 19,	$9 u$ Signed 1	PSE&G CoNuc	lear Dept.	Ments		Prin	cipal Engr
		(repair organi	zation)	(authorized	representative)	- 	(title)
	•	CERTI	FICATE OF INSPEC	TION			
			15 1 (5)			ate a e	
I, the undersigned, holding	•	•		ght Mutual]			etency issued by
the state or province of _		and employed by _				7	
	e inspected the repair, n						ate that to the
best of my knowledge ar	· · · · · · · · · · · · · · · · · · ·						
Board rules as defined in							
expressed or implied, co	•						nproyer snall be
liable in any manner for a		roperty damage or a l	uss or any who ansing	nom or connected		^{non.} Mutual Sy	stem /
a 8-24, 19	92 sizza (/a	and E. land		Commissions A	1.5.373		- /
19	Signed \	(Inspector)		· · · · · · · · · · · · · · · · · · ·	(including endorse	ments)state or pre	ovince and number)
		()	·	(1700.00.140.1			wie nember)

1.	Work performed by:	Public Service Electric & Gas Co., Nuclear Dept.
_	_	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
2.	Owner:	Public Service Electric & Gas Co.
_	- 	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
3.	Location:	
		Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
4.	System: <u>Steam Gene</u>	erator Blowdown Nuclear Class: 2
		_ _ _ _
====		;=====================================
ID c	of Component Replace	ed: 13GB3 Valve
Name	e of Manufacturer:	<u>Velan</u>
0432	2N/A	N/A N/A 1973 Yes Jurist No. Other Year Built ASME Code Stamp'd.?
Seri	ial No. Nat'l. Bd.	Jurist No. Other Year Built ASME Code Stamp'd.?
Orig	ginal Const. Code: ½	ASME Sec.III 1971 Edition W71 Addenda, Code Class 2
Code	e Cases: <u>N/A</u>	ANSI B31.7 1969 Ed. 1970 Add.
ID c	of Replacement: <u>130</u>	B3 Valve
Name	e of Manufacturer:	<u>Edwards</u>
<u>C191</u>	L1FJOTY-XW14 N/A	N/A N/A 1991 Yes Jurist No. Other Year Built ASME Code Stamp'd.?
Seri	ial No. Nat'l. Bd.	Jurist No. Other Year Built ASME Code Stamp'd.?
Repl	lacement Const. Code	e: <u>ASME_Sec.III_1971</u>
Code	e Cases: <u>N/A</u>	ANSI B31.7 1969 Ed. 1970 Add.
====	=======================================	
ID c	of Component Replace	ed: <u>'</u>
	e of Manufacturer:	
	-	
Seri	al No. Nat'l. Bd.	Jurist No. Other Year Built ASME Code Stamp'd.?
Oriq	ginal Const. Code:	Edition Addenda, Code Class
	Cases:	
ID c	of Modified: <u>1C</u>	-BDG-123 Support
Name	of Manufacturer:	PSE&G .
N/A	N/A	N/A N/A 1982 No
Seri	al No. Nat'l. Bd.	N/A N/A 1982 No Jurist No. Other Year Built ASME Code Stamp'd.?
Repl	acement Const. Code	e: ANSI B31.7 1969 Edition 1970 Addenda, Code Class 2
		ANSI B31.1 1967 Ed./ASME Sec. III NF 1983 S84 NCI
Code	cuses. <u>N/A</u>	ANDI DII:I 1907 Ed./ADML Dec. 111 MT 1903 D04 MCI
TD C	of Component Benlage	ed:
Your	of Manufacturer:	·
Name	or Manuracturer:	
	21 72 7217 74	Turist Va Other Very Built 10VF Code Cterrild 2
Seri	lai no. Nat'i. Bo.	Jurist No. Other Year Built ASME Code Stamp'd.?
		Edition Addenda, Code Class
Code	e Cases:	_ ,
		,
	of Modified: <u>1C</u>	
	e of Manufacturer:	
N/A	-	
	<u>N/A</u>	
Serī	N/A lal No. Nat'l. Bd.	Jurist No. Other Year Built ASME Code Stamp'd.?
Seri Repl	N/A Nat'l. Bd. acement Const. Code	Jurist No. Other Year Built ASME Code Stamp'd.? e: ANSI B31.7 1969 Edition 1970 Addenda, Code Class 2
Seri Repl	N/A Nat'l. Bd. acement Const. Code	Jurist No. Other Year Built ASME Code Stamp'd.?

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTAIL TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLE TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLE TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLE		
1. Work performed by <u>Public Service Flectric & Gas Co Nuclear</u> (name)	-	#P92-013 ation's P.O. no., job. no.,etc.)
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)		···
2 Owner Public Service Electric and Gas Co.		
(name)		
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)		
Name, address and identification of nuclear power plantSalem_Nuclear General	ting Station	Imit #1
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	one outlin	<u> </u>
4. System Steam Generator Blowdown		Nuclear Class II
5. a: Component repaired, modified or replaced 14GB3 - Valve		
b: Name of manufacturerVelan		
c: Identifying nos. See Attachment		
(mfr's. serial no.) (Narl.Bd.No.) (jurisdictional no.)	(other)	(year built)
d: Construction Code <u>See Attachment</u>		2
(edition) (addenda) (C	Code Case(s))	(Code Class)
6. Section XI Summer 83		N/A
(edition) (addenda)		(Code Case(s))
7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements we	ere made: _ 1983	S83 N/A
	(edition)	(addenda) (Code Case(s)
8. Applicable edition of Construction Code under which repairs, modifications, or replacements were m	nade: *See At	tachment 72
	(edition)	(addenda) (Code Case(s)
9. Design responsibilities PSE&G		
 Tests conducted: hydrostatic	400 psi Code Ca	se(s) N-416
11. Description of work <u>Replaced valve with valve of new design.</u>		
(use of additional sheet(s) or sketch(es) is accep	table if properly identified)
/		
12 Remarks Work Order #: 911015243 Deficie	ncy Report #:	_N/A
Design Change Package #: 1EC-3133 Pkg. 1 NOP		
See attached pages for Description of Replacement	· 	
** System Inservice Test Performed at NOP Temp. 79	9°F	
OFFICIATE OF COMPLIANCE		,
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in this report are correct and the repair, modification or replacement	nt of the items describe	ed above conforms to Section XI
of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.	04	-
Certificate of Authorization no. <u>36</u> to use the "NR" stamp expires <u>Oct. 3,</u>	1994	
PSE&G CoNuclear Dept.	n	Principal Eng
Date KIVI 19,7C Signed		
(repair organization) (aut	thorized representative)	(DDe)
·		
CERTIFICATE OF INSPECTION		
	esal Inspartate and a	artificate of composency issued h
the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Versey and employed by Arkwright Muti		

	CERTIFICAT	E OF INSPECTION
		of Boiler and Pressure Vessel Inspectors, and certificate of competency issued b
the state or province of New	Jersey and employed by	Arkwright Mutual Insurance Co
of MA have inspected t	he repair, modification or replacement d	escribed in this report on 6-11, 1992 and state that to the
best of my knowledge and belief, this	repair, modification or replacement has	been made in accordance with Section XI of the ASME Code and the National
Board rules as defined in the publicat	tion NB-102, current edition. By signing	this certificate, neither the Inspector nor his employer makes any warranty,
expressed or implied, concerning the	repair, modification or replacement des	cribed in this 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 a	ny kind arising from or connected with this inspection.
		Factory Mutual System
te $8^{-\frac{7}{2}}$ 19 $\frac{9}{2}$ Sig	ned James El	Factory Mutual System Commissions 15373
	(Inspector)	(Natl Rd No (including endorsements) state or province and number

•	-	Public Service Electric & Gas Co., Nuclear Dept. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
2.	Owner:	Public Service Electric & Gas Co.
3.	Location:	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Salem Nuclear Generating Station Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
4.	System: <u>Steam Gener</u>	rator Blowdown Nuclear Class: 2
ID o	f Component Replaced	i: 14GB3 Valve
Name	of Manufacturer:	VelanN/A1973YesJurist No. Other Year Built ASME Code Stamp'd.?
<u>0438</u>	al No Nat'l Bd	Jurist No. Other Vear Built ASMF Code Stamp!d ?
Orion	inal Const Code: As	SME Sec III 1971Edition W71 Addenda Code Class 2
Code	Cases: N/A A	NSI B31.7 1969 Ed. 1970 Add.
		B3 Valve
Name	of Manufacturer: 1	Edwards N/A N/A 1991 Yes
C191	1FJOTY-XW-8 N/A	<u>N/A</u>
Seria	al No. Nat'l. Bd.	Jurist No. Other Year Built ASME Code Stamp'd.?
Kepta	acement Const. Code:	: ASME Sec. III 1971Edition W71 Addenda, Code Class 2 ANSI B31.7 1969 Ed. 1970 Add.
Coue	cases. <u>N/A</u>	ANST B31.7 1909 Eq. 1970 Add.
ID o	f Component Replaced	i:
ame	of Manufacturer:	
seri	al No. Nat'l. Bd.	Jurist No. Other Year Built ASME Code Stamp'd.?
Orig:	inal Const. Code:	Edition Addenda, Code Class
Code	Cases:	
Name	of Manufacturer:	
		Jurist No. Other Year Built ASME Code Stamp'd.?
Repla	acement Const. Code:	Edition Addenda, Code Class
Code	Cases:	
====	=======================================	
	f Component Replaced	
Name	of Manufacturer:	
Seria	al No. Nat'l. Bd.	Jurist No. Other Year Built ASME Code Stamp'd.?
Orig	inal Const. Code:	Edition Addenda, Code Class
Code	Cases:	
Name	of Manufacturer:	
	·	
Seri	al No. Nat'l. Bd.	Jurist No. Other Year Built ASME Code Stamp'd.?
Repla	acement Const. Code:	Edition Addenda, Code Class
		-

FORM NR-1 REPORT OF REPAIR - MODIFICATION - OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Poot of Brittonsood Read, Harmonics Bridge, MI 08038 2. Owner Public Service Electric and Gas On - Nuclear Dept. Poot of Brittonsood Road, Harmonics Bridge, NI 08038 1. Name address and identification of nuclear power plant Salem Cenerating Station Unit #1 Poot of Brittonsood Road, Harmonics Bridge, NI 08038 1. Identification of system Safety, Injection - Nuclear Class I 5. Identification of system Safety Injection - Nuclear Class I 5. Identification of component repaired, modified or repisced CCCC-SN901 - Snubber D. Name of manufacturer Pactific Scientific Company C. Identifying nos. 32 - White Institute States I	1. Work performed by Public Service Electric & Gas Co. Nuclear Dept., Code Job Pkg. #S91-074	
2 Owner Public Service Electric and Gas Co Nuclear Dept. Foot. of Buttonwood Road, Hancocks Bridge, NT 08038 3. Name, address and identification of nuclear power plant Salem Cenerating Station Unit #1 Foot. of Buttonwood Road, Hancocks Bridge, NT 08038 4. Identification of component repaired. Modified or replaced IC-CVC-SN901 - Shubber b: Name of mean/seture Pacific Scientific Company c: identifying nos 321. N/A N/A 1974 c: identifying nos 321. N/A N/A 1974 6. Applicable section(s) XI of ASME Code. 19.83 addition_Summer_addenda_1983	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	_
3. Name, address and identification of nuclear power plant Foot. of. Buttonscood Road, Bancocks Bridge, NI 08038 4. Identification of system Safety Injection — Nuclear Class I 5. Identification of component realing, modified or replaces 1. CCVC-SR901 — Shubber b. Name of manufacturer — Pacific Scientific Company c. Identifying nos. 321 M/A N/A N/A N/A 1974 generating nos 325 Code Case N/A 6. Applicable section(s). XI of ASME Code, 19.83 edition. Summer: addened 1983 — Code Case N/A 7. Design responsibilities — BEEG 8. Tests conducted: hydrostatic — pneumatic — design pressure — pressure — psi. N/A 9. Description of work — Replaced shubber S/A 321 with S/A 26130. Original Construction Code — Edition — Addenda — Code Cases N/A N/A — N/	2. Owner Public Service Electric and Gas Co Nuclear Dept.	-
Foot. of. Buttonwood Road, Bancocks Bridge, NJ 08038 4 Identification of system Safety Injection — Nuclear Class I 5 a Identification of component repaired, modified or replaced IC-CVC-SN901 — Shubber b: Name of manufacturer — Pacific Scientific Company c: Identifying nos. 321 — Intelligence — N/A — N/A — N/A — 1974 6. Applicable section(s). XI — of ASME Code, 19.83 — edition. Summer — addenda 1983 — Code Case N/A 7. Design responsibilities — SSEG 8. Tests conducted: hydrostatic — pneumatic — design pressure — pressure — psi. N/A 9. Description of work _ Replaced shubber _ S/N 321 with S/N 26130. Original Construction Code — Patition — Addenda — Code Cases — N/A — N/	Foot of Buttonwood Road, Hancocks Bridge, NT 08038	-
5. a: Identification of component repaired, modified or replaced LOC-CVC-SN901 - STAIRber b: Name of manufacturer Pacific Scientific Company c: Identifying nos 321 N/A N/A N/A 1974 6. Applicable section(s) XI of ASME Code, 19.83 edition, Staimer addenda 1983 Code Case N/A 7. Design responsibilities RSEAG 7. Design responsibilities RSEAG 8. Tests conducted: hydrostatic pneumatic design pressure pressure psl. N/A 9. Description of work Replaced Stubber S/N 321 with S/N 26130. Original Construction Code Rilition Addenda Code Cases N/A		- -
b: Name of manufacturer Pacific Scientific Company c: Identifying nos 321 N/A N/A N/A 1974 6. Applicable section(s) XI of ASME Code, 19. 83 edition_Simmer addenda_1983 Code Case.N/A 7. Design responsibilities FSEG 8. Tests conducted: hydrostatic = pneumatic = design pressure = pressurepsl. N/A 9. Description of work_Replaced_Stubber_S/N_321_with_S/N_26130. Original Construction Code Bilition Addenda_Code_case.N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	4. Identification of system Safety Injection - Nuclear Class I	_
C: Identifying nos 321. With Sensi (surindecineal nos) (content) (per bellif) 6. Applicable section(s): XI		-
Mart But and Mart		-
Separates to the section of the ASME Code, 19.83 edition. Stromet. addenda 1983 code Case N/A Description of work. Replaced shubber S/N 321 with S/N 26130. Original Construction Code Faition Addenda Code Cases N/A N/A N/A N/A 10. Replaced #901119016 Deficiency Report # N/A Identification of Replacement: 1 Kip Shubber Name of Manufacturer: Pacific Scientific Identifying Nos.: Part No. 1881102-05 ASME Code Mfr's Serial No. Nat'l Bd. No. Jurisdictional No. Other Year Built (Yes/No) 26130 N/A N/A N/A 1987 Y Replacement Construction Code Edition Addenda Code Cases ASME Sec. III 1974 Summer 1976 1648-4 We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement conforms to the applicable section of the ASME Code. Certificate of Authorization no. 36 to use the "NF" stamp exprises Oct. 3. 19.94 Signed EBEAG Co. "Niclear Dept. Launcheo Representation of the ASME Code. Certificate of Authorization available of the ASME Code. In the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspection, and certificate of competency issued by the state or province of New Jersey and employed by Arksmight Mutual Insurance constructed in accordance with Section XI of the ASME Code and the National Board of Boiler and Pressure Vessel Inspectors, and certificate of constructed in accordance with Section XI of the ASME Code and the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arksmight Mutual Insurance Constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication Not 10 current of the ASME Code and the National Board rules as defined in the publication Not 10 current of the ASME Code and the National Board rules as defined in the publication Not 10 current of the ASME Code and the National Board rules as defined in the publication Not 10 current of t		-
7. Description of work Replaced strubber S/N 321 with S/N 26130. 9. Description of work Replaced strubber S/N 321 with S/N 26130. Original Construction Code Raittion Addenda Code Cases N/A N/A N/A N/A 10. Remarks: Work Order #901119016 Deficiency Report # N/A Identification of Replacement: 1 Kip Snubber Name of Manufacturer: Pacific Scientific Identifying Mas.: Part No. 1881102-05 ASME Code Mfr's Serial No. Nat'l Bd. No. Jurisdictional No. Other Year Built (Yes/No) 26130 N/A N/A N/A 1987 Y Replacement Construction Code Edition Addenda Code Cases ASME Sec. III 1974 Sammer 1976 1644-4 We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement conforms to the applicable section of the ASME Code. Certificate of Authorization no. 36 to use the 'NF' stamp exprises Oct. 3. 19 94 Signed PSEAG CoNuclear Dept. We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement conforms to the applicable section of the ASME Code. Certificate of Authorization no. 36 to use the 'NF' stamp exprises Oct. 3. 19 94 Signed PSEAG CoNuclear Dept. We certify that the state or province of New Jersey and employed by Arksoright: Natural Insurance Conforms to the application of the ASME Code and the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arksoright: Natural Insurance Conformation of the ASME Code and the National Board of the ASME of the ASME Code and the National Board of the ASME of the ASME Code and the National Board of the ASME in the publication or replacement described in this report on Jersey and the publication or replacement described in this report on Jersey and the	· · · · · · · · · · · · · · · · · · ·	
8. Tests conducted: hydrostatic = pneumatic = design pressure = pressure = psi. N/A 9. Description of work Replaced structure S/N 321 with S/N 26130. Original Construction Code		-
9. Description of work Replaced shubber S/N 321 with S/N 26130. Original Construction Code Rilition Addenda Code Cases N/A N/A N/A 10. Remarks: ('U') Work Order #901119016 Deficiency Report # N/A Identification of Replacement: 1 Kip Shubber Name of Manufacturer: Pacific Scientific Identifying Nos.: Part No. 1881102-05 ASME Code Stamped Mfr's Serial No. Nat'l Bd. No. Jurisdictional No. Other Year Built (Yes/No) 26130 N/A N/A N/A 1987 Y Replacement Construction Code Edition Addenda Code Cases ASME Sec. III 1974 Summer 1976 1644-4 We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement Conforms to the applicable section of the ASME Code. Certificate of Authorization no. 36 to use the "NF" stamp expires Oct. 3, 19 94 Signed PSEAG CO. "Nuclear Dept." (recorrespondance) (recorrespondance) CERTIFICATE OF INSPECTION I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Matcual Insurance Co of Norwood, MA have inspected the repair, modification or replacement described in this report on 10-70 1921 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition. Palacement described in this report. Furthermore, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification placement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or properly damage or less of any kind aligning from or connected with this inspection. Takes and the state of any kind aligning from or connected with this inspection. Takes and the state of any kind aligning from or co		-
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of NOTWOOD, MA have inspected the repair, modification or replacement described in this report on 19-30 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition. Busing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification placement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or properly damage or loss of any kind alising from or connected with this inspection. Factory Mutual System Date 12-14 1991 Signed Marks 2: Commissions NJ 373	I the undersigned helding a valid commission issued by The National Roard of Roiler and Pressure Vessel Inspectors, and cartificate of com-	١_
on 19-70 19-41 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition. Busing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification placement described in this 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 alising from or connected with this inspection. Factory Mutual System Date 12-14 1991 Signed Make 2: Commissions 1373	I the undersigned helding a valid commission issued by The National Roard of Roiler and Pressure Vessel Inspectors, and cartificate of com-)-
constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification placement described in this 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 alising from or connected with this inspection. Tactory Mutual System Date 12-14 1991 Signed Amb 2: Commissions 1373	I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co	
placement described in this report. Furthermore, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification placement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury property damage or loss of any kind alising from or connected with this inspection. Factory Mutual System Date 12-14 1991 Signed Make 2: Commissions 13373	I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of Norwood, MA have inspected the repair, modification or replacement described in this report	 rt
placement described in this 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 alising from or connected with this inspection. Pactory Mutual System Date 12-14 1991 Signed Signed Commissions NJ373 Commissions Commissions NJ373 Commissions Commissions	I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of Norwood, MA have inspected the repair, modification or replacement described in this report on 1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made of	rt or
Date 12-14 1991 Signed Commissions W1373	I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of Norwood, MA have inspected the repair, modification or replacement described in this report on 1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition	rt or or
Date 12-14 1991 Signed Commissions NJ373	I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of Norwood, MA have inspected the repair, modification or replacement described in this report on 10-30 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made of constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition as signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification	rt or n.
Date 12-14 1991 Signed Commissions NJ373	I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of Norwood, MA have inspected the repair, modification or replacement described in this report on 10-30 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made of constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition as signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification	rt or n.
	I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of Norwood, MA have inspected the repair, modification or replacement described in this report on 19-30 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made of constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition are signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification placement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injurity.	rt or n.
	I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Competency is and employed by Arkwright Mutual Insurance Competency	rt or n.

FORM NR-1 REPORT OF REPAIR TO NUCLEAR COMPO				MENT(S) 3
Work performed bPublic Service El	ectric & Gas Co.,	Nuclear Dept.,	Code Job Pkg.	#S91-075
Foot of Buttonwood Road, Har	cocks Bridge, NI	08038		
2. Owner Public Service Electric	and Gas Co Nuc	lear Dept.		
Foot of Buttonwood Road, Har	cocks Bridge, NJ	08038		
3. Name, address and identification of nuclear Foot of Buttonwood Road, Har			on Unit #1	
4. Identification of systemSafety Ir	jection - Nuclear	Class I	·- 	
5. a: Identification of component repaired, mob. Name of manufacturerPacific S		4FW-SN013B Snub	ber	
c: Identifying nos. 476 (mfr s serial no.)	N/A	N/A N jurisdictional no.)	/A 1	976 (year built)
Applicable section(s) XI of ASM Design responsibilities PSE&G	E Code, 19 <u>83</u> edition_	Summer addenda	1983 Code	CaseN/A
-	natic = design pressu	re 🗆 pressure	psN/A	
9. Description of work Replaced snubbe	(use of additional sheet(s) o	N 30359. r sketch(es) is acceptable if pro	perly identified)	
Original Construction Code	Editic	n Addenda	Code Ca	ses
ASME Sec. III	1974	Winter	<u> 1975 1644-4</u>	
10. Remarks:				
Work Order #90111901	6 Deficienc	y Report # N/A		
Identification of Replacement		r		
Name of Manufacturer: Paci				100 0-3:
Identifying Nos.: Part No.	1801106-05-J			ASME Code
Mfr's Serial No. Nat'l Bd.	No Turisdictis	nal No. Other	Year Built	Stamped (Yes/No)
30359 N/A	NO. JULISTICLIC	N/A	1986	Y
Replacement Construction Co	de Edition	Addenda	Code Cases	
ASME Sec. III	1980	Winter 1982	N71 (1644-6),	N-247
We certify that the statements made in this repo conforms to the applicable section of the ASME	CERTIFICATE OF C rt are correct and that all d Code.		manship on thisRep]	acement r, modification or replacement)
Certificate of Authorization no. 36 to use	the NH stamp expires _	Oct. 3. 19_	94 /	_
Signed PSE&G Co.—Nuclear Dept. (repair organization)	(authorized representative)	Manager-Statio		3 .19 9/
	CERTIFICATE OF I	ISPECTION		
I, the undersigned holding a valid commission is petency issued by the state or province of Ne	w Jersey	and employed by Arkw	right Mutual I	insurance Co
of P	iorwood, MA have inspended best of my knowledge an	cted the repair, modifica d belief, this repair, mod		-
constructed in accordance with Section XI of the	· · · · · · · · · · · · · · · · · · ·		•	
signing this certificate, neither the inspector n			•	

Factory Mutual System
NJ 3 73
Nat'l Bd. no. (Including endorsements) state or province and number) . Commissions Authorized inspector)

property damage or loss of any kind arising from or connected with this inspection.

placement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS 1. Work performed by Public Service Electric & Gas Co. Nuclear Dept., Code Job Pkg. #S91 (name) (repair organization's P.C. no., job no. Foot of Buttorwood Road, Hancocks Bridge, NI 08038 (address) 2. Owner Public Service Electric and Gas Co. — Nuclear Dept. Foot of Buttorwood Road, Hancocks Bridge, NI 08038 (address) 3. Name, address and identification of nuclear power plant Salem Generating Station Unit #1 Foot of Buttorwood Road, Hancocks Bridge, NI 08038 4. Identification of system Safety Injection — Nuclear Class I 5. a: Identification of component repaired, modified or replaced 1S-13FW-SN015B Smubber b: Name of manufacturer Pacific Scientific c: Identifying nos. 389 (Matt. Bd. no.) (wart. Bd. no.) (urradictional no.) (other) (year bd. of ASME Code, 19 83 edition Summer addenda 1983 Code Case N/. 7. Design responsibilities PSE&6 8. Tests conducted: hydrostatic pneumatic design pressure pressure psi. N/A 9. Description of work Replaced snubber S/N 389 with S/N 26131. (use of additional sheetity) of sketch(es) is acceptable if properly identified) Original Construction Code Edition Addenda Code Cases N/A N/A N/A N/A)Æ
Foot of Buttonwood Road, Hancocks Bridge, NI 08038 2. Owner Public Service Electric and Gas Co. — Nuclear Dept. Foot of Buttonwood Road, Hancocks Bridge, NI 08038 3. Name address and identification of nuclear power plant Salem Generating Station Unit #1 Foot of Buttonwood Road, Hancocks Bridge, NI 08038 4. Identification of system Safety Injection — Nuclear Class I 5. a: Identification of component repaired, modified or replaced IS-13FW-SN015B Snubber b: Name of manufacturer Pacific Scientific c: Identifying nos 389 N/A N/A 1974 (mfr. s serial no.) (Nati. Bd. no.) (jurisdictional no.) (other) (year but of the property identified) 6. Applicable section(s) XI of ASME Code, 19 83 edition Summer addenda 1983. Code Case N/A 9. Description of work Replaced snubber S/N 389 with S/N 26131. (use of additional shee(s) or sketch(es) is acceptable if property identified) Original Construction Code Edition Addenda Code Cases	
2. Owner Public Service Electric and Gas Co. — Nuclear Dept. Foot of Buttorwood Road, Hancocks Bridge, NT 08038 3. Name, address and identification of nuclear power plant Salem Generating Station Unit #1 Foot of Buttorwood Road, Hancocks Bridge, NT 08038 4. Identification of system Safety Injection — Nuclear Class I 5. a: Identification of component repaired, modified or replaced 1S-13FW-SN015B Snubber b: Name of manufacturer Pacific Scientific c: Identifying nos 389	-076
Foot of Buttorwood Road, Hancocks Bridge, NJ 08038 3. Name, address and identification of nuclear power plant Salem Generating Station Unit #1 Foot of Buttorwood Road, Hancocks Bridge, NT 08038 4. Identification of system Safety Injection - Nuclear Class I Safety Injection - Nuclear Class Injection - Nuclear Class Injection - Nuclear Class Injection - Nuclear Class I Safety Injection - Nuclear Class Inj	
3. Name, address and identification of nuclear power plant	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 4. Identification of system Safety Injection - Nuclear Class I 5. a: Identification of component repaired, modified or replaced 1S-13FW-SN015B Snubber b: Name of manufacturer Pacific Scientific c: Identifying nos 389	
b. Name of manufacturer Pacific Scientific c. Identifying nos. 389 N/A N/A N/A 1974 (mfr. s serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year bd.) 6. Applicable section(s) XI of ASME Code, 19 83 edition Summer addenda 1983 Code Case N/A 7. Design responsibilities PSE&G 8. Tests conducted: hydrostatic pneumatic design pressure pressure psi. N/A 9. Description of work Replaced snubber S/N 389 with S/N 26131. (use of additional sheet(s) or sketch(es) is acceptable if properly identified) Original Construction Code Edition Addenda Code Cases	
b: Name of manufacturer Pacific Scientific c: Identifying nos. 389 N/A N/A N/A 1974 (mfr. s serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year bd.) Applicable section(s) XI of ASME Code, 19 83 edition Summer addenda 1983 Code Case N/A Design responsibilities PSE&G Tests conducted: hydrostatic pneumatic design pressure pressure psi. N/A Description of work Replaced snubber S/N 389 with S/N 26131. (use of additional sheet(s) or sketch(es) is acceptable if properly identified) Original Construction Code Edition Addenda Code Cases	
b: Name of manufacturer Pacific Scientific c: Identifying nos. 389 N/A N/A N/A 1974 (mfr. s serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year bd.) 6. Applicable section(s) XI of ASME Code, 19 83 edition Summer addenda 1983 Code Case N/A 7. Design responsibilities PSE&G 8. Tests conducted: hydrostatic = pneumatic = design pressure = pressure psi. N/A 9. Description of work Replaced snubber S/N 389 with S/N 26131. (use of additional sheet(s) or sketch(es) is acceptable if properly identified) Original Construction Code Edition Addenda Code Cases	
c: Identifying nos. 389 N/A N/A N/A 1974 (mfr. s serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year but) Applicable section(s) XI of ASME Code, 19 83 edition Summer addenda 1983 Code Case N/ Design responsibilities PSE&G Tests conducted: hydrostatic pneumatic design pressure pressure psi. N/A Description of work Replaced snubber S/N 389 with S/N 26131. (use of additional sheet(s) or sketch(es) is acceptable if properly identified) Original Construction Code Edition Addenda Code Cases	
(mfr. s serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year but the content of the c	
/. Design responsibilities	ilt)
/. Design responsibilities	A
Description of work Replaced snubber S/N 389 with S/N 26131. (use of additional sheet(s) or sketch(es) is acceptable if properly identified) Original Construction Code Edition Addenda Code Cases	
Description of work Replaced snubber S/N 389 with S/N 26131. (use of additional sheet(s) or sketch(es) is acceptable if properly identified) Original Construction Code Edition Addenda Code Cases	
(use of additional sheet(s) or sketch(es) is acceptable if properly identified) Original Construction Code Edition Addenda Code Cases	
). Remarks:	
$\mathcal{L} \mathcal{U}$	
Work Order #901119016 Deficiency Report # N/A	
THE THE PERSON OF THE PERSON O	
Identification of Replacement: 1 Kip Snubber	
Name of Manufacturer: Pacific Scientific	
Identifying Nos.: Part No. 1881102-05 ASME	Code
Stam	
Mfr's Serial No. Nat'l Bd. No. Jurisdictional No. Other Year Built (Yes	
26131 N/A N/A N/A 1987 Y	

2.

Replacement Construction Code	Edition	<u>Addenda</u>	Code Case	<u>s</u>
ASME Sec. III	1974	Summer 1976	1644-4	
CEF	RTIFICATE OF C	OMPLIANCE		
We certify that the statements made in this report are corrections to the applicable section of the ASME Code.	ect and that all de	esign, material and workm	anship on this R	eplacement
Certificate of Authorization no. 36 to use the that Signed PSE&G CoNuclear Dept.		Oct. 3, 19 Manager-Statio	94 n QA <i>H</i> ,	13 191
OM160	portative)	(title)		(date) 19
CEI	RTIFICATE OF IN	ISPECTION		
I, the undersigned holding a valid commission issued by T petency issued by the state or province of New Jer	sey	and employed by Arkw	right Mutua	l Insurance Co
on 2-23 199/ and state that to the best of r	nave inspe ny knowledge and	cted the repair, modification belief, this repair, modific	n or replacement cation or replacem	described in this report nent has been made or

constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition. signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification eplacement described in this 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.

Signed_

Authorized inspector)

Factory Mutual System

Commissions NJ373

Nat 1 Bd. no. (Including endorsements) state or province and number)

FORM NR-1 REPORT OF REPAIR - MODIFICATION - OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Public Service Plactric & Cas Company - Nuclear Dect. GTD 4 C 01 004
1 Work performed by Public Service Electric & Gas Company - Nuclear Dept. CJP # S-91-084 (name) (repair organization s P.O. no., job no., etc.)
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
2. Owner Public Service Electric & Gas Company
(name)
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
3. Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit # 1
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
4 Identification of system Main Steam Nuclear Class II
5. a: identification of component repaired, modified or replaced Spool Piece 1MS-4073B
b: Name of manufacturer N/A N/A N/A N/A 1969
(mfr.s.serial.no.) (Nat'l. Bd. no.) (jurisdictional.no.) (other) (year.built)
6. Applicable section(s) XI of ASME Code, 19 83 edition 1983 addenda Summer Code Case N416
7. Design responsibilities
8. Tests conducted: hydrostatic * pneumatic = design pressure = pressure 1420 ps System Inservice Test NO 9. Description of work Replaced spool piece elbow 1MS-4073B in kind.
9. Description of work
Work Order #901130209
0. Remarks: DR #SMD-91-063
•

CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement (repair, modification or replacement)
conforms to the applicable section of the ASME Code. Certificate of Authorization no. 36 to use the "NR" stamp expires October 3 19 91
PSE&G Nuclear Department / PSE&G Nuclear Departm
Signed (repair organization) AN (authorized representative) (title) (gase)
CERTIFICATE OF INSPECTION
I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of com- New Jersey
petency issued by the state or province of and employed by
of have inspected the repair, modification or replacement described in this report
on 5-L 1971 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or
constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury
property damage or loss of any kind ansing from or connected with this inspection. Factory Mutual System
Date 8-6 1991 Signed Jones E. Corl Commissions NJ 373
Authorized inspector) Nat1 Bd. no. (including endorsements) state or province and number)

TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS 1. Work performed by Public Service Electric & Gas Co. CJP #S-91-122 (repair organization s P.O. no., job no., etc.) Foot of Buttonwood Road, Hancocks Bridge, NI 2. Owner Public Service Electric and Gas Co. Nuclear Dept Foot of Buttonwood Road, Hancocks Bridge, NJ (address) 08038 3. Name, address and identification of nuclear power plant Salem Generating Station Unit # Foot of Buttonwood Road, Hancocks Bridge, NJ <u> Main Steam</u> 4. Identification of system____ 5. a: Identification of component repaired, modified or replaced 11 Steam Generator Secondary Hand Hole Flange b. Name of manufacturer _ <u>Westinahouse</u> 1003 68-10 n/a N/A 1969 c: Identifying nos.___ (year built) (mfr.'s serial no.) (jurisdictional no.) of ASME Code, 19_83_ edition_1983 addenda Summer N/A 6. Applicable section(s) XI Code Case_ PSE&G Design responsibilities _ psi System Inservice Test pneumatic 🗀 design pressure 🗀 pressure_NOP_ 8. Tests conducted: hydrostatic = Description of work. (use of additional sheet(s) or sketch(es) is acceptable if properly identified) Repaired pitting on 11 steam generator secondary hand hole flange by machining. 10. Remarks: WO #901120018 DR #ISI-91-127 CERTIFICATE OF COMPLIANCE We'certify that the statements made in this report are correct and that all design, material and workmanship on this Repa conforms to the applicable section of the ASME Code. <u> 36</u> 19_ Certificate of Authorization no. to use the "NR" Signed PSE&G Co. - Nuclear Dept. -Station OA (repair organization) authorized recree CERTIFICATE OF INSPECTION I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of comand employed by Arkwright Mutual Insurance Co New Jersey petency issued by the state or province of _ of Norwood. MA have inspected the repair, modification or replacement described in this report and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification eplacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury operty damage or loss of any kind-arising from or connected with this inspection. Factory Mutual System Commissions.

FORM NR-1 REPORT OF REPAIR & MODIFICATION = OR INSTALLATION OF REPLACEMENT(S)

Nat'l Bd. no. (including endorsements) state or province and number)

FORM NR-1 REPORT OF REPA TO NUCLEAR COMP	IR ☑ MODIFICATION ☐ O PONENTS AND SYSTEMS I		
Work performed by Public Service El	ectric & Cas Co Mo	clear Dont CTD	S91-167
	(name)		on's P.O. no., job. no.,etc.)
Foot of Buttonwood Road, Han	cocks Bridge, NJ 080		
	(address)		
2 Owner <u>Public Service Electric</u>			
Foot of Buttonwood Road, Han	(name) cooks Bridge NT 080	20	
TOOL OF IMPLEMENTAL AND A TAKEN	(address)	30	
3. Name, address and identification of nuclear power p	lant Salem Nuclear	Generating Station (mit #1
Foot of Buttonwood Road, Han	cocks Bridge, NJ 080		
4. System <u>Service Water</u>		<u>1</u>	Nuclear Class II
5. a: Component repaired, modified or replaced RD-			_
b: Name of manufacturerPullman Kell		N/A	_1972
, 6,	I/A N/A Bd.No.) (jurisdictional no.)	(other)	(year built)
d: Construction Code <u>ANST B31.7 1969</u>		N/A	II
ANSI B31.1 1967 Eddition)	(addenda)	(Code Case(s))	(Code Class)
6. Section XI	Summer 83		N/A
(edition)	(addenda)	•	(Code Case(s))
7. Applicable edition of ASME Code Section XI under v	which repairs, modifications, or repla	cements were made: 1983	S83 N/A
		(edition)	(addenda) (Code Case(s)
8. Applicable edition of Construction Code under which			1970 N/A
· · · · · · · · · · · · · · · · · ·	*ANSI B31.7/ANSI B31.	1 1967 Ed. (edition)	(addenda) (Code Case(s)
9. Design responsibilities PSE&G	☐ design pressure ☐ ★★ pres	ssure NOP psi Code Cas	e(s) N/A
 Tests conducted: hydrostatic pneumatic Description of work performed weld r 		soire <u>100P</u> psi code cas	e(s)N/A
TI. Description of work		n(es) is acceptable if properly identified)	
12. Remarks: <u>Work Order #: 91022712</u>		reficiency Report #: 5	MD 91-081
Design Change Package			
See attached pages for			
**System Inservice Tes	st Performed @ NOP Te	emp. N/A	
	CERTIFICATE OF COMPLI	ANCE	•
	CERTIFICATE OF COMPLI	AITCE	
We certify that the statements made in this report are co	orrect and the repair, modification or	replacement of the items describe	d above conforms to Section XI
of the ASME Code and the National Board rules as defin			
Certificate of Authorization no 36 to us		t. 3, 19 <u>94</u>	
-	CoNuclear Dept.	000	Principal Eng
Date 10-5- 19, 97 Signed FSE&G	CO:-Nuclear Dept.	Shululu.	
	(repair organization)	(authorized representative)	(title)
A STATE OF THE STA	OFFICIALTE OF WATER		
	CERTIFICATE OF INSPEC	HON	
I, the undersigned, holding a valid commission issued by	v The National Board of Poiler and S	Processo Vaccal Inconstant and an	
, the undersigned, holding a valid commission issued by		ressure vesselinspectors, and ce with Multipal Insurance	

the state or province of	New Jersey	_ and employed by	Arkwright Mutual		
of <u>MA</u> have	inspected the repair, mo	odification or replacement des	cribed in this report on	4-17 , 199/	and state that to the
best of my knowledge and	l belief, this repair, mod	ification or replacement has be	een made in accordance with	Section XI of the ASME C	ode and the National
Board rules as defined in t	the publication NB-102,	current edition. By signing this	is certificate, neither the Insp	ector nor his employer mak	es any warranty,
expressed or implied, con-	cerning the repair, modi	ification or replacement descri	bed in this report. Furthermo	ore, neither the Inspector no	r his employer shall be
liable in any manner for ar	ny personal injury or pro	perty damage or a loss of any	kind arising from or connect	ed with this inspection.	
		// / ^		Factory Mutua	1 System
10-9 , 199	2. Signed Von	mey E. Cosh	Commissions	NJ 373	
	<i></i>	(Inspector)	(Natl.Bd.)	No.(including endorsements)sta	ite or province and number

	TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS
1. \	Work performed by Public Service Electric & Gas Co Nuclear Dept. CTP #S-91-238 (name) (repair organization's P.O. no., job no., etc.)
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
2. (Owner <u>Public Service Electric and Gas Co Nuclear Dept.</u>
	Foot of Buttorwood Road, Hancocks Bridge, NJ 08038
3.	Name, address and identification of nuclear power plantSalem Generating Station_Unit # _ 1
A 1	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Identification of system Main Steam - Nuclear Class II
	a: Identification of component repaired, modified or replaced Flow Orifice 1S12A
	b: Name of manufacturerN/A
	c: Identifying nos. N/A N/A N/A N/A N/A N/A N/A N/A (mfr.'s serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year built)
	Applicable section(s) XI of ASME Code, 19 83 edition 1983 addenda Summer Code CaseN/A
	Design responsibilities
8.	Tests conducted: hydrostatic 🗀 pneumatic 🗀 design pressure 🗌 pressure <u>770</u> psi. System Inservice Tes
9.	Description of work Replaced bolting in orifice 1S12A
	(use of additional sheet(s) or sketch(es) is acceptable if properly identified)
	Construction Code Code Cases Manufacturer Code System Stamp ANSI B31.1/B31.7, 1969 N/A N/A N/A
	CERTIFICATE OF COMPLIANCE
	certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement forms to the applicable section of the ASME Code.
	tificate of Authorization no. 36 to use the "NR" stamp expires Oct. 3, 19 94
Cia	Manager-Station QA /0/17 199/
Sigi	(repair organization) (authorized representative) (title) (Osse)
	CERTIFICATE OF INSPECTION
	ne undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of com- ency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co
	of Norwood, MA have inspected the repair, modification or replacement described in this report
on_	5-/6 19-41 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or
	structed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition.
Ry	signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification
	placement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury
	property damage or loss of any kind-arising from or connected with this inspection. Factory Mitual System

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) & TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Wo	ork perio	rmec b	, Pub	lic Se	rviœ 1	Elect	ric & G	as co.	- Nuclear	Dept.		CJP #S	91-256	
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2 Own	a.	 Publi	c Ser	viœ F	lectri	c and	Gas Co	:address.						
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3 Nai					clear powe				ear Genera	ating St	ati	on Ur	it #1	
4 Svste					Contr		ks Brid	ge, Nu	08038			N	clear C	lass 1
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6 Sec	tion XI			1983				Summer	83	_N/	<u>'A</u>			
7 A pp	olicable ed	dition of	ASME C	(edition) ode Section	on XI unde	r which	repairs, mod	(addenda) difications, (or replacements	were made	19	83	S83	N/A
8 App	olicable e	dition of	Constru						placements wer			1968	(addenda) 1970	(Code Case(s)) N/A
		^_							s & Valve Add	5/ rc	ode)	(edition)	(addenda)	(Code Case(s))
9 Des	sign resp	onsibilit	ies						NOP		-N/	A * Ot	her —	
10 Tes	sts condu	cted by	oresi Re	places	r vaive	88390	Tig.	pressur	NOPp	S 1				
11. De:	scription	o: wor	ж											
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		*Sy	sten	Inserv	iœ Pe	rform	ed at N	OP						
							CERTIFICAT	TE OF COM	PLIANCE			(************************************		
Section		ne ASME	E Code a	nd the Na			as defined i	n the public	fication or repla cation NB-102, of p expires OC	current edition		94	bed above c	onforms to
Date	8-	12_	19 <u>, 7 2.</u>	Signed_	PSE&	ς ω .	-Nuclea	r Dept.	Sh	Links		Pri	ncipal	Engr.
						(1	repair organizati	on)	(aut	horized represen	ntative)		(title)	·
		1,000	, - <u></u>				CERTIFICA							
issue	undersig	state or	province	of			and emp	loyed by_	oiler and Packing	wr Yght la	10tot			
Board	l rules as ssed or in	— wiedge : defined nplied, :	and belie in the p concerni	f, this repa ublication ng the rep	air, modific NB-102, co air, modifi	ation or urrent ed cation o	replacemen dition. By si r replaceme	t has been r gning this o nt describe	n this report on made in accorda certificate, neithed d in this report. of any kind aris	or the Inspect Furthermor	tor no	(I of the A or his emp ther the Ir	oloyer make: aspector nor	nd the National s any warranty, his employer
Date	8-1			Signed (Jane	16	. Liz L		Commissio	ns_NJ	373	3		nce and number)
					<u>.</u>	·								·

FORM NR-1 REPORT OF REPAIR TO MODIFICATION TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

• •	Work performed by Public Service Electric &	Gas Co., Nucle	ar Dept., Co	de Job Pkg. :	#S91-265
	Foot of Buttonwood Road, Hancocks Br			air organization's P.O. no	o., job no., etc.)
2.	Owner Public Service Electric and Gas (
		(marrie)			
	Foot of Buttonwood Road, Hancocks Br	laddress			
3.	Name, address and identification of nuclear power plant Foot of Buttorwood Road, Hancocks Br			Unit #1	
4.	Identification of system Chemical Volume Co				
	a: Identification of component repaired, modified or replace b: Name of manufacturer			ransfer Pump	Seal
	c: Identifying nos. N/A N/A (Nat'l. Bd. no	N/A	N/A	1.	970
		_		,	(year built)
	Applicable section(s) XI of ASME Code, 19 8. Design responsibilities PSE&G	3 edition Summer	addenda 198	Code Ca	se <u>N/A</u>
	Tests conducted: hydrostatic \(\text{pneumatic} \(\text{plane} \)	lesion pressure	pressure_NOP	osi System Ins	service Test
	Description of work Replaced mechanical pum	p seal.			
		itional sheet(s) or sketch(es) i			
	Original Construction Code		Addenda	Code Case	<u>es</u>
	Draft Pump & Valve Code	1968	N/A	N/A	
10.	. Remarks:				
_	Work Order #910612120 J	Deficiency Repo	ort # N/A		
_	Identification of Replacement: Mecha	anical Seal			
	Name of Manufacturer: Gould Pump				
	Identifying Nos.: N/A				ASME Code
	• •				Stamped
			o. Other Y	ear Built	(Yes/No)
_	Mfr's Serial No. Nat'l Bd. No. Ju	risdictional No			
_	Mfr's Serial No. Nat'l Bd. No. Ju N/A N/A	risdictional No N/A	N/A	N/A	N/A
	N/A N/A	N/A	N/A	N/A	N/A
	N/A N/A Replacement Construction Code Fa	N/A dition Adde	N/A enda C	N/A ode Cases	N/A
	N/A N/A	N/A dition Adde	N/A	N/A	N/A
	N/A N/A Replacement Construction Code Fa	N/A dition Adde	N/A enda C	N/A ode Cases	N/A
	N/A N/A Replacement Construction Code Fa	N/A dition Adde	N/A enda C	N/A ode Cases	N/A
	N/A N/A Replacement Construction Code For Draft Pump & Valve Code	N/A dition Adde 1968 N	N/A enda C	N/A ode Cases	N/A
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	N/A N/A Replacement Construction Code For Draft Pump & Valve Code CERTIFIES Certify that the statements made in this report are correct at	N/A dition Adde 1968 1	N/A enda C I/A	N/A ode Cases N/A hip on this Repl	
00	N/A N/A Replacement Construction Code Fa Draft Pump & Valve Code CERTIFIE de certify that the statements made in this report are correct as an forms to the applicable section of the ASME Code.	N/A dition Adde 1968 1 ICATE OF COMPLIAN and that all design, mai	N/A enda C I/A ICE erial and workmans	N/A ode Cases N/A hip on this Repl	acement
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FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

		tric & Gas Co		pept. wr	#S91 - 280	
Foot of Buttor	wood Road, Hanco	(name)			r organization's P. O	. na, job. na.,etc.)
		(address)				
2. Owner Public Ser	vice Electric an	nd Gas Co.				
Foot of Buttor	wood Road, Hanco	ocks Bridge, N	J 08038	·		
		(address)	alasw Canam	nting Station	rania Ha	
3. Name, address and identification of Button	ation of nuclear power plant wood Road, Hanco	·		icing station	OITTE #1	
	Volume Control		,		Nuclear C	lass II
5. a: Component repaired, modif	fied or replaced #12 C	WC Boric Acid	Transfer Po	nib		
b: Name of manufacturer	Gould Pumps					
	39361 N/A		N/A	N/A	19	70
·	rial Dejaft Pumpi. St. No.)		risdictional no.)	(other)		ar built)
d: Construction Code	Valve Code 1968		N/A		2	
6. Section XI	(edition) 1983	(addenda) Summ	er 83	(Code Case(s)) N/A	(Code	Class)
U. OBCHOIL AL	(edition)	(addenda			Case(s))	
7. Applicable edition of ASME C	· ·	•	•	were made: 1983	S83	N/A
				(edition)	(addenda)	(Code Case(s))
8. Applicable edition of Constru	action Code under which re					
· · · · · · · · · · · · · · · · · ·	TREA	*Draft	hamb & Asta	re Code _{co} 1968 _{edition}	n) (addenda)	(Code Case(s))
9. Design responsibilities PS				Temp. NOP S	stem Inso	rice Tes
 Tests conducted: hydrostation Description of work Research 		gn pressure [] press			Stell Hige	TAICE IES
11. Description of work RE		nai sheet(s) or sketch(es) is ac				
	(ase of estative)		nepresia ii proporty lection			
	ler #: 910725101			Report#: N/A		
	ncy Report #: N/A		Rev. N/A	37/3		
	ached pages for I	escription or	Replacement	. N/A		
See atta						
See atta						
See atta		CERTIFICATE OF C	OMPLIANCE	•		
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We certify that the statements	•	rrect and the repair, m	odification or replac		scribed above c	onforms to
,	and the National Board rule	rrect and the repair, mes as defined in the pu	odification or replac	urrent edition.		onforms to
We certify that the statements Section XI of the ASME Code a Certificate of Authorization no.	and the National Board rule	rrect and the repair, mes as defined in the pu	odification or replace ublication NB-102, camp expires	eurrent edition.	-	_
We certify that the statements Section XI of the ASME Code a	and the National Board rule	rrect and the repair, m es as defined in the pu to use the "NR" st	nodification or replace ublication NB-102, coamp expires	olverti J	rincipal	onforms to
We certify that the statements Section XI of the ASME Code a Certificate of Authorization no.	and the National Board rule	rrect and the repair, mes as defined in the pu	nodification or replace ublication NB-102, coamp expires	eurrent edition.	-	_
We certify that the statements Section XI of the ASME Code a Certificate of Authorization no.	and the National Board rule	rrect and the repair, mes as defined in the putto use the "NR" stings	nodification or replace ublication NB-102, containing expires	olverti J	rincipal	_
We certify that the statements Section XI of the ASME Code a Certificate of Authorization no.	and the National Board rule	rrect and the repair, m es as defined in the pu to use the "NR" st	nodification or replace ublication NB-102, containing expires	olverti J	rincipal	_
We certify that the statements Section XI of the ASME Code a Certificate of Authorization no. Date 3/23 19,92.	and the National Board rule 36 Signed PSESG Co	rrect and the repair, mes as defined in the put to use the "NR" strong to use the "NR" stro	nodification or replace ublication NB-102, containing expires Oct (authority) NSPECTION of Boiler and Pressur	re Vessel Inspectors, ar	Principal (Hile)	Engr.
We certify that the statements Section XI of the ASME Code a Certificate of Authorization no. Date 3/23 19,92. I, the undersigned, holding a vissued by the state or province.	and the National Board rule 36 Signed	rrect and the repair, mes as defined in the pure to use the "NR" state of the state	nodification or replace ublication NB-102, contemp expires AT A A A A A A A A A A A A A A A A A A	re Vessel inspectors, ar	Principal (trie) d certificate of	Engr.
We certify that the statements Section XI of the ASME Code at Certificate of Authorization no. Date 3/23 19,92. I, the undersigned, holding a vissued by the state or province of MA have inspected.	and the National Board rule 36 Signed	rrect and the repair, mes as defined in the pure to use the "NR" strong to use the "NR" str	nodification or replace ublication NB-102, contemp expires AT A Contemp expires (authorized by ATRA) ATRA The in this report on	re Vessel inspectors, ar	d certificate of insurance	competency
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We certify that the statements Section XI of the ASME Code at Certificate of Authorization no. Date 3/23 19,92. I, the undersigned, holding a vissued by the state or province of MA have inspected best of my knowledge and belied Board rules as defined in the pexpressed or implied, concern	and the National Board rule 36 Signed	rrect and the repair, mes as defined in the pure to use the "NR" structure of the structure	nodification or replace ablication NB-102, containing the property of Boiler and Pressure and Pressure in this report on the pressure of the p	re Vessel Inspectors, ar vright Mutual note with Section XI of the Inspector nor his of Furthermore, neither the Inspector method.	d certificate of insurance A SME Code a employer makes the lnspector nor	competency Co that to the nd the National any warranty, his employer
We certify that the statements Section XI of the ASME Code at Certificate of Authorization no. Date 3/23 19,92. I, the undersigned, holding a vissued by the state or province of MA have inspected best of my knowledge and beliable and rules as defined in the pexpressed or implied, concerning that the liable in any manner for the concerning that the section of the pexpressed or implied, concerning that the liable in any manner for the concerning that the liable in any manner for the concerning that the liable in any manner for the concerning that the liable in any manner for the concerning that the liable in any manner for the concerning that the liable in any manner for the concerning that the liable in any manner for the concerning that the liable in any manner for the concerning that the liable in any manner for the concerning that	valid commission issued by of New Jerse of this repair, modification outlication NB-102, current for any personal injury or p	rrect and the repair, mes as defined in the pure to use the "NR" structure of the structure	nodification or replace ablication NB-102, containing the property of Boiler and Pressure and Pressure in this report on the pressure of the p	re Vessel inspectors, ar viright Mutual note with Section XI of the Inspector nor his of Furthermore, neither thing from or connected with the Inspector or neither the Inspector or connected with the Inspector or neither the Inspector or neither the Inspector or connected with the Inspector or neither the Inspector or connected with the Inspector or neither the Inspec	d certificate of insurance ASME Code a employer makes the lnspector nor with this inspect	competency Co that to the nd the National any warranty, his employer ion.
We certify that the statements Section XI of the ASME Code at Certificate of Authorization no. Date 3/23 19,92. I, the undersigned, holding a vissued by the state or province of MA have inspected best of my knowledge and belied Board rules as defined in the pexpressed or implied, concerning	valid commission issued by of New Jerse of this repair, modification outlication NB-102, current for any personal injury or p	rrect and the repair, mes as defined in the pure to use the "NR" structure of the structure	NSPECTION of Boiler and Pressur oe in this report on en made in accordants certificate, neither ribed in this report. Oss of any kind arision	re Vessel inspectors, ar viright Mutual note with Section XI of the Inspector nor his of Furthermore, neither thing from or connected in Factory	d certificate of insurance ASME Code a employer makes the Inspector nor with this inspect.	competency Co a that to the nd the National any warranty, his employer ion.

FORM NR-1 REPORT OF REPAIR \equiv MODIFICATION \equiv OR INSTALLATION OF REPLACEMENT(S) \cong TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Public Service Flectric & Gas Co Nuclear Dept. CTP #S-91-287
Foot of Buttorwood Road, Harcocks Bridge, NJ 08038
(address)
2. Owner <u>Public Service Electric and Gas Co Nuclear Dept.</u>
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
3. Name. address and identification of nuclear power plantSalem Generating Station Unit # 1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
4. Identification of system Service Water System Nuclear Class II
lacksquare
b: Name of manufacturerMasoneilan
c: Identifying nos. N00113-40-5 N/A N/A N/A 1974
(mfr.'s serial no.) (Nat'i. Bd. nò.) (jurisdictional no.) (other) (year built)
6. Applicable section(s) XI of ASME Code, 19 83 edition 1983 addenda Summer Code Case N/A 7. Design responsibilities PSE&G
8. Tests conducted: hydrostaticpneumaticdesign pressurepressurepsi.Visual Leak Exam.
9. Description of work
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)
Weld repair valve body and replaced flange bolting.
10. Remarks:
JL WO #910807095 DR #SMD-91-341
CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement
conforms to the applicable section of the ASME Code.
Certificate of Authorization no. 36 to use the "NR" stamp expires 0ct. 3 19 91
Signed PSE&G Co Nuclear Dept. ML Manager-Station QA 7/9
(case) (repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION
I, the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of com-
petency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co
of Norwood, MA have inspected the repair, modification or replacement described in this report
on 8-20 1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or
constructed in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB 102 current edition.
signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification
aplacement described in this 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 crising from or connected with this inspection. Factory Mutual System
Date 7-70 19-77 Signed Z. Commissions Nut 1 Bd. no. (Including endorsements) state or province and number)

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) [2] TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1 of 1

-1 . \	Work perf	ormed	_{by} Public Service	Electric & G	as Co Nucle	ear Dept. CJI	P #S91-306	
			Buttonwood Road, H	lancocks Brid	ge ^{nam} NJ 08038	[Te	peur organization's P. O.	no. job. no.,etc.)
2. Ov	vner	Publ	ic Service Electri	c and Gas Co	(address)		· 	
	Foot	of	Buttonwood Road, F	lancocks Brid	lge, NJ 08038			
3. 1	vame, addi Foot	ess and	identification of nuclear pow Buttorwood Road, F	ar niant		nerating Station		
			ctor Coolant				- Nuclear Cl	ass I —
-,	Stem			PSI Valve				
	: Name of		Conoc Thild	an				
	: Identifying		691095002163	N/A	N/A	N/A	 196	59
		_	17-1 1060	Bd. No.) N/A	(jurisdictional no.)	(other)	1/200	r built)
	: Construct	don Coc	(edition) 1983	(addenda)	Summer 83	(Code Case(g)) N/A	(Code C	ilass)
	ection XI		(edition)		(addenda)		oce Carefully 3	N/A
7. A	pplicable e	dition o	f ASME Code Section XI und	er which repairs, mo	difications, or replacen	nents were made:	- 	Roda Case(s))
8. <i>A</i>	pplicable e	edition o	of Construction Code under w	hich repairs, modific	ations or replacement. Draft Pilip. &	s were made: —— — Valve —— —	tion) (addenda)	(Code Case(s))
9. [esign res	ponsibil	ities PSE&G				Oracham - Inga	aviao Tos
			vdrostatic D pneumatic D	design pressure [) pressure NOP	psi Tellip. N/A	System Inse	. v 100- 100
11. [Description	of wo	ork Replaced cage	, plug and s	tem assembly.			
			(use o	f additional sheet(s) or ske	tch(es) is acceptable if proper	ly identified)		
12. F	Remarks: _		rk Order #: 91021		De Rev. N/A	ficiency Report	#: SMD 91-3	77 Rev. 1
_		Se	sign Change Packa e attached pages	for Descript	,			
		·		CERTIFICA	TE OF COMPLIANCE	 		
Se		the ASN	atements made in this report E Code and the National Bo sation no. 36	ard rules as defined	•	102, current edition.	described above co	nforms to
1	to: 4/6		-,	&G CoNucle	_	+ Polant	Principal	Engr.
l ba	18: <u>7/ 0</u>		19,72. Signed102	(repair organiza		(authorized representative)	(title)	
		7 (15-21)		CERTIFIC	ATE OF INSPECTION			
I, ti	he undersig	gned, h	olding a valid commission is	ued by The Nationa	l Board of Boiler and F	arkulisht ^a ngeosi	aud teditions or c	ரு petency
of	MA	01410 0	r province of		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		19 9Z and state	
Bo	ard rules a pressed or	s define implied	and belief, this repair, modif d in the publication NB-102, , concerning the repair, modi	current edition. By striction or replacem	signing this certificate, ent described in this re	neither the Inspector nor hipport. Furthermore, neither	s employer makes the inspector nor l	any warranty, nis employer
sha	all be liable	in any	manner for any personal inju	ry or property dama	ge or a loss of any kin	d arising from or tage	eyni naticial posi	9 tem
Da	to Ap	4	,19 <i>92</i> Signed	(Authorized Insp		nissions <u>NB 7X66</u> (Natl.Bd.No.(including endo	NJ 1028 ersements)state or province	e and number)

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Vork performed	by Public Service Elect	cric & Gas Co Nuclea	r Dept. CJP #	S92-097
Foot of	Buttonwood Road, Hancoo	cks Bridge, NU 08038	(repair i	organization's P. O. no. job. no.,etc.;
2. Owner Publ	ic Service Electric and	i Gas Co. (address)		
Foot of	Buttorwood Road, Hancoo	cks Bridge, NU 08038		
	d identification of nuclear power plant Buttorwood Road, Hancoo		rating Station U	nit #1
	vice Water	and in tage, no coope	N	uclear Class II
-,	ired, modified or replaced 15SW72	2		
b: Name of manuf	M			
	N-00113-39-5 N/A	N/A	N/A	1974
	(mt is sena no.: Mari: Bd. No. ode: ASVE Sec. III 1968 V	(junadictiona no winter 1970	lothen ₹ /A	(year built: 2
S Section XI	ANSI RAL., 7 1969 Ed. 1983	197 <u>0. Ad</u> d. Summer 83	(Code Case(S)) N/A	(Code Class)
	(edition)	(addenda)	[Code (
7. Applicable edition	of ASME Code Section XI under which	th repairs, modifications, or replaceme	ents were made: 1983	S83 N/A
			(edition)	(addenda) (Code Casets;
Applicable edition	of Construction Code under which re			W70 N/A
		III/ANSI B31.7 1969 Ed.	19/0 AD(dode) (edition)	(addenda) (Code Case(s)
Design responsib		on pressure II pressure NOP	psi Temp. N/A * C	ther
0. Tests conducted:	hydrostatic pneumatic designork Performed weld report		_psi Temp. N/A ~ C	CLIEL
	fuse of addition	usi shoet(s) or sketch(es) is acceptable if properly	identified)	
	ork Order #: 920206078	02-384	· 	
	eficiency Report #: SMD System Inservice Test P			
^2	ystem mservice test A	errormed at Nor		
		CERTIFICATE OF COMPLIANCE		
We certify that the s	statements made in this report are coi	rrect and the repair, modification or re	epiacement of the items desc	cribed above conforms to
	ME Code and the National Board rule	•		
Certificate of Author	ization no36	to use the "NR" stamp expires	oct_3,, 19_94	•
Date 7/7	19, 92 Signed PSF&G CO	-Nuclear Dept. Q.J.	Rater to Dr	incipal Engr.
	_iai1c aaina	(repair organization)	(authorized representative)	(little)
		CERTIFICATE OF INSPECTION		
I, the undersigned,	holding a valid commission issued by or province of New Jerse	The National Board of Boiler and Pro	essure Vessel Inspectors, and	certificate of competency
	re inspected the repair, modification of ge and belief, this repair, modification			22 and state that to the ASME Code and the Nationa
	ned in the publication NS-102, current			
expressed or implie	d, concerning the repair, modification	n or replacement described in this rep	ort. Furthermore, neither the	Inspector nor his employer
shall be liable in an	y manner for any personal injury or p	roperty damage or a loss of any kind		ith this inspection. Jutual System
Pate July 1	5,199Z Signed	wellow commi	מוכמת מנו	NJIO29
- July 1	- Orginos	(Authorized Inspector)		nents)state or province and number)
! /				

FORM	NPV-1 N	HANU	ACTU	RURS	DALA	RIPORT	IOR	NUCLEAR	PUMPS OR	VALVES
			V. Rose	ared by	St. Po.	a source of all	1511	L Code Rules		

1. Managemed by 62 Ballettan 13	ternational, d	Hers. Order	No. 1:-00113-25-1
	o Mestrio & C	us Co.	E156959 -3 No = 4
3. OwnerPublic S	Service Electri	o & Cun Co	
4. Location of Plant Sales Public	i <u>r Con</u> erating S	tacion, Units 18	2, Salom, W
5. Pump or Velve Ident (c)	102, 203,77, 3	371.73, 37 TT, 13	5.7.72 (1.17)
Sorvice (bust assi	o Pater – Boole pro 1995 meter de Ma	ong Agon chieqeyesar so I land	,
(a) Drawing No A8599 D	Prepared by	R. D. Cromin	
6. Design Conditions 240	-	200 •-	
7. The material, design, construction, a		iplies with ASML Code	
Mark No.	Material Spec, No.	Manufacterer	Remarks
(a) Castings F8969-1	VSAT SA216	(CONTER	RODA
F8969-2	1335		
F8969-3		ļ	
1789C9-4 F8Y6Y-5	· ·	ļ	
	·		
G91-1	ASST. SA351	MERRAL	- <u>V.7.3:</u>
-2	U.C.		
-3			
-4			
-5		<u></u>	
	ļ 		
(b) Forgings	<u> </u>		
		<u> </u>	
differentiations distributed the senger of general representations			
, 	l	I	J/

1 ORM NPV-1 (back)

Mirk No.	M. terral Sp No.	Manual settiner	Retinal s
(c) Borning			
	1	r. 50. 50. 5	
		1 1.	
S. Hytrostatic test			
	CERTIFICATION	OF DESIGN	
(1) Signature not required.	ots made in this report are corre	oct. By	
Cerrificate of Authorization	No expires	ບບຸຖະສານວະ 9, 1977 	
10/	CERTIFICATE OF SH	OP INSPECTION	
I, the undersigned, holding a	valid commission issued by the Nat	nout Board of Body rand Pres	one Ver of largeretors and/or
the State of Province of	and employed	(b)	
	hac	inspected the equipment descr	nbed in this Data Report on
this equipment in accordance wi	, and store that to the best of r th the applicable Sub-common AS	ny knowlodye and tellef, the S SH Code, Section III.	lanufoctures has constructed
the equipment described in the	citler the Inspector nor his english. Data Report, I urthermore, next or property damage or a loss of any	for the hopertor for his en-	High dull be Litte in any
Date 19 ,			
(Inspector)	Commencions	Than of the side state, Pro	inner and Sm.)

FORM NR-1 REPORT OF REPAIR ☐ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☑ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work performed by Public Service Electric & C	as Co Nuclear	Dept. CJP #9	S92 - 155
	(name)		rganization's P. O, no job no.,etc.
Foot of Buttonwood Road, Hancocks Brid	ige, NJ 08038		
	(address)		
2. Owner Public Service Electric and Gas Co	<u>. </u>		
	(name)		
Foot of Buttonwood Road, Hancocks Brid	lge, NJ 08038		
	(address)		
	em Nuclear Genera	ating Station U	עזב 11
Foot of Buttonwood Road, Hancocks Brid	ige, NJ 08038		Close TT
4 System <u>Demineralized Water</u>		N	uclear Class II
5 a Component repaired, modified or replaced 1DR29			
b: Name of manufacturer <u>Masoneilan</u>			1000
c Identifying nos N-00101-1 N/A	N/A	N/A	1973
(mft.'s serial no.) (Nat'l. Bd. No.)	(jurisdictional no.)	(other)	(year built)
d Construction Code ASME DP&V 1968 3/70		N/A	<u> </u>
. (edition) (addenda	:	(Code Case(s))	(Code Class)
6 Section XI	Summer 83	_N/A	
(edition)	(addenda)	(Code Ca	• • •
7. Applicable edition of ASME Code Section XI under which repairs, me	odifications, or replacements	were made: <u>1983</u>	<u>S83 N/A</u>
		(edition)	(addenda, (Code Case(s))
8. Applicable edition of Construction Code under which repairs, modifi	cations, or replacements we	re made: <u>* 1968</u>	3/70 N/A
· ·	ASME DP&V	(Code; (edition,	(addenda, (Code Case(s))
9. Design responsibilities PSE&G			
10 Tests conducted hydrostatic 🛭 pneumatic 🗓 design pressure [pressure <u>NOP</u> p	s Temp. N/A **	
11. Description of work Replace (8) bonnet studs a	and nuts and (16)	flange nuts and	(8) studs.
• • • •	etch(es) is acceptable if properly iden	_	
			
12. Remarks: Work Order #: 920305077	Defic	iency Report #: 1	N/A
Design Change Package #: N/A	Rev. N/A		
**System Inservice Test @ NOP/NK	<u> </u>		
			
CERTIFIC	ATE OF COMPLIANCE		
; }			; :
We certify that the statements made in this report are correct and the Section XI of the ASME Code and the National Board rules as defined			Ded above conforms to
J	ne "NR" stamp expires		_
, , , , , , , , , , , , , , , , , , , ,	_ 0 c	94	
Date 7/9 19.92 Signed PSESS Co. Nuclea	r port UV	Moberts or	incinal From
(repair organiz	stion) (auf	thorized representative)	(title)
· · · · · · · · · · · · · · · · · · ·	ATE OF INCOGMON		
CERTIFIC	ATE OF INSPECTION		
I, the undersigned, holding a valid commission issued by The Nationa	al Board of Boiler and Pressi	ure Vessel Inspectors, and	certificate of competency
issued by the state or province ofNew Jersey and em	ployed by Ark	wright Mutual In	surance Co
of MA have inspected the repair, modification or replaceme	nt describe in this report on	7-7 194	2 and state that to the
best of my knowledge and belief, this repair, modification or replaceme	nt has been made in accorda	ance with Section XI of the A	ASME Code and the National
Board rules as defined in the publication NB-102, current edition. By			
expressed or implied, concerning the repair, modification or replacem shall be liable in any manner for any personal injury or property dama	CONTRACTOR IN This (COOR		Indianate the second
i sugai de liague in any manner for any netsonal iniuty of diodeny dama	non or a loss of any blad or	runnemnore, neither the	Inspector nor his employer
	age or a loss of any kind aris	sing from or connected wit	h this inspection.
	age or a loss of any kind arise	sing from or connected wit Factory M	Inspector nor his employer the this inspection. utual System
	age or a loss of any kind arise	sing from or connected wit Factory M	nh this inspection. utual System

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work performed by	Public Service Ele	ctric & Gas Co	Nuclear D	ept. CJP #	S92 - 168
Foot of But	tonwood Road, Hanc	ocks Bridge, N) U 08038 .	(repair	organization's P. O. no. job. no.,etc.)
2. Owner Public	Service Electric a	and Gas Co.	r)		
Foot of But	tonwood Road, Hanc	ocks Bridge, N	IJ · 08038		
		(address)			
	ntification of nuclear power plateonwood Road, Hanc	ant Salem Nu		ing Station U	nit #1
	rment Building Ele			ions N	Tuclear Class II
	modified or replaced 1RCE				
	er Chicago Bridg				
	668 N/		N/A	N/A	1970
(m	fr.'s serial no.) (Nat'l. Bd. N	(a.)	urisdictional no.)	(other)	(year built)
d: Construction Code _	ASME Sec.III 1965	W/67		N/A	N/A
PS Spec. S-C	-1968 -DSD- 7123	(addenda)		(Code Case(s))	(Code Class)
6. Section XI	1983	Summ	er 83	N/A	
	(edition)	(addend	•		Case(s))
7. Applicable edition of AS	ME Code Section XI under wi	hich repairs, modificatio	ns, or replacements w	vere made: 1983_	S83 N/A
				(edition)	(addenda) (Code Case(s))
8. Applicable edition of Co	onstruction Code under which				W/67 N/A
			Sec. III/PS S	DEC (Code) (edition)	(addenda) (Code Case(s))
Design responsibilities			968-DSP-7123	· 	
Tests conducted: hydro	ostatic 🛭 pneumatic 🗓 de	sign pressure 🛭 pre	ssure N/A psi	Temp. N/A **	
Description of work_	Replace air lock	personnel hatc	h hinge not p	performed, weld	repair
	•	lional sheet(s) or sketch(es) is a	acceptable if property identifi	ied)	•
to sealing a	rea.				
<u> </u>	- 1 "		Do Si o i o	Daniel Hi	N /3
	Order #: 920211128			ency Report #:	N/A
Desig	m Change Package #		Rev. N/A	N/A	
See a	ttached pages for	Description of	Replacement.	N/A	
×× NC	System Inservice	near lest requ	irieu.		
		CERTIFICATE OF (COMPLIANCE		•
We certify that the statem	nents made in this report are o	correct and the repair. r	nodification or replace	ement of the items desc	cribed above conforms to
	ode and the National Board r	ules as defined in the p	ublication NB-102, cu	i i	
Certificate of Authorizatio	n no36	to use the "NR" s	tamp expires Oct.	_ 3,, 1994 _	,
211 11/22 10	07		0.1.0	lant	1 1 2 m
Date19,	Y Signed PSESG C	toNuclear Dep (repair organization)	10 10 700 10 10 10 10 10 10 10 10 10 10 10 10 1	orized representative)	rincipal Engr.
		fraken er Rennement	lanus		
		CERTIFICATE OF	INSPECTION		
I the understand heldi-	ng a valid commission issued	hy The National Board	of Roller and Pressure	Veccal Incommore and	d contificate of competence:
issued by the state or pro	· · · · · · · · · · · · · · · · · · ·			ight Mutual Ir	isurance co
	pected the repair, modification			7-1 19	and state that to the
	belief, this repair, modification				
Board rules as defined in	the publication NB-102, curre	nt edition. By signing t	his certificate, neither	the Inspector nor his e	nployer makes any warranty,
shall be liable in any man	ncerning the repair, modificationer for any personal injury or	on or rebiacement desc	anced in uns report. It	raimennois, neimer me na from or connected w	ith this inspection.
	mer tot atty personal injury of	p. specif demage of a	uny nation union	:::::::::::::: 17	
1 / . 7 7		///		Factory N	Mutual System
Date	992 Signed Jomes	E. Col	Commission	Factory M	futual System

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Page 1 of 21cm

1. Work perform	med by	Public Ser	rvice Elect	ric & G	as Co Nuclea	r Dept.	CUP	#S92-179	
		ittorwood Ro			(name)		(repa	ur organization's P. C), no. job. no.,etc.)
P P	ablic	: Service El	lectric and	Gas Co.	(address)				
z. Owner		ittorwood Ro			(name)				
					address				
Name, addres	s and id	entification of nuc	lear power plant_ oad, Hancoo	Sale	m Nuclear Gene ge, NJ 08038	rating St	ation	Unit #1	
		cal Volume			<u></u>			Nuclear C	lass II
	repaired	, modified or repla	ced 1CV171	Valve					
b: Name of ma		3/	neilan						
c: Identifying n		2X42D	N/A		N/A]	N/A	19	88
,		mtASME Draft	Pull Borno		(jurisdictional no.)		other)	(ve	ner built)
d: Construction	,	Valve Code		968	Q-	N/A	,,	2 ີ	. _ ,
0, 00		ANSI Bal	7 1969	(addenda)		(Code Case	(s))	(Code	Class)
S. Section XI		1983			Summer 83	N/	A		
 Applicable edi	tion of A	(edition)	n XI under which	repairs, mod	(addenda) lifications, or replacemen	nts were made:		Case(s)) S83	N/A
							(edition)	(addenda)	(Code Case(s))
Applicable edi	tion of C	Construction Code	under which rep	airs, modifica	itions, or replacements w	vere made: A	NSI B3:	1.7 1969	N/A ayl
. Design respo	nsihilitia	. PSE&G				- ·	asy (banks	(4000100)	(0004 0534(3))
D. Tests conduct			matic [] design	n pressure []	pressure NOP	osi Temp.	N/A S	ystem Inse	rvice Tes
		Replaced		i pressure u	prossure		-,		
i. Description o	" HOIK				h(es) is acceptable if property id	tantifical)			• • • • • • • • • • • • • • • • • • • •
			(Caronidae No esco)	silver(s) or shell	in(es) is acceptable if properly &	en in real	**		
)								- -	
2. Remarks:	Work	Order #: 9	900203005		Defi	ciency Re	port #	SMD 92-3	02
	Desi	gn Change I	Package #:	N/A	Rev. N/A				
	*See	attached pa	ages for De	scription	on of Replaceme	nt. N/Agre			
									
									
				CERTIFICAT	E OF COMPLIANCE			•	
We certify that ti	he state	ments made in th	is report are corri	ect and the re	epair, modification or rep	placement of the	e items de	scribed above c	anforms to
					n the publication NB-102				
Certificate of Au			5		"NR" stamp expires		_, 199	<u>L</u> .	
البالد		02		_	0.1	01.2		_	_
Date	19	9. <u>42</u> . Signed	PSE&G Co.			Kovery			Engr.
				(repair organizati	on) (4	suthorized represent		(title)	
				<u> </u>					
				CERTIFICA	TE OF INSPECTION				
I, the undersigned issued by the st			ission issued by . New Jersey		Board of Boiler and Pres	sure Yessel ins kwright M	pectors, au	nd certificate of Insurance	competency
of MA	have in	spected the repair		replacement	describe in this report of			9Z and state	
best of my know	ledge ar	nd belief, this repa	ir, modification o	r replacement	has been made in accor	dance with Sec			
Board rules as d	lefined i	n the publication I	NB-102, current e	dition. By sig	gning this certificate, nei	ther the Inspect	or nor his	employer makes	s any warranty,
expressed or im	plied, co	oncerning the repr	air, modification (or replaceme	nt described in this repo e or a loss of any kind a	rt. Furthermore	i, neither ti Sonnestest	ne inspector nor	nis employer
ZIIMII DA IIMDIS IU	i any ma	uner for any pers	Orial Injury of Bro	hairy damag	TO I I IUSS UI BIIY KIIIU B			Mutual Sy	
Date Oaril	14	19 <i>92.</i> Signed <u></u>	Cith	ellen	Commiss	sions <i>NB 78</i>	66 N	T1028	
7	•——	_	V	Authorized Inspec	tor)	(Natl.Bd.No.(incl	uding endors	ements)state or provid	nce and number)

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) METO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Public Service Electric & G	as Co Nuclear D	ept. CJP	#S92-188	
Foot of Buttonwood Road, Hancocks Bride	(name) ge, NJ 08038	(repa	ir organization's P. O.	no. job. no.,etc.)
FOOL OF BACAGEMACE ROOM, PRINCES BETO	(address)	 		
2. Owner Public Service Electric and Gas Co.	•			
	(name)			
Foot of Buttonwood Road, Hancocks Bride	e, NJ 08038	<u> </u>		
·	(address)		44 N_	
	am Nuclear Generat	ing Station	Unit #1	
Foot of Buttonwood Road, Hancocks Bride	ge, NU 08038)), =] === O]	
4. System Safety Injection	techanical Carlbon		Nuclear Cl	<u>ass 1</u>
a: Component repaired, modified or replaced <u>1A-SI-SN100A-</u> b: Name of manufacturer <u>Pacific Scientific</u>	Balanteat Sinuser			
c: Identifying nos. S/N 450 N/A	N/A	N/A	197	6
(mfr.'s serial no.) (Nat'l. Bd. No.)	(jurisdictional no.)	(other)		r built)
d: Construction Code PS Snubber Spec. 73-6402		N/A	1	, Dam,
ANSI 199607 1969 Ed. 1970 Ad	i.	(Code Case(s))	(Code C	ass)
6. Section XI	Summer 83	_N/A	,	,
(edition)	(addenda;		Case(s))	
7. Applicable edition of ASME Code Section XI under which repairs, mod	difications, or replacements w	ere made: <u>1983</u>	_S83	N/A
	•	(edition)	(addenda)	(Code Case(s))
8. Applicable edition of Construction Code under which repairs, modification	ations, or replacements were	made: _*		
*ASME Sec. III 1974 S	576, ANSI B31.7 19	69 Edc∞1970mA	odd . jáddenda:	(Code Case(s))
9. Design responsibilities PSFAG PS Snubber Spec.				
10. Tests conducted: hydrostatic [] pneumatic [] design pressure []		Temp. N/A		
11. Description of work Replaced mechanical snubber	r S/N 450 with med	hanical snubb	er	
	ch(es) is acceptable if properly identifie	d)	-	
_S/N_25872				
12. Remarks. Work Order #: 920919026	Poficio	ncy Report #:	N/A	
Design Change Package #: N/A	Rev. N/A	KY KELOKE T.	11/13	
See attached pages for Description		N/A_		
* VI-3 Preservice Exam	AI OI NOPIUMINIO			
				
CERTIFICA	TE OF COMPLIANCE			
No series that the second made in this country are never and the				-4
We certify that the statements made in this report are correct and the resection XI of the ASME Code and the National Board rules as defined in	• •		scriped above co	niorms to
	NR stamp expires	, 19		
15 02 36	Oct.	011	F	
Date 6/5 19.92 Signed PSE&G Co. Muclea	r Dept.	acro F	rincipal E	ngr-
6 (repair organizal	KATI) (BLUTHON	ized representative)	(mo•)	
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
CERTIFICA	ITE OF INSPECTION			
I, the undersigned, holding a valid commission issued by The National	Board of Boiler and Pressure	Vessel Inspectors an	nd contificate of c	ompeteem/
		ight Mutual I		
of MA have inspected the repair, modification or replacement	describe in this report on	4/28 , 19	02 and state	that to the
best of my knowledge and belief, this repair, modification or replacement				
Board rules as defined in the publication NB-102, current edition. By si expressed or implied, concerning the repair, modification or replacement	• •	•		•
shall be liable in any manner for any personal injury or property damage				
1 / 00		Factory.	Mutual Sys	
Date Jule 5 ,1992 Signed (Authorized Inspe	Commissions	ND 7366 AX	1/078	e and number
LAUTODZEG INSPE		erroanachienand eugotze	errorralerene or browne	e and unmost

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Page 1 of 1

,	s Co Nuclear Dep	r. wr	S92 - 190
	(name)		organization's P. O. no. job. no.,etc.)
Foot of Buttonwood Road, Hancocks Bridge			
2. Owner Public Service Electric and Gas Co.	address)		
	(name)		
Foot of Buttonwood Road, Hancocks Bridge	, ,		
	(dress)		
3. Name, address and identification of nuclear power plant Sales	<u>n Nuclear Generatir</u>	ng Station U	nit #1
Foot of Buttonwood Road, Hancocks Bridge	e, NJ 08038		
4. System Steam Generator Feedwater			uclear Class I
5. a: Component repaired, modified or replaced <u>1S14-FWSN-15B</u>]	Mechanical Snubber		
b: Name of manufacturer Pacific Scientific			1076
c: Identifying nos. S/N 488 N/A	N/A	N/A	<u> 1976 </u>
(mit 's serial no.) (Nat'i. 8d. No.) d: Construction Code <u>PS Snubber Spec</u> 73–6402	(jurjedictional no.)	(other) L644-4	(year built)
ANSI BARN 1969 Ed. 1970-Add		Code Case(s))	(Code Class)
	· Summer 83	_N/A	· COOR CASS
	(addenda)	(Code C	inse(s))
7. Applicable edition of ASME Code Section XI under which repairs, modi	•	•	
	•	(edition)	(addenda) (Code Case(s))
8. Applicable edition of Construction Code under which repairs, modificat	ions, or réplacements were ma	de: <u>* 1974</u>	S76N/A
*ASME Sec. II	I/ANSI B31.7	(Code) (edition)	(addenda) (Code Case(s))
9. Design responsibilities PSF&G 1969 Fd. 1970	Add./PS Snubber S		
10. Tests conducted: hydrostatic □ pneumatic □ design pressure □	pressure N/A psi	Temp. N/A *Ot	her
11. Description of work Replaced mechanical snubber	S/N 488 with mecha	mical snubbe	r
	(es) is acceptable if properly identified)		
S/N 27911.			
12. Remarks: Work Order #: 920919026	Poficion	y Report #:	N/3
Design Change Package #: N/A		Y NELVILLE	WA
See attached pages for Description		N/A	
*VI-3 Preservice Exam	or representation		
			, ,
	OF COMPLIANCE		,
CERTIFICATE		ant of the items done	rihad abaya aasfarma ta
CERTIFICATE We certify that the statements made in this report are correct and the rep	pair, modification or replaceme	and the second s	ribed above conforms to
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in	pair, modification or replacements the publication NB-102, current NB* stamp expires	and the second s	ribed above conforms to
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replaceme the publication NB-102, currer	and the second s	ribed above conforms to
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacements the publication NB-102, current NR* stamp expires	nt edition.	ribed above conforms to
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacements the publication NB-102, current NR* stamp expires	and the second s	ribed above conforms to
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacements the publication NB-102, current NR* stamp expires Oct.	nt edition.	ribed above conforms to
We certify that the statements made in this report are correct and the report section XI of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacements the publication NB-102, current NR* stamp expires	nt edition.	ribed above conforms to
We certify that the statements made in this report are correct and the report section XI of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacements the publication NB-102, current NR* stamp expires Oct (authorized)	nt edition. 19_94	incipal Engr.
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacement the publication NB-102, current NB* stamp expires OCT 1, Poly (authorized) E OF INSPECTION Board of Boiler and Pressure Version of the publication	nt edition. 19_94	certificate of competency
We certify that the statements made in this report are correct and the report section XI of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacement the publication NB-102, current NBT stamp expires OCT INSPECTION Country of Boiler and Pressure Veryed by Arkwrighted Arkwrighted Sescribe in this report on	representative) 19 94 1 representative)	certificate of competency surance Co PZ and state that to the
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacement the publication NB-102, current NB-102, curr	representative) 19 94 1 representative) 1 representative 1 representativ	certificate of competency surance Co PZ and state that to the ASME Code and the National
We certify that the statements made in this report are correct and the report and the report and the report and the report and the statement of the National Board rules as defined in Certificate of Authorization no	pair, modification or replacement the publication NB-102, current NB-102, curr	representative) 19 94 1 representative) 1 representative 1 representativ	certificate of competency surance Co PZ and state that to the ASME Code and the National inployer makes any warranty.
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacement the publication NB-102, current NB-102, curr	representative) 19 94 1 representative) 1 representative 1 repr	certificate of competency surance Co PZ and state that to the ASME Code and the National apployer makes any warranty, Inspector nor his employer
We certify that the statements made in this report are correct and the report of the ASME Code and the National Board rules as defined in Certificate of Authorization no	pair, modification or replacement the publication NB-102, current NB-102, curr	representative) 19 94 1 representative)	certificate of competency surance Co Zand state that to the ASME Code and the National inployer makes any warranty, inspector nor his employer th this inspection.
We certify that the statements made in this report are correct and the report and report and the report and report and	pair, modification or replacement the publication NB-102, current NB-102, curr	representative) Propresentative) Propresentative Propr	certificate of competency surance Co PZ and state that to the ASME Code and the National eployer makes any warranty, lespector nor his employer th this inspection.

rm may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229.

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Page 1 of 1

Work performed	by Public Ser	rvice Electric &	Gas Co Nuclea:	r Dept. CJP	#S92-191
•			(name)	(re)	peur organization's P. O. no. job. no.,etc.)
Foot of	Buttonwood Ro	oad, Hancocks Br	idge, NJ 08038_		
			(address)		
2. Owner Publ.	ic Service E	lectric and Gas	<u>co.</u>		
Doct of	Date word D	and Hamanales De	(name)		
FOOT OI	Buttorwood Re	oad, Hancocks Br			
3. Name, address and	t identification of our	Year namer plant S	(address) Salem Nuclear Gene:	rating Station	Imit #1
		oad, Hancocks Br		racing barerar	0.20 (12
	am Generator		.1440/ 10 0000		Nuclear Class I
• — —		iced <u>1S11-FWSN-1</u>	12B		
b: Name of manufa		fic Scientific			
c: Identifying nos	440	N/A	N/A	N/A	1976
	(mfr.'s serial no.)	(Nat'i, Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Coo	ie <u>PS Snubbe</u> r	r Spec. 73-6402		N/A	<u> </u>
		7 1969 Ed. 1970.	add.	(Code Case(s))	(Code Class)
6. Section XI	1983		Summer 83	<u>N/A</u>	
	(edition)		(addenda)	_ '	de Case(s))
7. Applicable edition of	of ASME Code Section	in XI under which repairs,	, modifications, or replacemen		
				(edition)	(addenda) (Code Case(s))
8. Applicable edition of			difications, or replacements w		Hay / 1
O Design responsibil			S76, ANSI B31.7 1	909 EQ. MASSIV MIN	ISb) / (addenda) (Code Case(s))
		PS Snubber Spec	re D pressure N/A	nei Trommo N/λ *	Other
			ober S/N 440 with		
_	····		or sketch(es) is acceptable if property is		
S/N 25893	•	(, , , , , , , , , , , , , , , , , , ,	· ,	
12. Remarks: Wo:	rk Order #: 9	3 20919026	Defi	ciency Report #	: N/A
		Package #: N/A	Rev. N/A		<u> </u>
			otion of Replaceme	nt. N/A	
*\!\	<u>T-3 Preservi</u>	ce Exam		 	
		CCDUI	FICATE OF COMPLIANCE		į
		CENTIF	TORTE OF COMPLANCE		Į
1		•	the repair, modification or rep		escribed above conforms to
			ned in the publication NB-102	2, current edition.	ļ
Certificate of Authoriz	ation no3(5 to us	e the "NR" stamp expires	ct._{//}3, 	4 -
Date 6/5	_19, <u>92</u> _ Signed	DEFIC Co -Nucl	lear Dont Q.J	. Robert	Principal From
* 7	_	(leben oith	anization) (authorized representative)	(file)
				Section 2	
		CERTI	FICATE OF INSPECTION		·
			ional Board of Boiler and Pres	ssure Vessel Inspectors,	and certificate of competency
		New Jersey and	ment describe in this report of	kwright Mutual	19 92 and state that to the
					the ASME Code and the National
					s employer makes any warranty,
expressed or implied	, concerning the rep	air, modification or replace	ment described in this repo amage or a loss of any kind a	ort. Furthermore, neither	the Inspector nor his employer
sitali De Hable III any	mainer or any pers	Some injury or property da	amage of a loss of ally killer	Factory.	Mutual System
Date Luce 9	,19 <i>92</i> Signed _		Commis	sions <i>NB 7866</i>	NJ 1028
'		(Authorized	inspector)	(Natl.Bd.No. (including endo	rsements) state or province and number)

m may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229.

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S)

TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1 of 1 Work performed by Public Service Electric & Gas Co. - Nuclear Dept. (repair organization's P. O. no. job. no.,etc.) Foot of Buttonwood Road, Hancocks Bridge, N Public Service Electric and Gas Co. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Salem Nuclear Generating Station Unit #1 3. Name, address and identification of nuclear power plant Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Steam Generator Feedwater Nuclear Class I 5. a: Component repaired, modified or replaced 1S-11FW-SN012A Mechanical Snubber Pacific Scientific b: Name of manufacturer 1980 c: Identifying nos. S/N 389 N/A N/A N/A (mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) d Construction Code PS Snubber Spec 73-6402 N/A ANSI Barbo 7 1969 Ed. 1970 Add. (Code Case(s)) 1983 Section XI Summer 83 N/A (addenda) (Code Case(s)) Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 **S83** Applicable edition of Construction Code under which repairs, modifications, or replacements were made: * *ASME Sec. III 1974 S76, ANSI B31.7 1969 Bell 1980 Addition (Code Case(s)) Design responsibilities PSE&G PS Snubber Spec 73-6402 Tests conducted: hydrostatic [] pneumatic [] design pressure [] pressure N/A psi Temp. N/A *Other Description of work Replaced mechanical snubber S/N 389 with mechanical snubber (use of additional sheet(s) or sketch(es) is acceptable if properly identified) S/N 25856. Work Order #: 920919026 Deficiency Report #: N/A Remarks: Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. *VT-3 Preservice Exam CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no. to use the "NR" stamp expires PSE&G Co. - Nuclear evitameserger beshoritual CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of __ New Jersey and employed by Arkwright Mutual Insurance Co

have inspected the repair, modification or replacement describe in this report on 4/44, 19 92 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this 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. Commissions NB 7866 NJ 1028 ule 5_.1992 Signed _

rm may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229.

(Authorized Inspector)

(Natl.Bd.No. (Including endorsements) state or province and number)

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by <u>Public Service Electric & Gas Co Nuclear Dept.</u> (name) CJP #S92-193 (reper organization's P. O. no. p. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	b. noetc.)
(address)	
2.Owner Public Service Electric and Gas Co.	
(name)	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
(address)	
3. Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	-
4. System Reactor Coolant Nuclear Class	<u> </u>
5 a: Component repaired, modified or replaced <u>Strubber 1C-PR-SN007</u>	
b: Name of manufacturer Pacific Scientific	
c: Identifying nos. 623 N/A N/A N/A 1976	
(mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) (year buil)
d: Construction Code ANSI B31.7 1969 N/A N/A I	
(edition) (addenda) (Code Case(s)) (Code Class)	
6. Section XI 1983 Summer 83 N389	
(edition) (addenda) (Code Case(s))	/3
· · · · · · · · · · · · · · · · · · ·	<u>/A</u>
· · · · · · · · · · · · · · · · · · ·	ode Case(si)
8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: * 1977 W79 164	
	ode Case(s))
9. Design responsibilities PSE&G	
10. Tests conducted: hydrostatic [] pneumatic [] design pressure [] pressure N/A psi Temp. N/A	
1. Description of work Replaced snubber SN #623 with snubber SN #17676	·
(use of additional sheet(s) or statch(es) is acceptable if properly identified)	
	
2. Remarks: Work Order #: 920919026 Deficiency Report #: N/A	
Design Change Package #: N/A Rev. N/A	
See attached pages for Description of Replacement. N/A	
Det deducte pages for Appel pers. or impression syst	
	 _
CERTIFICATE OF COMPLIANCE	
	
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above confor	ns to
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above confor Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.	ns to
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above confor Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	ns to
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We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above confor Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	etency to the National
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above confor Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	etency to the National warranty, mployer
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above confor Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	etency to the National warranty, mployer
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above confor Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	etency to the National warranty, mployer

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) [3] TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

: Work performed by Public Service Electric & C	Gas Co Nuclear D	ept. CJP #	S92-200
	(name)		organization's P. O. no. job. no.,etc.
Foot of Buttonwood Road, Hancocks Brid	ige, NJ 08038		
	(address)		
2. Owner Public Service Electric and Gas Co	o		
	(name)		
Foot of Buttonwood Road, Hancocks Brid	ige, NJ 08038	·	
	(address)	inn Obabian II	e. Lac. Ala
	lem Nuclear Generat	ing Station U	uic #i
Foot of Buttonwood Road, Hancocks Brid	ige, NJ 08038		uclear Class II
4. System Main Steam 5. a Component repaired, modified or replaced 12MS171 Valve		N	uciear crass in
	²		
	N/A	N/A	1974
			
(mtr.'s serial no.) (Nat'l. Bd. No.) d: Construction Code ASME Sec. III 1971 Summer 1	(Jurisdictional no.)	(other) N/A	(year built) 2
(edition) (addenda		(Code Case(s))	
6 Section XI 1983	Summer 83	N/A	(Code Class)
(edition)	(addenda)	(Code C	
7. Applicable edition of ASME Code Section XI under which repairs, m	· · · · · · · · · · · · · · · · · · ·		
7. Periodo oditor of North Code Code in A Citati White Period in	outhouthorio, or replacements is	(edition)	(addenda) (Code Case(s))
8. Applicable edition of Construction Code under which repairs, modifi	cations, or replacements were		
• •	ASME Sec. III	(Code) (edition)	(addenda) (Code Case(s))
9. Design responsibilities PSE&G		(2000) (2010)	(2000 (200))
10. Tests conducted: hydrostatic pneumatic design pressure	pressure N/A psi	Temp. N/A **O	ther
11. Description of work Replaced stem and plug ass			
	stch(es) is acceptable if properly identifie	md)	
<u></u>			
2. Remarks: Work Order #: 920923014		ncy Report #:	SMD 92-315
Design Change Package #: N/A	Rev. N/A		
See attached pages for Descript:		N/A	
** System Inservice Test Perform	med at NOP/NOT		
<u> </u>			
CERTIFIC	ATE OF COMPLIANCE		·
We certify that the statements made in this report are correct and the	repair, modification or replace	ment of the items descr	ribed above conforms to
Section XI of the ASME Code and the National Board rules as defined	•		
Certificate of Authorization no to use the	ne "NR" stamp expires -Oct.	_ 3,, , ¹⁹ 94.	,
Data 8/6 1092 Signed	and Oth	alixte ~	incinal Proc
Date 19.7 Signed PSESG CoNuclea		ized representative)	rincipal Engr.
CERTIFIC	ATE OF INSPECTION		·
I, the undersigned, holding a valid commission issued by The Nationa	al Board of Boiler and Pressure	Vessel Inspectors and	certificate of competency
issued by the state or province of <u>New Jersey</u> and en		ight Mutual In	surance Co
of MA have inspected the repair, modification or replaceme	nt describe in this report on	8-5, 195	and state that to the
best of my knowledge and belief, this repair, modification or replaceme			
Board rules as defined in the publication NB-102, current edition. By expressed or implied, concerning the repair, modification or replacement.	signing this certificate, neither t lent described in this report. F	ure inspector not his en urthermore, neither the	ipioyer makes any warranty, Inspector nor his employer
shall be liable in any manner for any personal injury or property dama		g from or connected wit	th this inspection.
67 02 () (6/		Factory M	lutual System
Date 8-1 1976 Signed Comba C. Com	Commissions		
(Authorized Insp	ector Al	Rti Hd.No. (includina endorseme	ents)state or province and number):

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Public Service Electric & Gas Co Nuclear Dept.	CJP #S92-202
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	(repail organization's P. O. no, job. no ,etc.,
2. Owner Public Service Electric and Gas Co. (address)	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
3. Name, address and identification of nuclear power plant Salem Nuclear Generating Stati Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	on Unit #1
4 System Service Water	Nuclear Class II
5. a: Component repaired, modified or replaced 12SW72 Valve	
b: Name of manufacturer Masoneilan	
c: Identifying nos. N-00113-40-2 N/A N/A N/A	1974
(mft.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other disconstruction Code ASME Sec. III 1968 Winter 1970 N/A	tyear built; 2
ANSI R3:10=17 1969 Ed. 19720-Add. (Code Case(5)) 6. Section XI 1983 Summer 83 N/A	(Code Class)
(edition) (addenda) 7 Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 19	(Code Case(s)) 83 S83 N/A
8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: *	dition) (addenda) (Code Case(s)) 1968 W70 N/A
*ASME Sec. III/ANSI B31.7 1969 Ed. 1970 Add.	(edition) (addenda) (Code Case(s))
9. Design responsibilities PSE&G	3 +O+box
0. Tests conducted hydrostatic pneumatic design pressure pressure NOP psi Temp. N/	A *Other
1. Description of work Performed weld repair on valve body.	
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)	
2. Remarks. Work Order #: 911114155	. 1
Deficiency Report #: SMD 92-321	
*System Inservice Test Performed at NOP.	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and the repair, modification or replacement of the ite Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	ms described above conforms to 9_94.
	· · · · · · · · · · · · · · · · · · ·
Date 7/4 19.92 Signed PSESG Co.—Nuclear Dept. Q.J. Rolux to (repair organization) (authorized representative)	Principal Engr.
CERTIFICATE OF INSPECTION	
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectional by the state or province of New Jersey and employed by Arkwright Muta	tors, and certificate of competency IAL Insurance Co
of MA have inspected the repair, modification or replacement describe in this report on 5/17/ best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector n	, 1952 and state that to the XI of the ASME Code and the National or his employer makes any warranty,
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, ne shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or configuration. Fact	oither the Inspector nor his employer sected with this inspection.
Date 7/4 1992 Signed M S Hewith Commissions Pa 2056	
	endorsements)state or province and number)

FORM NR-1 REPORT OF REPAIR ₩ MODIFICATION □ OR INSTALLATION OF REPLACEMENT(S) □ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

work performed by Public Service Electric & G	as Co Nuclear	Dept. CJP	#S92-203 Rev. 1
	(name	[repa	ir organization's P.O. no. job no.,etc.:
Foot of Buttonwood Road, Hancocks Brid	ge, NJ 08038		
2. Owner Public Service Electric and Gas Co	(BOO'ess)		
2. Owner <u>Public Service Electric and Gas Co</u>	(name:		
Foot of Buttonwood Road, Hancocks Brid	•		
call the second of the second	em Nuclear Gener	mting Station	Imi+ #1
3. Name address and identification of nuclear power plant Sal Foot of Buttonwood Road, Hancocks Brid		acing station	OILL #1
4 System Service Water	ge, 10 00030		Nuclear Class II
5 a Component repaired, modified or replaced 12SW58 Valve			
b. Name of manufacturer Masoneilan			
c Identifying nos. N-00113-39-2 N/A	N/A	N/A	1974
(mfr.'s serial no.) (Naf'l Bd. No.	(jurisdictional no.)	(other)	(year built)
d Construction Code ASME Draft Code for Pumps &	Valves 1968 Ed.	1970 Add. N/A	22
ANSI B31.7 1969 of Feb. 1970 Add. (addenda		(Code Case(s))	(Code Ciass)
6. Section XI 1983	Summer 83	N/A	
(edition)	(aodenda;	(Coa	Case(s);
7 Applicable edition of ASME Code Section XI under which repairs, mo	odifications, or replacemen	nts were made: <u>1983</u>	S83 N/A
		(edition)	(addenda) (Code Case(s))
8 Applicable edition of Construction Code under which repairs, modifi-			
	ode for Pumps &		n) (addenda. (Code Case(s))
9 Design responsibilities PSE&G 1968 Fd. 197			
10. Tests conducted: hydrostatic [] pneumatic [] design pressure [_ps: Temp. N/A *O	
11. Description of work Replaced valve bolting and	performed weld	repair on valve	body.
(use of additional sheet(s) or ski	etch(es, is acceptable if properly id	dentified;	
			
12. Remarks: Work Order #: 911114153			
Deficiency Report#: SMD 92-320			
*System Inservice Test Performed	at NOP		
CERTIFICA	ATE OF COMPLIANCE		
We certify that the statements made in this report are correct and the	·		scribed above conforms to
Section Xi of the ASME Code and the National Board rules as defined Certificate of Authorization no	ne "NR" stamp expires	., current eathorn.	
	· · · · · · · · · · · · · · · · · · ·	3/1 / 94	
Date 7/7 19.92 Signed PSESG Co. Nuclea	r Dept. G:	I Keberto F	rincipal Engr.
(repair organize	ation) (i	authorized representative)	(fitte)
	المستكار في المستويدة والمستويدة والمستويدة والمستويدة		
CERTIFIC	LATE OF INSPECTION		
I, the undersigned, holding a valid commission issued by The National	al Board of Boiler and Pres	ssure Vesse! Inspectors, ar	nd certificate of competency
issued by the state or province of New Jersey and em	nployed by <u>Arl</u>	wright Mutual I	nsurance Co
of have inspected the repair, modification or replaceme	nt describe in this report o	on <u>(a-25</u> , 19	992 and state that to the
best of my knowledge and belief, this repair, modification or replaceme Board rules as defined in the publication NB-102, current edition. By	int has been made in accor signing this certificate, heli-	ther the Inspector nor his	employer makes any warranty
expressed or implied, concerning the repair, modification or replacem	nent described in this repo	rt. Furthermore, neither the	he Inspector nor his employer
shall be liable in any manner for any personal injury or property dama	age or a loss of any kind a	rising from or connected	with this inspection.
Date 7-8 ,1992 Signed Jones E. Col	✓ Commiss		Mutual System
LAuthorized Insc	ector)		ements)state or province and number)
		· · · · · · · · · · · · · · · · · · ·	

FORM NR-1 REPORT OF REPAIR [MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) A TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work penormed b	, Public Serv	iœ Electi	ric & Gas Co	o Nuclear	Dept. CJP	#S92-215	
Foot of B	uttorwood Roa	d, Hancock	s Bridge, 1	U 08038	(Te p)	air organization's P. O.	no joe no leto
2 Owner Publi	c Service Ele	ctric and	Gas Co.	3			
Foot of B	uttonwood Roa	d, Hancock	us Bridge, 1	U 08038		· · · · · · · · · · · · · · · · · · ·	
			(address:]	-bi quabi	72i	
3 Name address and					ating Station	OUIF #1	
	uttonwood Roa		s Briage, I	U 08038		· · · · · · · · · · · · · · · · · · ·	
	ical Volume C					Nuclear Cl	ass 11
5 a: Component repaire	d, modified or reptace	c_1CV52 \	/alve				
b: Name of manufac	turer Velan						· · · · · · · · · · · · · · · · · · ·
cridentifying nos	0427	N/A		N/A	N/A	198	37
	(mt 's serial no.)	(Nat': Bd. No.)		(jurisdictional no.)	(other)	(ye	ar built;
d: Construction Code	: Westinghous	e E Spec.	G-676241 Re	. 1	N/A	2/	<i>'</i>
	1969 Ed 197		(addenda)		(Code Case(s))	(Code	Classi
6. Section Xi	1983		• -	mer 83	N/A	, (5525	J. J
o. 500001170	(edition)		(adder			ie Caso(s))	
7. Applicable edition of		Yl under which	•	•		S83	N/A
7. Applicable edition of	ASIVIE CODE SECTION	A Under Which	repairs, mounicati	ons, or rapiacement			
					(edition)	(addenda)	(Code Caso(s))
Applicable edition of							
		tingnouse	-	676241 Rev.		on) (addenda)	(Code Case(s))
9 Design responsibilit				1969 Ed. 19			
				ssure <u>NOP</u>	psi Temp. N/A *(other	
1. Description of wor	k Replaced v	alve disc	assembly.				
		(use of additional	sheet(s) or sketch(es) is	acceptable if property ide	entified)		
					· ·		•
2. Remarks. WOY	k Order #: 90	1104007		Defic	iency Report #:	SMD 92-35	51
Des	ign Change Pa	ckage #: 1	V/A	Rev. N/A			
	attached pag				t. N/A		
	stem Inservic				<u> </u>		
, <u></u>	SCEN TIBELVIC	e 1630 161	TOTICA GC	····			
			CERTIFICATE OF	COMPLIANCE			
			02//11/04/20/	00 1102	•		
We certify that the star	ements made in this	report are corre	ct and the repair,	modification or repl	acement of the items de	scribed above co	onforms to
Section XI of the ASMI	E Code and the Natio	nal Board rules	as defined in the	publication NB-102,	current edition.		
Certificate of Authoriza	ition no		_ to use the "NR"	stamp expires —ce	19_9	1 _·	
						- • •	
Date :7-12	19,92 Signed		-Nuclear Dep				ingr
		(1	repair organization)	(a.	uthorized representative)	(title)	
······································		the same of the sa	**************************************				
1			CERTIFICATE OF	INSPECTION			`
I, the undersigned, ho	iding a valid commiss	sion issued by T	he National Board	of Boiler and Press	sure Vessel inspectors, a	nd certificate of	competency
issued by the state or		ew Jersey		·	wright Mutual .	insurance (<u>x</u>
	inspected the repair,					and state	
					dance with Section XI of the		
					her the Inspector nor his		
					t. Furthermore, neither t ising from or connected		
٠.	/	"July or proj	Conty damage of a	ioss of ally killer all	Factory	Mutual Sys	stem
Date 6-13	_,19 <i>92</i> -Signed	Lames 5	· losh	Commissi	4/5 /1/	4 -	
	7	(Ai	thorized Inspector)		(Natl.Bd.No. (including endors	ements)state or provin	ice and number)
		<u>`</u>					

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1	Work performed by Public Service Electric & Gas Co Nuclear Dept. CJP #S92-216	
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (repear organization's P.O. no. job. no.,etc.	<u>-</u>
2.	wner Public Service Electric and Gas Co.	
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	_
3.	Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1	
-	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
	ystem Steam Generator Blowdown Nuclear Class II	
5	Component repaired, modified or replaced 13GB4 Valve	
	b: Name of manufacturer Masoneilan	
	c: Identifying nos. N00130-1-3 N/A N/A N/A 1972	
	(mfr.'s serial no.) (Nat'l. 8d. No.) (Jurisdictional no.) (other) (year built) d: Construction Code ASME Sec. III 1971 Summer 1971 N/A 2	
6.	(edition) (addenda) (Code Case(s)) (Code Class) Section XI 1983 Summer 83 N/A	
7 .	(Code Case(s)) Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A	
8.	Applicable edition of Construction Code under which repairs, modifications, or replacements were made: (edition) (addenda) (Code Case) * 1971 S71 N/A)
	*ASME Sec. III/ANSI B31.7 1969 Ed. 1970 Add. (Code) (edition) (addenda) (Code Case)	(2)
9.	Design responsibilities PSE&G	
10.	Tests conducted: hydrostatic D pneumatic D design pressure D pressure NOP psi Temp. N/A *Other	
11.	Description of work Replaced plug and stem assembly.	_
	(use of additional sheet(s) or statch(es) is acceptable if properly identified)	
		÷
10	Remarks: Work Order #: 920313127	—
14.	Deficiency Report #: SMD 92-353	_
	See Attachment for Replacement *System Inservice Performed at NOP	_
	500 200000 200 200 200 200 200 200 200 2	_
	CERTIFICATE OF COMPLIANCE	
١,	e certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to	
	oction XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.	
	ertificate of Authorization no. 36 to use the "NR" stamp expires 0ct 3 19 94.	Į
١.	ate 8/7 19,92 Signed pseus co-Nuclear Dept. QJR Lert Principal Engr.	
1,	19,7 Signed psess co.—Nuclear Dept. 4 / 10 / 10 / 10 Principal Engr. (repair organization) (authorized representative) (title)	1
L		
Γ	CERTIFICATE OF INSPECTION	٦
	CONTINUALE OF MORECTION	
1	the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency sued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co	
1 1	wed by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co MA have inspected the repair, modification or replacement describe in this report on	-
τ	est of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the Nation	ai
E	pard rules as defined in the publication NB-102, current edition. By signing this certificate, neither the inspector nor his employer makes any warrant	y.
	pressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employed	٢ļ
5	all 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	-
10	ate 8-10 ,1912 Signed James 2- Cosh Commissions NJ373	_ {
L	(Authorized Inspector) (Natl.Bd.No.[Including endorsements)state or province and number)	

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1.	Work performed by	, Public Service	Electric & Gas	Co Nuclear	Dept. CJP	S92-218	
	Foot of Bu	rttonwood Road,	Hancocks Bridge	name) , NJ 08038	(repair	organization's P. O.	no. job. no.,etc.)
			(ad	dress)			
2.	Owner Public	Service Electr	ic and Gas Co.				
	Foot of Bu	attonwood Road,		, NJ 08038	·		
			(addi	ww) Nuclear Genera	time Station I	Jnit #1	
3.		dentification of nuclear povertionwood Road,	· · · · · · · · · · · · · · · · · · ·		CIII SCACICII	AILC #1	
4.		Generator Blow			<u> </u>	iuclear Cl	ass II
	a: Component repaired	l, modified or replaced	Valve 11GB4	· · · · · · · · · · · · · · · · · · ·			
	b: Name of manufactu						
	c: Identifying nos	N001301-1	N/A	N/A	N/A	197	/2
		(mfr.'s serial no.) [;] (Nat AMSE III 1971	71. Bd. No.) S71	(jurisdictional no.)	(othor) N/A		s built)
6	Section XI	(edition) 1983	(addenda)	ummer 83	(Code Case(s)) N/A	(Code (Class)
٠.		(edition)		idenda)		Case(s))	
7 .	Applicable edition of A	ASME Code Section XI un	der which repairs, modific	ations, or replacements	were made: <u>1983</u>	S83	N/A
					(edition)	(addenda)	(Code Case(s))
8.	Applicable edition of (Construction Code under			made: <u>* 1971</u>	<u> 571</u>	N/A
_	Destas seeses selbilitate	. DEFIC	*ASI	ME III	(Code) (edition)	(addenda)	(Code Case(s))
9.	Design responsibilities Tests conducted: hyd		design pressure []	pressure N/A ps	Temp. N/A **		
10. 11.	-	Replaced plug			10mp. 1711		
	Booting and it work		of additional sheet(s) or sketch(e		fied)		
7		`	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
			·				
12.		Order #: 92031					
		<u>ciency Report #</u> em Inservice Te					
	<u></u>	Ell Hiselvice le	sc e nor/nor	· · · · · · · · · · · · · · · · · · ·			
Γ				, , , , , , , , , , , , , , , , , , , 			
1			CERTIFICATE	OF COMPLIANCE			
١	Ve certify that the state	ments made in this repor	t are correct and the repa	ir, modification or replac	ement of the items desc	ribed above co	onforms to
1	Section XI of the ASME	Code and the National B	oard rules as defined in t	ne publication NB-102, co			
1	Certificate of Authorizati	ion no36	to use the "N	R" stamp expires Oct	. 3, 19_94		
[Date 9- / 1	9,7 2_Signed DOE	&G CoNuclear	Dent Shu	luki Pi	cincipal E	inar.
			(repair organization)		orized representative)	(title)	
-							
			CERTIFICATE	OF INSPECTION			
1	the undersigned, hold	ling a valid commission is			e Vessel Inspectors, and	certificate of c	ompetency
1	ssued by the state or p		Jersey and employ	· · · · / — — — — — — — — — — — — — — —	right Mutual In		
		spected the repair, modif nd belief, this repair, modi				タ <u>こ</u> and state ASME Code an	
E	Board rules as defined i	in the publication NB-102,	current edition. By signi	ng this certificate, neithe	r the Inspector nor his er	mployer makes	any warranty,
		oncerning the repair, mod anner for any personal inj					
				or a ress or any nine ansi	Factory 1	in this inspect futual Sys	stem .
۱	Date 7/1/92	19 <u>4 2</u> Signed <u>N</u> J			15 NG 6344 NIS		
		· · · · · · · · · · · · · · · · · · ·	(Authorized Inspector)	· · · · · · · · · · · · · · · · · · ·	Nati.Bd.No.(including endorsen	ients)state or provinc	se and number)

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1	Work perform	ed by Pu	blic Ser	rvice Elec	etric & Ga	s Co.	- Nuclear	Dept.	CUP #	S92-22 6	
						(neme:			(reper c	rganzation's P. O.	, no. job. no.,etc.:
	Foot c	of Butto	inwood Ro	oad, Hanco	ocks Bridg	e, NJ	08038				
						edoress:					
2. 0	wner Pu	iblic Se	rviœ E	lectric a	nd Gas Co.						
				_		name,				•	
_	Foot c	of Butto	inwood Ro	oad, Hanco	ocks Bridg	e, N	08038				
					•	idrees:			LJ * 1		
3.	Name, address						ear Gener	ating Sta	cion u	nic #1	
				bad, Hanc	ocks Bridg	e, Nu	08038			uclear C	lace II
	SystemN a: Component re	Main Ste		12MC	200 Orifia	o Filar				CLICAL C	1055 11
٠ د	b: Name of mar	-				<u>ė riai</u>	na		 -		
	c: Identifying no			N/Z			N/A	N	/A	19	 69
	o. Romanying no		erial no.)	(Nat'l. Bd. No.		Ourise	lictional no.)		ner)		ar built)
	d: Construction	•	•	•	W/1970	4 2		N/A	,	2	,
		31.1 196			(addenda)			(Code Case(s)		(Code	Class)
6:	Section XI		1983		, ,	Summer	- 83	N/A		·	
			(edition)			(addenda)			(Code C	(E))	
7.	Applicable edition	on of ASME	Code Section	n XI under whi	ch repairs, modi	fications,	or replacements	were made: _	1983	_S83	N/A
									(edition)	(addenda)	(Code Case(s))
8.	Applicable edition	on of Consti	ruction Code	under which re	epairs, modificat	ions, or re	eplacements we	re made: 🚖	<u> 1969</u>	<u> 1970 </u>	_N/A
					*ANSI B3	1.7/A	ISI B31.1	1967 (Code) (edition)	(addenda)	(Code Case(s))
9.	Design respons								. 0		
10.					ign pressure 🛚			si Temp.	78° **C	ther	
11.	Description of	workF	eplaced	-	and replac		-				
				(use of addition	nal sheet(s) or sketch	(es) is accer	otable if properly ider	tlified)			
									- ,		
13-	Remarks:	Work Or	dor #. (910830076			Defic	iency Rep	ort #•	SMD 92-4	 52
12.				Package #			ev. N/A	rery vep	JIC #.	JE 4.	<i></i>
•					Descriptio			t. N/A			
•					performed				-		
Γ		<u></u>	41. 44.40.00	100		- W		 =			
-					CERTIFICATI	OF CO	MPLIANCE				
1				·						dhad abass a	
	ection XI of the									noed above co	on amioinc
1	ertificate of Auth				to use the	•		-	19		Ì
	01-	0.		3			\(\sigma_1 \)	101	7 - 34		
0	ate <u>8/5</u>	19, <u>7%</u>	Signed	PSE&G O	oNuclear	Dept	_ <u> </u>	thorized representati		incipal	Engr.
-	Ň				(repair organizatio	n)	(aur	nickfac labiaseum	·····)	firmel	
1					CERTIFICAT	e of ins	PECTION				
١,	the undersigned	d holding a	valid commi	issian issued b	v The National S	Roard of E	Poiler and Press	um Veccel Inch	has anne	certificate of	~mneten~
	sued by the stat				ey and empl			wright Mu			
0	/h	nave inspect	ed the repair	, modification	or replacement	describe	in this report on	6-18	195	2 and state	that to the
b	est of my knowle	edge and be	ilef, this repa	ir, modification	or replacement	has been	made in accord	ance with Section	on XI of the	ASME Code as	nd the National
8	oard rules as de xpressed or imp	on concer blied concer	publication t	ND-102, Current air modification	t edition. By Sig n or replacemen	ning this It describ	connicate, neith ed in this report	ei me inspecto . Furthermore	rior nis en neither the	ipioyer makes Inspector nor	his emolover
s	hall be liable in	any manner	for any pers	onal injury or r	property damage	or a los	of any kind ari	sing from or ∞	nnected wi	th this inspect	ion.
1	• .) /				J-Fg	ctory M	autual Sy	stem
P	ato <u>8-6</u>	,1917	Signed	James 7	· un		_ Commissio		<u>ر</u>		
1			/		(Authorized Inspect	OI)		(MEIL DO. NO. (INCIDO	"A AUGGISSU	ents)state or provin	~ one number)

FORM NR-1 REPORT OF REPAIR [MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

: Work per	formed by Public Ser	vice Electric &	Gas Co Mu	clear Dept.	CUP #	S92 -22 7	
Foot	t of Buttonwood Ro	ad, Hancocks Br	ridge, NJ 080	38	# 9 0&/	organization's P. C.	nc lot house
			(Address				
2 Owne:	Public Service El	ectric and Gas	<u> </u>				
Foot	t of Buttonwood Ro	ad, Hancocks Br	idge, NJ 080	38			
	dress and identification of nuc		Salem Nuclear		Station U	nit #1	
	t of Buttonwood Ro	au, hancocks bi	lage, no oat	730	<u>N</u>	uclear Cla	ec II
4 System	Main Steam	1 4MC160 1/57				ucieal Ci	
	ent repaired, modified or repla		.ve				
	manufacturer Fishe	1106	N/2		N/A	197	<u></u>
c. mentityin	ng nos. 5725441						
d. Canada	(mth 's serial no.) etion Code <u>ASME_Sec. I</u>	(Nat', Bd. No.)	fjurisdictiona 1972 -		(other: /A	? ?	r built;
	B31.7 1969 Edwind				Case(s):	<u></u>	
6. Section XI	1983	/ O ALICE. 1855	onda) Summer 83		N/A	(Code (,ia33;
d. Section A	[edition]		(addenda)			Case(s))	
7. Applicable	edition of ASME Code Section	n XI under which repairs	•	placements were ma	de: 1983	S83	N/A
O Applicable	adding of Constanting Code				(edition) * 1971	(addenda) S72	N/A
8. Applicable	edition of Construction Code		Sec. III/	ements were made:			
O Desire re	sponsibilities PSE&G		B31.7 1969 E	1970 344	(Code: (edition)	(addenda)	(Code Case(s))
	ducted hydrostatic D pneu				p. N/A **C	ther	
10. Tests cond	n of work_Replaced_	walve bolting a	ond plussore				
11 Description	of work_ Replaced	(use of additional sheet(s)			,		
to fa	acilitate valve ma						
12. Remarks:	Work Order #: 9	20928024		Deficiency 1	Report #:	SMD 92-35	4
	Design Change F		Rev. 1	N/A			
	See attached pa	ges for Descrip	otion of Repla	acement. N	/A		
	** System Inser	vice Test Perfo	ormed at NOP/1	TOV			
							
		CERTI	FICATE OF COMPLIA	NCE			
144			the consist modificati		of the language days		
	at the statements made in the the ASME Code and the Nat					SIDEO ABOVE CO	monns to
1	Authorization no.		se the "NR" stamp ex		, 19_94_	•	
01				0.777)		
Date _5/	719, <u>92</u> Signed	PSE&G CoNucl		ce V. Kabe	· · · · · · · · · · · · · · · · · · ·		ngr.
1		(repair org	janizalion)	(authorized repr	resentative)	(title)	
				, <u></u>			
		CEHT	IFICATE OF INSPECT	NON'			
	r and bathless a referen	antan languad 6 - The Atla	tanal Banad of Both is	and Decay Me -	l lana ant	i a andre a company	
	igned, holding a valid commi e state or province of		ional Board of Boiler I employed by	and riessure Vesse Arkwriaht	Inspectors and Multiplat In	i centricate of c isurance C	ompetency O
of MA	have inspected the repair				190	<u> </u>	that to the
best of my kr	nowledge and belief, this repa	ir, modification or replace	ement has been made	in accordance with		ASME Code an	d the National
	as defined in the publication I						
	implied, concerning the repa e in any manner for any pers						
Silan be habi	13 On	oral injury or property d	diguest of a loss of al	i, and along hom	Factory M	utual Sys	tëm
Date	1.5 ,191 Signed	Jones Z.		Commissions <i>W</i>	J 513		
1	_	(Authorized	Inspector)	(Nati.Bd.No	o.(including endorsen	nents)state or provinc	e and number)
		7					

FORM NR-1 REPORT OF REPAIR (MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	Work performed by Public Service Elec	tric & Gas Co.	- Nuclear 1	Dept. CJP :	#S92 - 228
		(name:		(repair	organization's P.O. no. job. no. etc.
	Foot of Buttonwood Road, Hanco	cks Bridge, NU	08038		
	nalis Gardina Markais as	(address;			
2	Owner Public Service Electric and				
	Foot of Buttonwood Road, Hanco	(name) The Bridge NT	00030		
	FOOL OF BULLDIAWOOD ROAD, MAIRO		08038		
3	Name, address and identification of nuclear power plant	(address) · Salem Nucl	ear General	ting Station I	Init #1
J.	Foot of Buttonwood Road, Hanco			chy bacton t	7.110 1
4	System Service Water	<u> </u>		ŀ	Vuclear Class II
	a Component repaired, modified or replaced 135W5	8 Valve			
	b: Name of manufacturer <u>Masoneilan</u>				
	c: Identifying nos. N-00113-40-3 N/A		N/A	N/A	1974
	(mft.'s senat no.) (Nat'l Bd. No.)		fictional no.)	(other)	(year built;
	d. Construction Code ASME Draft Code for	r Pumps & Valve	<u>s 1968 Ed.</u>	1970 Add. N/A	2
	ANSI B31.7 1969 Bd. 1970 Add	• (addenda)	•	(Code Case(s))	(Code Class)
6	Section Xi 1983	Summer	83	_N/A	
	(edition)	(adcenda;		•	Case(s);
7	Applicable edition of ASME Code Section XI under which	ch repairs, modifications,	or replacements	were made: <u>1983</u>	S83 N/A
				(edition)	(addenda) (Code Case(s)
8	Applicable edition of Construction Code under which re				
_		E Draft Code fo	•	•	(addenda: (Code Case(s)
9	Design responsibilities PSE&G ANS				
10.	Tests conducted hydrostatic D pneumatic D design			Temp. N/A *U	ner
11.		al sheel(s) or sketch(es) is acce			
	pase or addition	Strategies of Stategies is seen	plable ii plopelly loelili	· -	
12.	Remarks. Work Order #: 911114159				
12.	Remarks. Work Order #: 911114159 Deficiency Report #: SMD	92-373			
12.	Deficiency Report #: SMD		>.		
12.			>.		
12.	Deficiency Report #: SMD	erformed at NOF			· · · · · · · · · · · · · · · · · · ·
12.	Deficiency Report #: SMD				
<u> </u>	Deficiency Report ‡: SMD *System Inservice Test P	certificate of col	MPLIANCE	e∼ent of the items des	cribed above conforms to
	Deficiency Report #: SMD *System Inservice Test P *System Inservice Test P We certify that the statements made in this report are core Section XI of the ASME Code and the National Board rule	CERTIFICATE OF CON	MPLIANCE		cribed above conforms to
	Deficiency Report #: SMD *System Inservice Test P *System Inservice Test P *System Inservice Test P	CERTIFICATE OF CON	MPLIANCE liftication, or replacitication NB-102, co		cribed above conforms to
	Deficiency Report #: SMD *System Inservice Test P *System Inservice Test P We certify that the statements made in this report are consection XI of the ASME Code and the National Board rule Certificate of Authorization no. 36	CERTIFICATE OF CON	MPLIANCE liftication, or replacitication NB-102, co		cribed above conforms to
	Deficiency Report #: SMD *System Inservice Test P *System Inservice Test P We certify that the statements made in this report are core Section XI of the ASME Code and the National Board rule	CERTIFICATE OF CON- cect and the repair, modes as defined in the public to use the "NR" stand. Nuclear Dept.	MPLIANCE ilification or replacitication NB-102, or expires Q.J.		cribed above conforms to
	Deficiency Report #: SMD *System Inservice Test P *System Inservice Test P We certify that the statements made in this report are consection XI of the ASME Code and the National Board rule Certificate of Authorization no. 36	CERTIFICATE OF CON	MPLIANCE ilification or replacitication NB-102, or expires Q.J.	Polar f	cribed above conforms to
	Deficiency Report #: SMD *System Inservice Test P *System Inservice Test P We certify that the statements made in this report are consection XI of the ASME Code and the National Board rule Certificate of Authorization no. 36	CERTIFICATE OF CONTECT AND THE REPAIR MODES AS DEFINED IN THE PUBLIC TO USE THE "NR" STATE TO USE THE "NR" STA	MPLIANCE Infication, or replace ication NB-102, or open expires Q.J. (authorized)	Polar f	cribed above conforms to
	Deficiency Report #: SMD *System Inservice Test P *System Inservice Test P We certify that the statements made in this report are consection XI of the ASME Code and the National Board rule Certificate of Authorization no. 36	CERTIFICATE OF CON- cect and the repair, modes as defined in the public to use the "NR" stand. Nuclear Dept.	MPLIANCE Infication, or replace ication NB-102, or open expires Q.J. (authorized)	Polar f	cribed above conforms to
	Deficiency Report #: SMD *System Inservice Test Provided	CERTIFICATE OF COL sect and the repair, modes as defined in the publ to use the "NR" stan . Nuclear Dept. (repair organization) CERTIFICATE OF INS	MPLIANCE Infrication, or replace ication NB-102, or replace ication NB-102	Power representative)	rincipal Engr. (Rie) d certificate of competency
	Deficiency Report #: SMD *System Inservice Test Provided	CERTIFICATE OF COL sect and the repair, modes as defined in the public to use the "NR" stand to use the "NR" stand to use the "NR" stand "Pept". CERTIFICATE OF INSTITUTE National Board of Ity and employed by	MPLIANCE iffication or replace ication NB-102, or inplexpires Grant (authority) PECTION Boiler and Pressur Arkw	re Vessel Inspectors, and	rincipal Engr. (Rie) d certificate of competency nsurance Co
	Deficiency Report ‡: SMD *System Inservice Test P We certify that the statements made in this report are consection XI of the ASME Code and the National Board rule Certificate of Authorization no. 36 Date 7/7 19.92 Signed PSESG Commission issued by the undersigned, holding a valid commission issued by seven by the state or province of New Jerse of May have inspected the repair, modification of the state of the policy may be a supported the repair, modification of the state of the policy may be a supported the repair, modification of the state of the policy may be a supported the policy may be a supported to the poli	CERTIFICATE OF COI sect and the repair, modes as defined in the public to use the "NR" stand. Nuclear Dept. (repair organization) CERTIFICATE OF INSTITUTE National Board of Ity and employed by a replacement describe	MPLIANCE Infication or replace ication NB-102, complex pires Q.J. (authorized precedure) CPECTION Boiler and Pressure Arkwein this report on	re Vessel Inspectors, and right Mutual In	rincipal Engr. d certificate of competency nsurance Co 92 and state that to the
	Deficiency Report ‡: SMD *System Inservice Test Provided	CERTIFICATE OF COL sect and the repair, modes as defined in the public to use the "NR" standard or gangalion. CERTIFICATE OF INSTITUTE National Board of Ity and employed by or replacement describe or replacement has been	MPLIANCE iffication or replace ication NB-102, or inp expires G.J. (author) PECTION Boiler and Pressur Arkw in this report on made in accordance.	re Vessel Inspectors, and right Mutual Income with Section XI of the	rincipal Engr. d certificate of competency nsurance Co 22 and state that to the ASME Code and the National
	Deficiency Report ‡: SMD *System Inservice Test P *Section XI of the ASME Code and the National Board rule Certificate of Authorization no. 36 Date 7/7 19.92 Signed PSESG Co *Inservice Test P *System Inservice Test P *Section XI of the ASME Code and the National Board rule *Signed PSESG Co *Inservice Test P *System Inservice Test P *Section XI of the ASME Code and the National Board rule *Signed PSESG Co *Inservice Test P *System Inservice T	CERTIFICATE OF COI sec. and the repair, modes as defined in the public to use the "NR" stand to use the "NR" stand to use the "NR" stand (repair organization) CERTIFICATE OF INSTITUTE TO The National Board of Ity and employed by a replacement describe or replacement has been edition. By signing this or replacement describe	MPLIANCE infication or replace ication NB-102, concept of the expires Q.J. (authorized) (b) CECTION Boiler and Pressure Arkw. in this report on made in accordance in accordance of the ed in this report.	re Vessel Inspectors, and right Mutual Informed with Section XI of the rethe Inspector nor his effort the Inspector nor his effort t	certificate of competency asurance Co 22 and state that to the ASME Code and the National mployer makes any warranty.
: : : : : : : : : : : : : : : : : : :	Deficiency Report ‡: SMD *System Inservice Test P *System Inservice Test P *System Inservice Test P *Section XI of the ASME Code and the National Board rule Certificate of Authorization no. Date 7/7 19.92 Signed PSECCO , the undersigned, holding a valid commission issued by ssued by the state or province of New Jerse *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the ASME Code and the National Board rule *Section XI of the National Board rule *Section XI o	CERTIFICATE OF COI sec. and the repair, modes as defined in the public to use the "NR" stand to use the "NR" stand to use the "NR" stand (repair organization) CERTIFICATE OF INSTITUTE TO The National Board of Ity and employed by a replacement describe or replacement has been edition. By signing this or replacement describe	MPLIANCE infication or replace ication NB-102, concept of the expires Q.J. (authorized) (b) CECTION Boiler and Pressure Arkw. in this report on made in accordance in accordance of the ed in this report.	re Vessel Inspectors, and right Mutual Information More with Section XI of the result of the Inspector nor his effort more, neither the nog from or connected with the section of the result of the result of the result of the section of the result of the section of the result of the section o	d certificate of competency asurance Co 22 and state that to the ASME Code and the National mployer makes any warranty. e Inspector nor his employer with this inspection.
	Deficiency Report ‡: SMD *System Inservice Test P *Section XI of the ASME Code and the National Board rule Certificate of Authorization no. 36 Date 7/7 19.92 Signed PSESG Co *Inservice Test P *System Inservice Test P *Section XI of the ASME Code and the National Board rule *Signed PSESG Co *Inservice Test P *System Inservice Test P *Section XI of the ASME Code and the National Board rule *Signed PSESG Co *Inservice Test P *System Inservice T	CERTIFICATE OF COI sec. and the repair, modes as defined in the public to use the "NR" stand to use the "NR" stand to use the "NR" stand (repair organization) CERTIFICATE OF INSTITUTE TO The National Board of Ity and employed by a replacement describe or replacement has been edition. By signing this or replacement describe	MPLIANCE infication or replace ication NB-102, concept of the expires Q.J. (authorized) (b) CECTION Boiler and Pressure Arkw. in this report on made in accordance in accordance of the ed in this report.	re Vessel Inspectors, and right Mutual Ince with Section XI of the rethe Inspector nor his effort from or connected with Factory I	certificate of competency asurance Co 22 and state that to the ASME Code and the National mployer makes any warranty.

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Public Service Electric	& Gas Co	Nuclear Dep	t. CJP #	S92-229
	Iname			organization's P.C. no job no.,etc.;
Foot of Buttonwood Road, Hancocks	Bridge, NU	08038		
2. Owner Public Service Electric and G	(address)			
2. Owner Public Service Electric and G				
Foot of Buttonwood Road, Hancocks	Bridge, NJ	08038		
	(address:			
3. Name address and identification of nuclear power plant		ear Generatin	g Station U	nit #1
Foot of Buttonwood Road, Hancocks	Bridge, NJ	08038		
4 System Service Water			N	uclear Class II
5 a: Component repaired, modified or replaced 13SW72 Va	IIve			
b: Name of manufacturer <u>Masoneilan</u>		N7 / 3	NT / N	10754
c Identifying nos. N-00113-39-3 N/A		N/A	N/A	19754 ajr
(mfr 's serial no (Nath: Bd. No.) d: Construction Code <u>ASME Draft Code for P</u>	•	жюпа' no.· 1060 гд 107	(other)	(Year built)
	(addenda)		Code Case(s))	(Code Class
6 Section Xi 1983	Summer_		N/A	(COCE CIASS
jedition	(adoenda)	<u> </u>	(Code 3	ase(s):
7 Applicable edition of ASME Code Section XI under which rep		or replacements were		S83 N/A
•		F	(notibe)	(addenda) (Code Case(s))
8. Applicable edition of Construction Code under which repairs,	modifications, or re-	placements were ma	de. * 1968	1970 N/A
		Amps & Valve		(addenda) (Code Case(s))
9 Design responsibilities PSE&G ANSI B31.7	7 1969 Ed. 19	70 Add.		
10 Tests conducted, hydrostatic 🛭 pneumatic 🖺 design pre	essure 🛮 pressure	NOP ps T	'emp. N/A * О	ther
11. Description of work <u>Performed weld repair</u>	<u>on valve bod</u>	ły		
(use of additional shee	ol(s) or sketch(es) is accept	able if properly identified)		
11-1- Outline to 022224262				
12. Remarks: Work Order #: 911114161	202			
Deficiency Report #: SMD 92- *System Inservice Test Perfo				
-System inservice lest ferro	JIMBU AC NOF			
				
CE	PRIFICATE OF COM	PLIANCE		
We certify that the statements made in this report are correct a	and the length modifi	caron or realsache	on of the items desc	withed shows exclaims to
Section Xi of the ASME Code and the National Board rules as		•		TIDEC ABOVE COLLIDITIS TO
I _	use the "NR" stamp		. 19_94	
2 7/7 02 01		O TRO	Lead 34	
Date	iclear Dept.	/authorizan	representative)	incipal Engr.
(1992)	- organication)	(800 600 200		(110 0)
Q:	ERTIFICATE OF INSP	ECTION		
I, the undersigned, holding a valid commission issued by The	National Board of Br	oiler and Pressure Ve	ssel inspectors, and	certificate of competency
issued by the state or province of New Jersey	and employed by	Arkwrig	<u>iht Mutual In</u>	surance Co
of Ma have inspected the repair, modification or repl				and state that to the
best of my knowledge and belief, this repair, modification or rep Board rules as defined in the publication NB-102, current edition				
expressed or implied, concerning the repair, modification or re	placement described	in this report. Furt	hermore, neither the	Inspector nor his employer
shall be liable in any manner for any personal injury or propert	ty damage or a loss	of any kind arising fr	rom or connected wi	th this inspection.
Date 7-8 1992 Signed (Jonney 8.0	osh	Commissions		utual System
Date 7-8 ,1992 Signed former 8.6	rized Inspector)			ents)state or province and number)
	<u> </u>			

FORM NR-1 REPORT OF REPAIR [MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Public Service Electr	ric & Gas Co.	- Nuclear	Dept. CJP	#S92-232	
,	(name			Bir organization's P. O. no. job in	noetc.
Foot of Buttonwood Road, Hancock	ks Bridge, N	08038			
	(address				
2 Owner Public Service Electric and	Gas Co.		 		
	(name				
Foot of Buttonwood Road, Hancock	ks Bridge, N	08038		·	
	(address	_		•	
Name, address and identification of nuclear power plant_			ating Station	Unit #1	
Foot of Buttonwood Road, Hancock	<u>ks Bridge, N</u>	7 08038		 	
4. System <u>Reactor Coolant</u>				Nuclear Class I	L
5 a: Component repaired, modified or replaced 1PS3 Va	alve				
b: Name of manufacturer <u>Copes Vulcan</u>			32./3		
c: Identifying nos. 21489-1 N/A		N/A	N/A	N/A	
(mfr.'s serial no.) (Nat'l, Bd. No.)	•	risdictional no.)	(other)	(year built)	
d: Construction Code ASME Draft Code for I	Pumps & Valve	1967 Ed.	1970 Add. N/A	1	
ANSI B31.7 1969 Editation 1970 Add.	(addenda)		(Code Case(s))	(Code Class)	
6. Section XI	Summe	er 83	N/A		
(edition)	(addend		'	e Case(s))	
7. Applicable edition of ASME Code Section XI under which	repairs, modification	ns, or replacemen	ts were made: <u>1983</u>	<u>583 N/A</u>	
			(edition)	(addenda) (Code	Case(s))
8. Applicable edition of Construction Code under which repr					
*ASME Draft Code for Pur				on) (addenda) (Code	Case(s))
	B31.7 1969 I				
10 Tests conducted: hydrostatic [] pneumatic [] design			psi Temp. N/A **	other	
11. Description of work Replaced plug and st	tem assembly	·		· · · · · · · · · · · · · · · · · · ·	
(use of additional	sheet(s) or sketch(es) is a	cceptable if property id-	entified)	•	
<u> </u>					
		Dofic	Sanar Danast #1	CMD 03-300	
12. Remarks: Work Order #: 920422112	N7 /3		iency Report #:	שנים אל עניינ	
Design Change Package #: 1		Rev. N/A	t. N/A		
See attached pages for De		-	IC. N/A		
** System Inservice Test	Periormed at	NOP			
	CERTIFICATE OF C	OMPHIANCE	•		1
	OD III IOAIL OI C	CIIII CATOL			
We certify that the statements made in this report are corre	ect and the repair, it	odification or rep	lacement of the items de	scribed above conforms	to
Section XI of the ASME Code and the National Board rules	•		, current edition.	· ·	
Certificate of Authorization no.	to use the "NR" st	amp expires —	t. 3~ 19 94	 *	,
Date 8/4 19,92 Signed DEES 00		\mathcal{A}	J. Kolore	Salaratara 1 Barras	
10000 001	-Nuclear Dept (repair organization)	<u> </u>	uthorized representative)	rincipal Engr.	-
·		`			
	CERTIFICATE OF I	NSPECTION			
I, the undersigned, holding a valid commission issued by I	The National Board (of Boiler and Pres	sura Vassal Inspartors a	nd certificate of compete	2004
	and employed b	v Ark	wright Mutual 1	insurance Co	,,,,,,
of MA have inspected the repair, modification or		· 	7. 4	992 and state that to	the
best of my knowledge and belief, this repair, modification or					
Board rules as defined in the publication NB-102, current en					
expressed or implied, concerning the repair, modification of shall be liable in any manner for any personal injury or pro					Joyer
4 / /		or any nine a	Factory	Mutual System	
Date 8-12 ,1922 Signed 15 man	2. Cost	Commiss	414777		
/ A	uthorized Inspector)		(Natl.Bd.No.(including endors	ements)state or province and nu	imbert

FORM NR-1 REPORT OF REPAIR & MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work performed	by Public Ser	vice Electric &	Gas Co Nuclea	r Dept. CUP	#S92-235
	_	oad, Hancocks Bri	(name)	-	er organization's P. O. no. job. no.,etc
2. Owner Publ	ic Service El	Lectric and Gas C	(address)	_	
Foot of	Buttonwood Ro	oad, Hancocks Bri	dge, NJ 08038		
3. Name, address an	d identification of nuc	clear power plant Sa bad, Hancocks Brid	lem Nuclear Gener doe, NJ 08038	rating Station	Unit #1
	ety Injection				Nuclear Class 1
4. System Sd1 5 a: Component repair			<u> </u>		
b: Name of manufa	1_	vell Internationa			
c: Identifying nos		N/A	N/A	N/A	1967
	(mfr.'s serial no.) ide PS Spec. V	(Nat'l. Bd. No.)	(jurisdictional no.)	(other) N/A	(year built)
6. Section XI		7 1969 Ed. 1970.A	dd. Summer 83	(Code Case(s)) N/A	(Code Class)
	(edition)	on XI under which repairs, m	(addenda)	(Code	S83 N/A
		under which repairs, modi		(edition)	(addenda) (Code Case(B)) C WAPD2-C58
			*ANSI B31.7 1969	Ed. 1970 Add	n) (addenda) (Code Case(s))
Design responsibility			100	Mary 17/3 40	#how
0. Tests conducted:		matic design pressure		_psi Temp. N/A *C	cher
1. Description of w	ork KemeTaea	valve canopy aft			
		(use of additional sheet(st or s	ikelch(es) is acceptable if properly k	dentified)	
					
2. Remarks: WO	ork Order #: 9	20418067			
	eficiency Repo		····		
		ice Test Performe	d at NOP		
		CERTIFIC	CATE OF COMPLIANCE		
		is report are correct and the			scribed above conforms to
Certificate of Authori			the "NR" stamp expires		
0/1/	(22 - 25		0 7	Dist	
Date	19 <u>,<i>92</i>.</u> Signed	PSE&G CO.—Nixcle (repair organi		Euthorized representative)	Principal Engr.
		CERTIFA	CATE OF INSPECTION		
I, the undersigned, hissued by the state of			nal Board of Boiler and Pres mployed byAr	ssure Vessel Inspectors, ar kwright Mutual I	nd certificate of competency
of MA have best of my knowledg Board rules as define	e inspected the repair ge and belief, this repaired in the publication	r, modification or replacement, modification or replacement NB-102, current edition. By	ent describe in this report of tent has been made in according this certificate, ne	rdance with Section XI of the	and state that to the ne ASME Code and the National employer makes any warranty,
shall be liable in any	manner for any pers	air, modification or replaced	nage or a loss of any kind a	arising from or connected Factory	he Inspector nor his employer with this inspection. Mutual System
Date 0	,19 <u>_7</u> _4Signed <u>\</u>	(Authorized Ins	Commis		ements)state or province and number)
L					

FORM NR-1 REPORT OF REPAIR & MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	Wor	perfo	ormed	by 1	Public	c Ser	viœ	Electr	ic &	Gas C	<u>.</u> م	- Nuclear	Dep	t. c	JP ‡	\$92 - 236	
		Foot	of	But	tanwa	od Ro	ad, H	ancock	s Br	iðge,	ŇÚ	08038			(tepaul	organization's P. C.	no job no etc
2	Owner		Pub.	lic s	Servi(œ El	ectri	c and	Gas (œ.	18-						
		Foot	of	But	tonwo	od Ro	ad, H	ancock	s Br	idge,	NU	08038					
3	Nam				tification							ear Gener	atin	g Station	า [Jnit #1	
								ancock	S DI.	iage,	NO	08038				Nuclear C	1200 1
	Systen				Inje			4SJ17	172] 10							ticlear C	1055 1
5					odified o			nterna									
		_		facturer N		TO COM	<u> </u>	N/A	CIOI			N/A	 -	N/A		190	50
	c. ide	ntifying	nos		<u>/A</u>	 -											
	d: Co	nstruct	ion Co	•		B16.	5 196		/A		(jurisdik	n/A		(other)		1	ar built) .
6	Section	on XI			,	983	7 196	9 Ed.	1330	"Add. Sum	mer	83	,c.	ode Case(s)) N/A		(Code (Class)
7.	Appli	cable e	dition	of ASM		altion) Section	XI unde	er which re	epairs, r	adder) modificatio	,	or replacement	s were			S83	N/A
8	Appli	cable e	dition	of Con	struction	n Code u	inder wh	nich repair	s, mod	lifications,	or re	placements we	re mac	(editio	n)	(addenda)	(Code Case(s)) N/A
										*ANSI	Bl	6.5 1969/ 1.7 1969	,	(Code) (o	dition)	(addenda)	(Code Case(s))
9.					PSE&C						SSUI	1100		emp. N/A			
10				hydros	D	•	natic 🛮	• ,				maintena		Cip. III			
11.	Desc	ripuon	OI W	vork	14546	<u>rucu</u>										- -	
							(rae or	TOCKHOUTS BU	1961(E) OF	sketch(es) is	accept	table if property ide	ntsied)				
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12	Rema	arive.	W	ork (order	#: 9:	20406	181									·
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									form	ed at	NOP	NOT OF					
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		XI of t	he AS	ME Co	de and t				s define	ed in the p	public	fication or replication NB-102, p expires	current	edition.			onforms to
		ale Ui r	4	1240011	110	36			iu use	tile MU	Stairi	h exhires —OC	t - 3	, ₁₉ -	94	•	
	Date 🔨	8/4		_19, <i>9</i>	<u>2</u> . Sig	ned	PSE&	G 00	NUCL pair organ		pt.	Q-J	·KOC	representative)	_Pı	cincipal I	Engr.
-																	
								(ERTIF	ICATE OF	INSF	PECTION				•	
	, the u	ndersig by the	ned, h	or prov	a valid	commis]	sion issu New J	ersey	e Natio and e	nal Board	of B	oiler and Press Ark	ure Ves	sel inspectors ht Mutua	and Tr	certificate of c	competency
	of1	<u> </u>	hav	e inspe	cted the							n this report on made in accord		8-2 ith Section XI o	• •	and state ASME Code an	
	Board respress	ules as sed or i	define mplied	ed in th d, conc	ne public erning tl	cation Ni he repai	B-102, c r, modifi	urrent edi ication or	tion. B	y signing ment des	this c	ertificate, neith d in this report	er the . Furth	Inspector nor I ermore, neithe	his er er the	nployer makes Inspector nor	any warranty, his employer
	shall be	liable 8-1			er for an		nal injur	y or prope	erty dan	mage or a	loss	of any kind ari	_	Factor	ed wi	th this inspecti futual Sys	on. stem
			<u>-</u>	, 19/	اواد ، <u>سر</u>	LIBU X	wn c	(Auti	norized In	spector)					dorsem	ents)state or provin	ce and number)
7																	

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Public Service	ce Electric & Gas Co	o Nuclear	Dept. CJP	#S92-241
	(name)	(repa	r organization's P. O. no. job. no.,etc.)
Foot of Buttonwood Road	, Hancocks Bridge, N	V 08038		
	(address)		
2. Owner Public Service Elect	tric and Gas Co.			
Mark of Makhamana A Mark	(name)			
Foot of Buttonwood Road	, Hancocks Bridge, I	AT 08038	·	
Alice and the stiff and the stiff	(address)	ialosm Conom	ting Station	Thit #1
3. Name, address and identification of nuclear p			ting Station	OILL #I
Foot of Buttonwood Road 4. System Safety Injection	, harcocks bridge, r	0 08038		Nuclear Class II
	1SJ3 Valve			Nuclear Class II
5. a: Component repaired, modified or replaced_ b: Name of manufacturer Aloyco	1503 Varve			
c: Identifying nos. 70A6292	N/A	N/A	N/A	1970
		urladictional no.)	(other)	
d: Construction Code Westinghouse	•	•	N/A	(year built) II
ANSI B31.7 1969 an Eq. 19		1 1700	(Code Case(s))	(Code Class)
6. Section XI 1983	, , ,	ner 83	N/A	(0000 0.433)
(edition)	(addent			Case(s);
7. Applicable edition of ASME Code Section XI	•	•	·	S83 N/A
		,	(edition)	(addenda) (Code Case(s))
8. Applicable edition of Construction Code unde	er which repairs, modifications,	or replacements were	• •	, - , , ,
*Westinghouse E-Spec G-67	•	•		i. (addenda) (Code Case(s))
9. Design responsibilities PSE&G				
10. Tests conducted: hydrostatic [] pneumatic	c design pressure pres	ssure NOP ps	Temp. N/A **	Other
11. Description of work Replaced val	lve bolting.			
-	use of additional sheet(s) or sketch(es) is a	scceptable if property identi	fied)	
				
				
12. Remarks. Work Order #: 9204	·——————		ency Report #:	SMD 92-398
Design Change Pack		Rev. N/A		
	s for Description of		. N/A	
**System Inservio	e Test Performed at	NOP		
	CERTIFICATE OF C	YOMPI IANCE		
	OE THE CATE OF C	SOM! LIVIOL		
We certify that the statements made in this rep	• •	•		scribed above conforms to
Section XI of the ASME Code and the National			arrent edition.	
Certificate of Authorization no36	to use the "NR" s	tamp expires —oct	93, ' ¹⁹ - <u>9</u> 4	E '
Date <u>Sine 19</u> 19,92 Signed D	SELC Co -Nuclear Der	- men	ans.	ringinal From
	3 000-00-7000-000			Africa)
	(repair organization)	(auth	ofized representative)	()
	(repair organization)	(auth	orized representative)	· · · · · · · · · · · · · · · · · · ·
		·	onzed representative)	
	(repair organization)	·	orized representative)	
i, the undersigned, holding a valid commission	CERTIFICATE OF	INSPECTION of Boiler and Pressur	e Vessel Inspectors, an	d certificate of competency
· · · · · · · · · · · · · · · · · · ·	CERTIFICATE OF In issued by The National Board of Jersey and employed by Jersey	INSPECTION of Boiler and Pressur by Arkw	e Vessel Inspectors, an right Mutual I	insurance Co
issued by the state or province of <u>New</u>	CERTIFICATE OF a issued by The National Board of Jersey and employed by diffication or replacement described.	INSPECTION of Boiler and Pressur by Arkw be in this report on	e Vessel Inspectors, an right Mutual I	nsurance Co
issued by the state or province of New of MA have inspected the repair, more best of my knowledge and belief, this repair, more descriptions.	CERTIFICATE OF a issued by The National Board of Jersey and employed by diffication or replacement describedification or replacement has be	INSPECTION of Boiler and Pressur by Arkw be in this report on en made in accordar	e Vessel Inspectors, an right Mutual I	Insurance Co 92 and state that to the e ASME Code and the National
issued by the state or province of New of MA have inspected the repair, most best of my knowledge and belief, this repair, most board rules as defined in the publication NB-10 expressed or implied, concerning the repair, most province to the state of t	CERTIFICATE OF a issued by The National Board of Jersey and employed to diffication or replacement described fication or replacement has be compared to the control of the	of Boiler and Pressur by Arkw be in this report on en made in accordar his certificate, neithe	e Vessel Inspectors, an right Mutual I	Insurance Co 72 and state that to the e ASME Code and the National employer makes any warranty, e Inspector nor his employer
issued by the state or province of NEW of MA have inspected the repair, more best of my knowledge and belief, this repair, more Board rules as defined in the publication NB-10	CERTIFICATE OF a issued by The National Board of Jersey and employed to diffication or replacement described fication or replacement has be compared to the control of the	of Boiler and Pressur by Arkw be in this report on en made in accordar his certificate, neithe	e Vessel Inspectors, an right Mutual I	Insurance Co I and state that to the e ASME Code and the National employer makes any warranty, e Inspector nor his employer with this inspection.
issued by the state or province of New of MA have inspected the repair, mo best of my knowledge and belief, this repair, mo Board rules as defined in the publication NB-10 expressed or implied, concerning the repair, m shall be liable in any manner for any personal	CERTIFICATE OF a issued by The National Board of Jersey and employed to diffication or replacement described fication or replacement has be compared to the control of the	of Boiler and Pressur by Arkw be in this report on en made in accordar his certificate, neither ribed in this report. loss of any kind arisi	e Vessel Inspectors, an right Mutual I	Insurance Co 72 and state that to the e ASME Code and the National employer makes any warranty, e Inspector nor his employer
issued by the state or province of New of MA have inspected the repair, most best of my knowledge and belief, this repair, most board rules as defined in the publication NB-10 expressed or implied, concerning the repair, most province to the state of t	CERTIFICATE OF a issued by The National Board of Jersey and employed to diffication or replacement described fication or replacement has be compared to the control of the	of Boiler and Pressur by Arkw be in this report on en made in accordar his certificate, neither ribed in this report. loss of any kind arisi	e Vessel Inspectors, an right Mutual I	Insurance Co I and state that to the e ASME Code and the National employer makes any warranty, e Inspector nor his employer with this inspection.

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work performed	by Public Se	rvice Electric	& Gas Co	- Nuclear	Dept. CJP	#S92-246	
	· /		(name)			r organization's P. C	, no. job no.,etc.:
Foot of	Buttonwood R	bad, Hancocks	Bridge, NJ	08038			
			(address)				
2. Owner Publ	ic Service E	lectric and Ga	s c o.				
			(name)				
Foot of	Buttonwood R	load, Hancocks	Bridge, NU	08038	·		
			(address)		chatiam 1		
3. Name, address an					ting Station 1	DUTE #T	
		load, Hancocks	sriage, Nu	08038		Nuclear C	lace T
	ety Injectio		- `		· · · · · · · · · · · · · · · · · · ·	Nuclear C.	Lass I
5. a Component repa							
		well Internation	יים ונ	N/A	N/A	196	
c: Identifying nos	• ·	N/A					
di Construction Co	(mfr.'s serial no.)	(Net'i. Bd. No.) 8 N/A	, gunsa	ctional no.)	(other) N/A	3	er built)
	de <u>WAPD 2-C5</u> 7 1969 Edecima					<u>_</u>	~
	1983	B/U ALIQ.	ddenda) Summer	83	(Code Case(s)) N/A	(Code	C(850)
6. Section XI	(edition)		(addenda)	03		Canadall	
7 Applicable adition		ion XI under which repa	•	v renlacements	· · · · · · · · · · · · · · · · · · ·	S83	N/A
7. Applicable edition	0; A3141E COGE COGE	on A under millor repa	irs, mounications, v	or topiacomenia	(edition)	(addenda)	(Code Case(s))
9 Applicable edition	of Construction Cod	le under which repairs, r	nodifications or ra	olacements wei		(2000)	(COCC CAMPA)
o. Applicable callion		WAPD 2-C58/ANS) (addenda)	(Code Case(s))
9. Design responsib			. 2020.		(alley (alley)	, (200.02)	. (0000 000(0))
		umatic II design pres	sure II oressure	N/A p	si Temp. N/A **	Other	
		valve canopy					
		· · ·	s) or sketch(es) is accept	_			
					· ·		
12. Remarks: WC	rk Order #:	920327128			ency Report #:	N/A	
		Package #: N/A		7. N/A	_ _	 	
Se	e attached p	ages for Descr	iption of Re	eplacement	. N/A		
**	System Inse	rvice Test 0 N	OP/NOT				
		CER	TIFICATE OF CON	PLIANCE			
We certify that the si	tatements made in t	this report are correct ar	d the repair, modi	fication or repla	cement of the items des	cribed above c	onforms to
1 -		ational Board rules as d	• •	. *			
Certificate of Authori	zation no	to	use the "NR" stam	p expires _ Oct	. 3 19 94	_·	
Date _ 8/5	_19, 92 . Signed_			1.7.K	clasta -		_
Date 13	_19,72. Signed_	— PSE&G CoNu	clear Dept. organization)	(mut	horized representative)	rincipal]	ingr
1	•	(10,00)		,		()	
\							
		CE	THECATE OF INSP	PECTION			
I the undersioned t							
	oldina e valid comp	nission issued by The N	ational Roard of R	niler and Pressi	ira Vassal Inspectors, an	d contificate of	
I issued by the state (nission issued by The N New Jersey a	ational Board of B nd employed by	oiler and Pressu Arkv	ire Vessel Inspectors, an wright Mutual I	d certificate of nsurance (competency Co
of MA have	or province of e inspected the repa	New Jersey a air, modification or repla	nd employed by_ cement describe in	Arkv this report on	vright Mutual II	nsurance (that to the
of MA have best of my knowledg	or province of e inspected the repart e and belief, this rep	New Jersey a air, modification or repla air, modification or repla	nd employed by_ cement describe in cement has been i	Arkv this report on made in accorda	vright Mutual I:	nsurance 900 and state e ASME Code a	that to the
of MA have best of my knowledg Board rules as define	or province of	New Jersey a air, modification or repla air, modification or repla NB-102, current edition	nd employed bycement describe in cement has been not be signified this control of the control	Arkv this report on made in accorda certificate, neith	vright Mutual I:	nsurance 2 and state e ASME Code a employer makes	that to the nd the National sany warranty,
of MA have best of my knowledg Board rules as define expressed or implied	or province of	New Jersey a air, modification or repla eair, modification or repla NB-102, current edition pair, modification or rep	nd employed by_ cement describe in cement has been in By signing this of lacement describe	Arkv this report on made in accorda entificate, neithe d in this report.	right Mutual I: 8-7	and state and st	that to the nd the National any warranty, his employer
of <u>Ma</u> have best of my knowledge Board rules as define expressed or implied shall be liable in any	or province of	New Jersey a air, modification or repla eair, modification or repla NB-102, current edition pair, modification or rep	nd employed by_ cement describe in cement has been in By signing this of lacement describe	Arkv n this report on made in accords entificate, neithed in this report. of any kind aris	right Mutual I 19 19 19 19 19 19 19 19 19 1	and state and st	that to the nd the National s any warranty, his employer lion.
of MA have best of my knowledg Board rules as define expressed or implied	or province of	New Jersey a hir, modification or replaced in MB-102, current edition pair, modification or represental injury or property	nd employed by_ cement describe in cement has been in By signing this of lacement describe	Arky this report on made in accorda entificate, neithe d in this report.	right Mutual I 19 19 19 19 19 19 19 19 19 1	and state and state a ASME Code a comployer makes to inspector nor with this inspect Mutual Systems	e that to the nd the National s any warranty, his employer clon.

FORM NR-1 REPORT OF REPAIR ☑ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☐ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

— Wor⊩ pe	dormed by	Public	Service Electr	ric & Gas	s ∞ .	- Nuclear	Dept.	CUP #	S92 -24 7	
					(name			(-epe	organization s P. C	. no los no leta
F _∞	t of Bu	ittorwood	d Road, Hancock	cs priode		08038				
2 Owner	Public	Service	Electric and	Gas Co.	adcress-					
2 34.10					(name,					
F _∞	t of Bu	ittonwood	Road, Hancock	us Bridge	e, NU	0.8038				
					odress)	Conor	ation Ctati	on I	i+ 47	
	-		of nuclear power plant_ I Road, Hancock				ating Stati	.011 - 0	11TF #1	
4 System		y Inject		S DI IUG	e, 10	00030		N	Nuclear Cl	ass I
			replaced 12SJ144	Valve						
b Name c	of manufact	urer Ro	ockwell Interna	ational						
c. identifyir	ng nos	N/A	N/A			N/A	N/2	7	196	59
		(mh 's seria: no.;	•		(jurisd	ictional no.)	(other	-	y:	var built)
			phouse Spec G-6				N/2		1	
		1969 EO	ылд970 Add.	(addenda)	Summer	83	(Code Case(s)) N/A		(Cooe	Class:
6 Section XI		120 ibe:			(addenda)	0.5	_1/A_	Code	Case(s))	
7 Applicable	edition of a	•	Section XI under which	repairs, mod	•	or replacement	ts were made: 19		S83	N/A
• •				•		·		edition)	(addenda)	(Code Case(s))
8 Applicable	edition of	Construction	Code under which repa							
						G-676241,		(edition)	(addenda)	(Code Cese(s))
-		es_PSE&G				1. 1970 A	osa. Posi Tempo. N	/h ++~	Thor	
	-		pneumatic design			e <u>N/A</u>	bsi reito. M	A AAC	/Cler	
11 Description	on or work					stable if properly ide				
			(use or econicons	3. 1001(8) C/ 3K8/C/	11(23, 13 2000)	nasa r propony no	in thin to a part of the same			
12. Remarks:			#: 900725083				iency Repor	t #:	N/A	
			ge Package #: N			v. N/A	37 /3			
			d pages for Des				t. N/A			
	^^	ystelli II	rservice Test P	GLIOLIA	u at in	JF/1401				
				CERTIFICAT	E OF COM	IPLIANCE				
144						W4:				
1			e in this report are corre ne National Board rules		-			ems des	cribed above c	ontorms to
Certificate o			-36	to use the	•			¹⁹ _94	_ -	
Data 2/4	I ,	9.92. Sign	od same	N - 1	D b	Q.J	Relant			~~~
Cale 10/7	<u></u> '	9, <u>7 C</u> . 3(g)		-Nuclear repair organizatio		(a)	uthorized representative		cincipal i	ingr.
				·						
				CERTIFICAT	TE OF INS	PECTION				
					20, 110					
			commission issued by T				sure Vessel Inspec wright Muta	tors, and	d certificate of	competency
of MA		province of _ aspected the	New Jersey repair, modification or						72 and state	
best of my k	nowledge a	ind belief, this	s repair, modification or	replacement	has been	made in accord	lance with Section	XI of the	ASME Code a	nd the National
			ation NB-102, current ec e repair, modification o							
			e repair, mounication of y personal injury or prop				ising from or con-	nected w	ith this inspect	ion.
1. 6	./3	,19 <u>7</u> 2. Sign		6	1		Fac	ory N	iutual Sys	stem
Date 0	//	,19 <u>/</u> Sign		ulhorized Inspect	lori	_ Commissi	Ons // / / / / / (Natl.Bd.No.(includin	a endorsen	nenis/state or provi	nce and number
			, M		-11		, ramount of incident	3 4.1001301		Tombon

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

_ 1.	Work performed by	Public Service	æ Electric &	Gas Co	- Nuclear	Dept. CJP	#S92 - 254	
		ttonwood Road,		(name)	08038		ir organization's P. O.	no, job. no.,etc.)
		Common Toda,	- IMACOND DE	(address)	00000			
2.0	Owner Public	Service Elect	ric and Gas					
	Foot of But	ttonwood Road,	Hancocks Br	idge, NJ	08038			·
			_	(address)	_		1. "-	
3.	Name, address and ider	•				ting Station	Unit #1	
	System Safety	ttonwood Road,	Hancocks Br	lage, Nu	08038		Nuclear C	lace T
	a: Component repaired, n		11CT34 Valv	e Bolting			MUCIENT C.	1055 1
J.	b: Name of manufacture						·	
	c: Identifying nos.		N/A		N/A	N/A	N/Z	A
	• • ====		lat'i. Bd. No.)	(jurisdicti	onal no.)	(other)	(you	ar built)
	d: Construction Code _	ASME Sec.III	1977 Summer	1982		N/A	<u> </u>	
		ANSI 1986 7 19	69 Ed. 1970m	Add.		(Code Case(s))	(Code C	Class)
6.	Section XI	1983		Summer	83	_N/A		
		(edition)		(addenda)		•	Case(s))	
7.	Applicable edition of ASI	ME Code Section XI L	ınder which repairs, r	modifications, or	replacements v	were made: <u>1983</u>	_S83	_N/A
	•					(edition)	(addenda)	(Code Case(s))
8.	Applicable edition of Co	nstruction Code unde	• •	•				_N/A
_	Desire seesesibilisies	20200		Sec. III/		7 (Code) (edition	n) (addenda)	(Code Case(s))
9.	Design responsibilities_ Tests conducted: hydro		☐ design pressure	Ed. 1970		Temp. N/A *		
10. 11.	Description of work_	•	• .	an biessule	NOP psi	remp. N/A *		٠
	Dodonphon of Work	_	se of additional shoet(s) or s	sketch/ee) is eccepta	hie if nonedy identif			
	•	(u.			on a property reconst	,		
12.	Remarks: Work	Order #: 9204	18060		Defici	ency Report #:	SMD 92-40	06
	Desig	m Change Pack	cage #: N/A	Rev	7. N/A		· · · · · · · · · · · · · · · · · · ·	
	See_a	attached pages	; for Descrip	tion of Re	<u>eplacement</u>	. N/A	 	
_	*Syst	em Inservice	<u>Test Perform</u>	ed at NOP				-
1			CEDTIEN	CATE OÈ COMB	N IANGE			•
ļ			CERTIFR	CATE OF COMP	CMACE		•	
V	e certify that the stateme	ents made in this rep	ort are correct and th	e repair, modific	cation or replac	ement of the items des	scribed above co	onforms to
_	ection XI of the ASME Co					irrent edition.		
10	ertificate of Authorization	^{1 no.} 36	to use	the "NR" stamp	expires — Oct	. 3, ' ¹⁹94	ł.	
	ate <u>9-/5</u> 19,5	2. Signed	TECC Co -Mool	oor Door	I She	Cale: 1	oringinal 1	Ener
	,		(repair organ	nization)	(autho	orized representative)	(title)	Edited 1.
十			CEPTIC	CATE OF INSPE	CTON			
	the undersigned, holding sued by the state or pro-	•	issued by The Nation Jersey and e			e Vessel Inspectors, an right Mutual		
"		ected the repair, mod				9-/5 19	and state	that to the
Ь	st of my knowledge and	belief, this repair, mo	dification or replacem	nent has been m	ade in accordan	ce with Section XI of th	e ASME Code an	nd the National
	pard rules as defined in t							
	opressed or implied, con nall be liable in any man							
1				/	•	Factory	Mutual Sy	
0	ate <u>9-/7</u> ,19	74 Signed 4	ner Y. Con		Commission			an and a : t 3
		V	(Authorized In:	spectori	(1	Nati.Bd.No.(Including endorse	mentalarate or brown	se and number)

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	Work performed by Public Service Electric & Gas Co Nuclear Dept. CJP #S91-256
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
2	Owner Public Service Electric and Gas Co. (address)
_	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
3	Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1
J .	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	System Chemical Volume Control Nuclear Class 1
5.	a: Component repaired, modified or replaced 1CV7 Valve b: Name of manufacturer Cope Vulcan
	CO1005001 50 2 M/A N/A N/A N/A 1060
	c: Identifying nos. 69109001-38-3 N/A N/A N/A 1908 (mfr.'s serial no.) (Nat'l, Bd. No.) (urisdictional no.) (other) (year built)
	d: Construction Code ASME Draft Code for Pumps & Valves 1968 Ed. 1970 Add.
	ANSI Ballon 7 1969 Ed. 1970 on Add. (Code Case(S)) (Code Case(S))
6.	Section XI 1983 Summer 83 N/A
-	(edition) (eddenda) (Code Cassess) Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A
7.	Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A
8.	Applicable edition of Construction Code under which repairs, modifications, or replacements were made: * 1968 1970 N/A
	PSE&G ANSI B31.7 1969 Fd. 1970 Add. (code) (code) (code) (addition) (code Case(s)
9.	Design responsibilities NOP Temp. N/A * Other
10.	
4	Description of work
	(use of additional sheet(s) or sketch(es) is acceptable if properly identified)
	Work Order #: 910419133 Deficiency Report #: N/A
12	Remarks: Design Change Package #: N/A Rev. N/A
	See attached pages for Description of Replacement. N/A
	*System Inservice Performed at NOP
Γ	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to
	Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.
	Certificate of Authorization no36 to use the "NR" stamp expires
	Date 8-/2 19,92 Signed PSE&G CoNuclear Dept. Shalinka Principal Engr.
	(eith) (evitatneesnoen bestrontuus) (nolitasinaspro nieque)
┝	
	CERTIFICATE OF INSPECTION
	toler and the Line of the constant of the Market Broad of Ballor and Broad on Market Institute Broad of the
	I, the undersigned, holding a valid commission is the competency is the undersigned, holding a valid commission is the competency is the state or province of and employed by and employed by
	have inspected the repair, modification or replacement describe in this report on
	best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the Nationa
	Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty expressed or implied, concerning the repair, modification or replacement described in this 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 organization are insulated in this employer.
	Date 8-13 1997 Signed (1200) Commissions N 373
	/ Ruthorized Inspector) (Nati.Bd.No. (including endorsements)state or province and number)

FORM NR-1 REPORT OF REPAIR [MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	Wo⇒ pe	dormec	b. Public	: Service	e Electri	c & Gas	œ. -	Nuclear	Dept.	C.	JP #S	92-264	
			-		Hancocks		28/200	08038			(repair or	ganization's P. C	ne jor ne. etc
2 0	whe:	Publ	ic Servic	æ Electi	ric and G	as co.	DC-053						
_	Foc	t of	Buttonwoo	xd Road,	Hancocks	Bridge	, NJ	08038					
3	Name_ado	ress and	dentification	of nuclear po	ower plant			ar Gener	ating St	atio	n Ur	nit #1	
4 S	vstem.		ctor Cool		Hancocks	Bridge	, NO	08038			Nu	clear C	lass 1
			ec modified a		#11 Steam	n Gener	ator						
	b. Name o		_	<i>iestinah</i>	ouse Elec			ion					
	c. Identifyir		1002		68-10			N/A		N/A		19	70
		-	(mfr 's seriai no	.i (N	at': Bd. No.;		(jurische	tional no.)		(other)		tye	ar built)
	d: Constru	ction Cod	e ASME I	II 1965	Sum	mer 66			N/A			1	
6	Section XI			edition; 983		(addenda:	ummer	83	(Code Case N/			(Code	Class)
7	Applicable	edition (fition: Section XI u	inder which rep		doenda) cations, o	r replacement	s were made:		(5000 Sa 3	S83	N/A
8.	Applicable	edition (of Construction	Code unde:	which repairs				ere made: 📩	(ediți	on) 1965	,addenda) S66	(Code Case(s)) N/A
_			DODEC	•		*AS	ME III	•	(Co	ode) (edition)	(addenda)	(Code Case(s))
9.			ities_PSE&C					N/A ,	osi Temp.	NI/A	**		
			nydrostatic []		□ design pr i∞il in l			_1/A	osi remp.	11/23			
11	Descriptio	n o: w	ork Kebic										
				(US	ede lancitibbe to e	M(S) OF SKMCTH	rs is accepte	тэте в ргэрепу ксе	піяна)				•
													
12.	Remarks.		rk Order						iency Re	port	#:]	SI 92-4	37
_					age #: N/			N/A	AT /3				
_					for Desc			pracenen	t. N/A				
	-	**	System 1	rservice	e Test ()	NOP/NOI							
					CE	RTIFICATE	OF COM	PLIANCE					
S	ection XI o	the ASA	AE Code and t		ort are correct of Board rules as	defined in t	he public	ation NB-102,	current editio	n.		bed above c	onforms to
~	ertificate o	/ Authori		36	- •	o use the "f	an statist	expires _Oc		_, 19 __	_94_		
D	ate : P/	/	_19, <u>92</u> . Sig	nedPSI	E&G CON	uclear Ir organization)		(au	Kelerta Aborized represent	tative)	_ Pri	ncipal (nnie)	Engr.
				And and the second of the second of	C	ERTIFICATE	OF INSP	ECTION			<i>,</i> ,,,,		
of be Be	MA est of my k pard rules opressed o	have nowledge as define r implied	inspected the and belief, the d in the public, concerning t	repair, mod is repair, mod cation NB-102 he repair, mo	issued by The Jersey lification or rep dification or rep 2, current edition addition or rep ignition or rep	lacement d placement h on. By sign placement	escribe in as been m ing this c described	this report on nade in accord ertificate, neith i in this report	lance with Seconer the Inspect. Furthermore ising from or of the secone is the secone	tion XI tor nor e, neith	of the A his em her the l	and state SME Code a ployer makes inspector nor in this inspect	e that to the nd the National s any warranty, his employer tion.
	ate <u></u>	-13	19 <u>42</u> _Sig	ned to	mer E	rized Inspector		Commissi	ons	313	ry M	ntual Sy	
													

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed	, Public Serv	iæ Electric & G	as Co Nuclear I	Dept. CJP #	\$S92 - 269
		d. Bancocks Brid	(name)		organization s.P. O. no. job. no.,etc.;
2. Owner Pub	lic Service Ele	coric and Gas Co	(address)		
•		ć, Bancocks Brid	(name)		
		2-3	address)	ing Commission I	mi+ +1
	nc dentification of nuclear Buttonwood Roa	c. Hancocks Brid	em Nuclear Generat ge, NJ 08038	ing Salion C	<u>инг 4т</u>
	fety Injection	110755 110300		<u> </u>	Nuclear Class 1
 a: Component repair b: Name of manuf 	irec, modified or replaced	llSJ55 Valve Darling			
c: identifying nos.	>+ /3	N/A	N/A	N. A	1988
	mfr.'s serial no.) Westinghous	Next'. Bd. No.)	(jurisdictional no.)	citres;	(year built)
6. Section XI		1969 Ed. 1970 Ad	d. Summer 83	Cook Date: 51,	(Code Class)
	(edition)	Cunder which repairs mod	(addenda) difications, or replacements w	(Code C	S83 N/A
	Ť.			edition)	(Societical: (Code Case(s)) N/A
a. Applicable edition	o Construction Code un	*West	ations, or replacements were inghouse Spec 67—	5241/ Care (edition)	accenda) (Code Case(s))
Design responsib			B31.7 1969 Ed. 19		
10. Tests conducted:		and design pressure	pressure <u>NOP</u> psi	Temm. N/A *Ot	ner
Description of w	vor Replaced v		:h(es) is acceptable if properly identifie		
	1-0-1-11-00		D-61-1		MP 60 450
	crk Order #: 92	(415062 dczge #: N/A	Rev. N/A	ency Report #:	SMD 92-453
			on of Replacement.	N A	
		E Test Performed			
		CERTIFICAT	TE OF COMPLIANCE		
			epair, modification or replace		ribed above conforms to
Section XI of the AS Certificate of Author			n the publication NB-102, cu	10	
		to use the	oct	-3,	•
Date <u>8/5</u>	:9, <u>92</u> . Signed	SSEAG CoNuclea (repair organizati		C (-C'-C) Pr	rincipal Engr.
		CERTIFICA	TE OF INSPECTION		
I, the undersigned, I	hading a valid commiss	r ssued by The National	Board of Boiler and Pressure	Yesse namentors, and	certificate of competency
issued by the state		Ex Jersey and emp	loyed by ACKWI describe in this report on	right Missual Ir	
		•	t has been made in accordant		
			gning this certificate, neither nt described in this report. F		
			e or a loss of any kind arisin	g from a sonnected wi	th this inspection.
Date 5-25	19 <u>91</u> . Signed	10: 16. /si-	Commissions		<i>f</i> utual System
Date VOL)	19/v. Signet	(Authorized rispec			entsistate or province and number)

FORM NR-1 REPORT OF REPAIR [MODIFICATION [OR INSTALLATION OF REPLACEMENT(S) DE TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by	Public Service E	lectric & Gas	Co Nuclear	Dept. C	JP #S92-270	
	uttonwood Road, Ha	_	(name,		(repáir organization's P. C	i no jos noetc
2 Owner Public	Service Electric	and Gas Co.	doress			
	ittorwood Road, Ha		NU 08038			
	dentification of nuclear power	r plant Salem	Nuclear Gener	ating Static	on Unit #1	
	rttorwood Road, Ha	ncocks Bridge	, NJ 08038		Nuclear C	12cc 1
· · · · · · · · · · · · · · · · · · ·	cor Coolant	4 Steam Gener	ator		Nucreal C	Lass 1
5 a Component repaired	¥.7 a	e Electric Co				
b. Name of manufact	3.000	68-51	N/A	N/A	19	71
c identifying nos						
	(mit 's senal no.) (Nat'l. E ASME III 1965	Summer 196	(jurisdictional no.)	N/A	<u> </u>	er built)
6 Section XI	(edition) 1983	(addenda)	ummer 83	(Code Case(s)) N/A	(Code	Class)
7 Applicable edition of	(edition) ASME Code Section XI unde		addenda) ications, or replacemen	ts were made: 198	(Code Case(s)) 33 S83	N/A
	Construction Code under wh			(ed	ition) (addenda) 1965 S66	(Code Case(si)) N/A
• • • • • • • • • • • • • • • • • • • •			ME III	(Code)	(edition) (addenda)	(Code Case(s))
9. Design responsibilitie	es_PSE&G					
10. Tests conducted, hyd	drostatic 🛭 pneumatic 🗎	design pressure [osi Temp. N/A		
11. Description of work	Replaced primar	y manway bolt	ing on #14 Ste	eam Generator	hot leg.	
	(use of t	additional sheet(s) or sketch(r	es) is acceptable if properly ide	entified)		
	 					
so o Work	c Order #: 9201291	33	Defic	iency Report	#: ISI 92-4	56
	ign Change Package		Rev. N/A	Janoj report	, , , , , , , , , , , , , , , , , , , ,	
See	attached pages fo	or Description		nt. N/A		· ·
	System Inservice I					
T	7					
		CERTIFICATE	OF COMPLIANCE			
Section Xi of the ASME	ements made in this report a Code and the National Boal	rd rules as defined in t	the publication NB-102	, current edition.		onforms to
Certificate of Authorizat	ion no36	to use the "r	NR" stamp expires	در رع , 	_ 94 .	
Date : \$/3	9.92 Signed PSEAC	CoNuclear	Dent a.J.	Kolarta	Principal	Enar.
		(repair organization)		unthorized representative)	(Ittle)	
		CERTIFICATE	OF INSPECTION	·		
I, the undersigned, hold	ding a valid commission issu	ed by The National Bo	oard of Boiler and Pres	sure Vessel inspecto	ors, and certificate of	competency
issued by the state or p	province of New Je	ersey and emplo	yed by Ark	cwright with	il insurance	<u> </u>
	nspected the repair, modifica and belief, this repair, modific				, 19 <u>5 Z_and</u> stat	e that to the
	in the publication NB-102, cu					
expressed or implied, o	concerning the repair, modifi-	cation or replacement	described in this repor	t. Furthermore, neit	ther the Inspector nor	his employer
shall be liable in any m	anner for any personal injury	or property damage	or a loss of any kind a	rising from or conne Fact	ected with this inspec ory Mutual Sy	lion. stem
Date 8-12	1970000 (/10	5	0			
1	.19/ M. Signed _/_/M//	Med L. Lan	ート Commiss	tions /VJ 2 L	5	
	,19/ 2. Signed 407.	(Authorized Inspector		ions <u>VO 31</u> (Natl.Bd.No.(including	endorsements)state or provi	nce and number)

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

ند	Work performed by Public Service Electric & Gas Co Nuclear Dept. CJP #S92-272
	(name: (repair organization's P. C. no. job. no.,etc.
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
2	Owner Public Service Electric and Gas Co.
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	(address)
3	Name address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	System Safety Injection Nuclear Class I
5	a: Component repaired, modified or replaced 13SJ56 Valve
	b: Name of manufacturer Anchor Darling for Westinghouse c: Identifying nos. 11542-10-40-PSE-10C48Z N/A N/A N/A N/A 1974
	(mfr.'s senal no.) (Nat' 8d. No.) (jurisdictional no.) (other) (year built) d: Construction Code ASME III 1971 W/71 N/A I
	(edition) (addenda) (Code Case(s)) (Code Class)
6.	Section XI 1983 Summer 83 N/A
7	(Code Case(s)) Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A
8	Applicable edition of Construction Code under which repairs, modifications, or replacements were made: (edition) (addenda) (Code Case(s)) ** 1971 W/71
	*ASME III (Code) (edition) (addenda) (Code Case(s))
9	Design responsibilities PSE&G
10	Tests conducted, hydrostatic [] pneumatic [] design pressure [] pressure N/A psi Temp. N/A **
11	Description of work Replaced valve bolting and seal plate.
4	(use of additional sheet(a) or sketch(es) is acceptable if properly identified)
€	
	Designation
12.	
	Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A
	See attached pages for Description of Replacement. N/A ** System Inservice Test Performed at NOP/NOT
_	** System inservice lest reflormed at wor/Not
	CERTIFICATE OF COMPLIANCE
1	
	We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to
	Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no
1	
1	Date 8/5 19,92 Signed PSESS Co. Nuclear Dept a J. Kolert Principal Engr.
	(repair organization) (authorized representative) (little)
┝	
	CERTIFICATE OF INSPECTION
l	
	I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co
1	issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co of MA have inspected the repair, modification or replacement describe in this report on \$-2, 1952 and state that to the
	best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National
	Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty,
	expressed or implied, concerning the repair, modification or replacement described in this 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.
1	Factory Mutual System
10	Date 8-11 1992 Signed (James 9. Corl Commissions NJ373
	(Authorized Inspector) (Natl.Bd.No.(including endorsements)state or province and number)
7	

FORM NR-1 REPORT OF REPAIR _ MODIFICATION _ OR INSTALLATION OF REPLACEMENT(S) \(\mathbb{P} \) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1 of 2

work perform	ned by	Public Ser	vice Electr	ric & Gas Co	· Nuclear I	Dept. CJP	#S92-280	
				(mathe		-	tion's P C no., job	. no.,etc.)
Foot	of Bu	ttonwood Ro	oad, Hancoc	ks Bridge, NJ				
Swner	Public	Service El	ectric and	• • • • •				
				(mame)		-	
Foot	of Bu	ttonwood Ro	oad, Hancocl	ks Bridge, NU				
				Salem Nucle		ting Station	Unit #1	
				ks Bridge, NJ	08038			
		y Injection					Nuclear C	lass I
-			aced <u>14ST14</u>					
		rerROCK 2-C58E	vell Interna	artonal	N/A	N/A	10	78
- identifying		ofr's, serial no.)	N/A (Natl.Bd.No.)	(jurisdictional		(other)		year built)
~ Construct	•	•	• '	Winter 1971	•	N/A	1	year builty
		1969 Belition19		(atcerca)		ode Case(s))	(Code (Class)
Section XI				Summer 8			-	N/A
_		(edition)	*	· (acoder	nda)		(Code Cas	e(s))
್ರಾಂlicable e	dition of As	SME Code Section	n XI under which re	epars modifications or	replacements we	ere made: <u>1983</u>	_ <u>\$83</u>	N/A
				•		(edition)	accenda)	(Code Case(s))
≛⇔plicable e	dition of Co	onstruction Code (under which repair	s nedifications, or repla	cements were m	ade: <u>*1971</u>	W71	_N/A
				*ASME Sec. III	[(edition)	(accenda)	(Code Case(s))
Zæsign respo	escilidan							
.	_			desçr pressure 📋 🛨				
L'escription of	of work	Replaced	valve with	5/N CD-569 Yea	<u>ir Built 19</u>	986, Manufacti	<u>irer Rockw</u>	<u>ell</u>
			:3	se ಸ acciconal sheet(s or	ketch(es) is accept	table if properly identified)	
Inter	nation	al		<u> </u>				 _
			·					
. ≃e marks:		Order #: 9				ncy Report #:	SMD 92-43	1
				150-00289 Rev		 		
				scription of Re				
				as not perform				
				sure test was p		e 800 berd am	ring Tech	spec
			.5.2 para. C	CETTIFICATE OF COM	IPLIANCE			
		Temp. N/A				4 - 6 4b-a i 4 doib	.al .b	 0
			•	nc the repair, modification the sublication NB-102, o	·	t of the items describe	o above conform	is to Section XI
		_		ne stamp expires N≅ stamp expires		10 01		
erificate of Aut	norceson	no. 36	o use the	Min Steamp expires	<u> </u>	19 <u>94</u>		
in 7 - 28	10 0	1 Signed	PSE&G Co.	-Nuclear Dept.		Il is her	Prin	cipal Engr
<u> </u>	' ³	Z Signed	(repa:	r organization)	(aut	horized representative)		(title)
								
•				CETTEPICATE OF INS	PECTION			
		•	į					-
re undersigne	d, holding	a valid commission	on issued by The N	Natorial Board of Boilier	and Pressure Ves	ssel Inspectors, and ce	ertificate of comp	etency issued by
state or provi	nce of	New Jerse	ey and employ	ec by Ark	<u>vright Muta</u>	ual Insurance	<u>Co</u>	
MA	have in	spected the repa	ir, modification or	repacement described in	this report on	<u>8-25</u> , 19	92and st	ate that to the
st ಐf my knowi	edge and	belief, this repair,	modification or rep	placement has been mad	de in accordance	with Section XI of the	ASME Code and	d the National
arci rules as d	efined in th	e publication NB-	102, current editio	on. By signing this certifi	cate, neither the	Inspector nor his empl	oyer makes any	warranty,
essed or imp	olied, conc	erning the repair,	modification or rep	placement described in t	nis report. Furthe	ermore, neither the Ins	pectar nor his er	nployer shall be
e in any man	ner for any	y personal injury o	or property damage	e traticss of any kind ar	ising from or con	nected with this inspec	ction.	/
621		a () , (10.		- ハイ・フ・ファー	Mutual Sy	stem
ine 8-31	, 1 <u>9 9</u>	2 Signed S	former Z.	is of	Commission	ns NJ3/J		
		/	(Irsp	ectr;	(Nati	.Bd.No.(including endors	ements)state or pro	ovince and number)

FORM NR-1 ATTACHMENT

Code Job Package No.: <u>S92-280</u>

	Work performed by:	Public Service Electric & Gas Co., Nuclear Dept. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
2.	Owner:	Public Service Electric & Gas Co. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
3.	Location:	Salem Nuclear Generating Station Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
4.	System: <u>Safety Injection</u>	ection Nuclear Class: 1
Name	JOE N/W	Rockwell International N/A N/A 1978 Yes
Seri	ial No. Nat'l. Bd. ginal Const. Code: A	Jurist No. Other Year Built ASME Code Stamp'd.? SME Sec.III 1971 Edition W71 Addenda, Code Class 1
ID o	of Replacement: <u>145</u>	
CD-S Seri Repl	569 N/A ial No. Nat'l. Bd. lacement Const. Code	N/A N/A 1986 Yes Jurist No. Other Year Built ASME Code Stamp'd.? : ASME Sec.III 1971 Edition W71 Addenda, Code Class 1
ser:	of Component Replaced of Manufacturer:	Jurist No. Other Year Built ASME Code Stamp'd.?
Code	cases:	EditionAddenda, Code Class
Name	e of Manufacturer:	
Rep] Code		
ID o	of Component Replace	d:
Orig	ginal Const. Code:	Jurist No. Other Year Built ASME Code Stamp'd.? Edition Addenda, Code Class
ID o	of Replacement:	
Seri Repl	ial No. Nat'l. Bd. lacement Const. Code	Jurist No. Other Year Built ASME Code Stamp'd.? Edition Addenda, Code Class

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	, Public Service	Transfer a cap or) 14(m-1-cm r	ept. wr	#S92-285
		(name)			organization's P. O. no. job. no.,etc.)
Foot of B	uttonwood Road, 1	Hancocks Bridge, N	IJ 08038		
		(address)			
2. Owner Public	c Service Electr	ic and Gas Co.			
	44	(name)			
Foot of B	uttonwood Road,	Hancocks Bridge, N	D 08038		
		(address)	alas Canara	.i Station 1	
	dentification of nuclear pow	•		ing Station 1	DUTC #1
		Hancocks Bridge, N	0 08038		Nuclear Class I
	tor Coolant	1C-PRH-179 (Suppor			Nuclear Class I
b: Name of manufact		IC-FM1-179 (Suppor			
c: Identifying nos.		N/A	N/A	N/A	1975
			risdictional no.)	(other)	(year built)
	PSE&G Spec S-C			N/A	T
d. Constitution occi	(edition)	(addenda)		(Code Cass(S))	(Code Class)
6. Section XI	1983	` ′ _	er 83	N/A	,
	(edition)	(addend			Case(6))
7. Applicable edition of /	• •	der which repairs, modification	•		S83 N/A
			•	(edition)	(addenda) (Code Case(s))
8. Applicable edition of	Construction Code under v	vhich repairs, modifications, o	r replacements were	made: * N/A	N/A N/A
		*PSE&G Spec S	-C-1969-DSP-6	445 (Code) (edition)	(addenda) (Code Case(s))
9. Design responsibilitie	es PSE&G				- <u></u>
10. Tests conducted: hyd	drostatic 🛭 pneumatic 🗈	design pressure 🛘 pres	sure <u>N/A</u> psi	Temp. N/A	
11. Description of work	Replacement o	f pipe clamp for t	<u>the above note</u>	ed pipe suppor	t due to
	· ·	of additional sheet(s) or sketch(es) is as		ed)	
corresion	<u>discovered durin</u>	<u>g inservice inspec</u>	tion.		
	k Order #: 92050			ency Report #:	
	<u>ion Change Packa</u>		Rev. N/A		Rev. 2
		C D			
	attached pages	<u>for Description of</u>	Replacement.	N/A	
		for Description of	. Replacement.	N/A	
				. N/A	
		for Description of CERTIFICATE OF C		N/A	
See	attached pages ements made in this report	CERTIFICATE OF C	COMPLIANCE	ment of the items desc	cribed above conforms to
We certify that the state Section XI of the ASME	attached pages ements made in this report Code and the National Bo	CERTIFICATE OF C are correct and the repair, mard rules as defined in the pu	COMPLIANCE nodification or replace ublication NB-102, cui	ment of the items descrent edition.	cribed above conforms to
See	attached pages ements made in this report Code and the National Bo	CERTIFICATE OF C	COMPLIANCE nodification or replace ublication NB-102, cui	ment of the items desc	cribed above conforms to
We certify that the state Section XI of the ASME Certificate of Authorizat	attached pages ements made in this report Code and the National Bo	CERTIFICATE OF C are correct and the repair, mard rules as defined in the pu	COMPLIANCE nodification or replace ublication NB-102, cui	ment of the items descrent edition.	
We certify that the state Section XI of the ASME Certificate of Authorizat	ements made in this report Code and the National Bo	CERTIFICATE OF C are correct and the repair, mard rules as defined in the pu	compliance modification or replace publication NB-102, cur tamp expires Q J. Ro	ment of the items descrent edition.	rincipal Engr.
We certify that the state Section XI of the ASME Certificate of Authorizat	ements made in this report Code and the National Bo	certificate of containing the repair, monard rules as defined in the put to use the "NR" state of the containing the containing the containing the containing the certification of the certification o	compliance modification or replace publication NB-102, cur tamp expires Q J. Ro	ment of the items description.	
We certify that the state Section XI of the ASME Certificate of Authorizat	ements made in this report Code and the National Bo	cernificate of content are correct and the repair, months as defined in the put to use the "NR" state of the content of the co	compliance modification or replace ublication NB-102, cuit tamp expires Gauthoo	ment of the items description.	
We certify that the state Section XI of the ASME Certificate of Authorizat	ements made in this report Code and the National Bo	certificate of containing the repair, monard rules as defined in the put to use the "NR" state of the containing the containing the containing the containing the certification of the certification o	compliance modification or replace ublication NB-102, cuit tamp expires Gauthoo	ment of the items description.	
We certify that the state Section XI of the ASME Certificate of Authorizate Date 7/21 1	ements made in this report Code and the National Botton no	CERTIFICATE OF Contract and the repair, monard rules as defined in the put to use the "NR" state of the contract of the contract of the certificate of the certificat	COMPLIANCE nodification or replace ublication NB-102, cur tamp expires Cot. (author) NSPECTION of Boiler and Pressure	rment of the items descrete edition. 19 94 tred representative)	rincipal Engr. (#Be) I certificate of competency
We certify that the state Section XI of the ASME Certificate of Authorizate Date 7/21 1	ements made in this report Code and the National Botton no	CERTIFICATE OF Control are correct and the repair, months as defined in the polygon to use the "NR" state of the control of th	COMPLIANCE nodification or replace ublication NB-102, cur tamp expires Cot. (authority) NSPECTION of Boiler and Pressure by Arkwi	ment of the items descreted edition. 19 94 tred representative) Vessel Inspectors, and injoht Mutual I	rincipal Engr. (#Be) I certificate of competency nsurance Co
We certify that the state Section XI of the ASME Certificate of Authorizate Date 7/21 1	ements made in this report Code and the National Botton no	CERTIFICATE OF Contract and the repair, months as defined in the pair to use the "NR" state of the contract of the contract of the certificate of	COMPLIANCE andification or replace publication NB-102, cur tamp expires (authority) NSPECTION of Boiler and Pressure by Arkwithout are in this report on	rment of the items descreted edition. 3, 19 94 (verta proposentative) (versel inspectors, and right Mutual I	rincipal Engr. (the) I certificate of competency nsurance Co Zand state that to the
We certify that the state Section XI of the ASME Certificate of Authorizate Date 7/21 1 I, the undersigned, hold issued by the state or of MA have in best of my knowledge a Board rules as defined	ements made in this report Code and the National Botton no. 36 9, 92 Signed	CERTIFICATE OF Control of the repair of the	nodification or replace ublication NB-102, cur tamp expires (authoritation) NSPECTION of Boiler and Pressure or Arkwite in this report on the made in accordance in certificate, neither	rent of the items descripted edition. 19 94 Item (Inspectors, and Inspectors) 1 Vessel Inspectors, and Inspectors (Inspectors) 2 with Section XI of the the Inspector nor his en	rincipal Engr. d certificate of competency nsurance Co Z and state that to the ASME Code and the National mployer makes any warranty,
We certify that the state Section XI of the ASME Certificate of Authorizate Date 7/21 1 I, the undersigned, hold issued by the state or of MA have in best of my knowledge a Board rules as defined expressed or implied, or	ements made in this report Code and the National Botton no. 36 9, 92 Signed	certificate of control are correct and the repair, many ard rules as defined in the part to use the "NR" state of the sum	compliance andification or replace sublication NB-102, cur tamp expires (author) Arkwi the in this report on the made in accordance in certificate, neither ribed in this report. F	rent of the items descripted edition. 19 94 Item (Inspectors, and Inspectors) 10 Wessel Inspectors, and Inspector Mutual Inspector Nor the inspector nor his enforthermore, neither the	rincipal Engr. (effe) I certificate of competency nsurance Co Z and state that to the ASME Code and the National mployer makes any warranty, inspector nor his employer
We certify that the state Section XI of the ASME Certificate of Authorizate Date 7/21 1 I, the undersigned, hold issued by the state or of MA have in best of my knowledge a Board rules as defined expressed or implied, or	ements made in this report Code and the National Botton no. 36 9, 92 Signed	CERTIFICATE OF Control of the repair of the	compliance andification or replace sublication NB-102, cur tamp expires (author) Arkwi the in this report on the made in accordance in certificate, neither ribed in this report. F	rent of the items descripted edition. 19 19 19 19 19 19 19 19 19 19 19 19 19	d certificate of competency insurance Co ASME Code and the National imployer makes any warranty, inspector nor his employer ith this inspection.
We certify that the state Section XI of the ASME Certificate of Authorizate Date 7/21 1 I, the undersigned, hold issued by the state or of MA have in best of my knowledge a Board rules as defined expressed or implied, of shall be liable in any many many many many many many many	ements made in this report Code and the National Botton no. 36 9, 92 Signed	certificate of control are correct and the repair, many ard rules as defined in the part to use the "NR" state of the sum	NSPECTION of Boiler and Pressure of in this report. Fribed in this report. Fribated in this report	rent of the items descreent edition. 19 94 Item representative) Vessel Inspectors, and inches Murtual I 6-9 99 The with Section XI of the the Inspector nor his efform or connected we factory	rincipal Engr. (effe) I certificate of competency nsurance Co Z and state that to the ASME Code and the National mployer makes any warranty, inspector nor his employer
We certify that the state Section XI of the ASME Certificate of Authorizate Date 7/21 1 I, the undersigned, hold issued by the state or of MA have in best of my knowledge a Board rules as defined expressed or implied, or	ements made in this report Code and the National Botton no. 36 9, 92 Signed	certificate of control are correct and the repair, many ard rules as defined in the part to use the "NR" state of the sum	NSPECTION of Boiler and Pressure of in this report. Fribed in this report. Fribed in this report. Foss of any kind arisin Commissions	rent of the items descreent edition. 19 94 Item representative) Vessel Inspectors, and item Murtual I 6-9 99 The with Section XI of the the Inspector nor his efform or connected we factory	d certificate of competency insurance Co ASME Code and the National imployer makes any warranty, inspector nor his employer ith this inspection.

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work pe	erformed b	y Public S	Service Elect	ric & Gas	Co Nucle	ear Dept.	CJP #S92-291	
					(name:		(repair organization's P. O.	no. job. no.,etc.
Foo	ot of B	<u>ttonwood</u>	Road, Hancoc	ks Bridge	, NJ 08038			
			 		dorses.			
2. Owner	Public	: Service	Electric and	Gas Co.				
-			٠.		neme;			
Foo	ot of B	nttonwood	Road, Hancoc	ks Bridge	, NJ 08038			
				(ad	dress)			
3. Name, ac	ddress and	identification of	nuclear power plant	Salen	Nuclear Ger	merating Stati	on Unit #1	
Foo	ot of B	<u>ittonwood</u>	Road, Hancoc	ks Bridge	, NJ 08038			
4. System	Reac	tor Coolar	nt				Nuclear Cl	ass I
5. a: Compoi	nent repaire	d, modified or re	epiaced <u>1PR6 V</u>	alve			·	
b: Name	of manufac	turerVe]	Lan			<u> </u>		
c: Identify	ing nos	801354B13	MN/A_		N/A	N/A	196	6
		(mfr.'s serial no.)	(Nat'l. Bd. No.)		(jurisdictional no.)	(other	n) (yes	ur built)
d: Constru	uction Code	W E-Spec	<u> </u>	6 N/A		N/A	1	
ANS]	B31.7	1969 Edw	436970 Add.	(addenda)		(Code Case(s))	(Code (Class)
6. Section X	ü	1983	3	S	ummer 83	N/A		
		(editio	n) .	(addenda)		(Code Case(s))	
7. Applicable	e edition of	ASME Code Se	ection XI under which	repairs, modif	ications, or replacer	ments were made: 19	983 <u>\$8</u> 3 .	N/A
						(edition) (addenda)	(Code Case(s))
8. Applicable	e edition of	Construction C	ode under which rep	airs, modificati	ons, or replacement	ts were made: * W	E_Spec. 676258	N/A
- ,,						1970 Add. (Code)		(Code Case(s))
9. Design re	esponsibilit	ies PSE&G		,				• • •
10. Tests cor			neumatic [] desig	n pressure 🛚	pressure NOP	psi Temp. N/	A **Other	
	•	•	ed valve stem	-			•	
					(es) is acceptable if prope			
			•	• *		•		
			· · · · · · · · · · · · · · · · · · ·					
12. Remarks:	Wor	k Order #	920423108		Def	ficiency Repor	t #: N/A	
	Des	ign Change	Package #:	N/A	Rev. N/A			
	See	attached	pages for De	scription	of Replacem	ment. N/A		
			service Test					
				· · · · · · · · · · · · · · · · · · ·				
1				CERTIFICATE	OF COMPLIANCE			
1								
			in this report are corr National Board rule:				ems described above co	ontorms to
Certificate			National Boald Idle		NR* stamp expires		19 04	
Continuation			36			95.73, 7	' '-94- '	
Date 8	5	19, <u>92</u> . Signe	d DEFIC CO	-Nuclear	Dont_ U	V. Koberti	Principal E	nor
,			10540 001	(repair organization	DOPOI	(authorized representative		
	T T	7				- 		
				CCDTICATI	E OF INSPECTION			
1				CENTIFICATI	E OF INSPECTION			
I, the under	sianed, hol	ding a valid co	mmission issued by	The National B	oard of Boiler and f	Pressure Vessel Insped	ctors, and certificate of o	competency
		province of	New Jersey			Arkwright Mutu	ual Insurance C	<u>σ</u> α
of MA_	have i	nspected the re	pair, modification or	replacement of	lescribe in this repo		, 199 Z_and state	
							XI of the ASME Code an	
							nor his employer makes	
eball be lies	or implied, Ne io any a	concerning the	repair, modification	or rebiacement	or a loss of any bin	apon. runnermore, no ad arising from or con-	either the Inspector nor nected with this inspecti	ins employer
Silali De ilal	ore in any n	namer for any	Personal milary or bu	party Garriage	OI A 1055 OF ALTY KILL		tory Mutual Sys	
Date 8	5-6	_,19 <u>92</u> /Signe	a Yomen E	· Cosh	Comr	missions WJ3	7.5	
				Authorized Inspecto	7	(Natl.Bd.No.(Includin	g endorsements)state or provin	ce and number)
			· · · · · · · · · · · · · · · · · · ·					

FORM NR-1 REPORT OF REPAIR (MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Page 1 of 1

1 Work performed by Public Service Election	ric & Gas Co Nuclear	Dept. CJP #	S92-296
	(name)		organization's P. O. no. job. no.,etc.)
Foot of Buttonwood Road, Hancock	ks Bridge, NJ 08038	- 	
mulli- Carrier Mashria and	(address)		
2. Owner Public Service Electric and	Gas Co.		
Foot of Buttonwood Road, Hancock	ks Bridge, NJ 08038		·
- FOOL OF INCOME HOME, TERROR	(address)		
3. Name, address and identification of nuclear power plant	Salem Nuclear Genera	ating Station U	mit #1
Foot of Buttonwood Road, Hancock			.
4. System Chemical Volume Control		, <u>)</u>	Tuclear Class I
5. a: Component repaired, modified or replaced C-CVCS-	-587 Hanger		
b: Name of manufacturer PSE&G			
c: Identifying nos. N/A N/A	N/A	N/A	1975
(mfr.'s serial no.) (Nat'l. Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code PS Hanger Spec. S-C		N/A	<u> </u>
ANSI 6834.7 1969 Ed.	-	(Code Case(s))	(Code Class)
6. Section XI 1983	Summer 83	<u> N/A</u>	
(edition)	(addenda)	(Code 0	S83 N/A
7. Applicable edition of ASME Code Section XI under which	repairs, modifications, or replacements		
8. Applicable edition of Construction Code under which repa	irs modifications or replacements we	(edition)	(addenda) (Code Case(s))
• •	S Hanger Spec. S-C-1969		(addenda) (Code Case(s))
	NSI B31.7 1969 Ed. 1970		(2000)24
10. Tests conducted: hydrostatic □ pneumatic □ design	pressure D pressure N/A p	si Temp. N/A *	
11. Description of work Performed weld repair			
	sheet(s) or sketch(es) is acceptable if properly iden		
facilitate maintenance.			
			
12. Remarks. <u>Work Order #: 920429079</u>			
Deficiency Report #: N/A		:	
*No Preservice Test Requi	rea		·
			
	CERTIFICATE OF COMPLIANCE		,
}			
We certify that the statements made in this report are correll Section XI of the ASME Code and the National Board rules			ribed above conforms to
Certificate of Authorization no.	to use the "NP" stamp evoices	. 10	
1/0 00	_ to doe the HH statish explies	77 1	
Date 6/9 19,92 Signed PSESC CO.	-Nuclear Dept. (1)		rincipal Engr.
	epair organization) (au	thorized representative)	(itte)
		रोक संबंध <u>क सब्दे जब सब सब्दे क</u>	<u> </u>
	CERTIFICATE OF INSPECTION	•	
I, the undersigned, holding a valid commission issued by T	he National Roard of Roiler and Press	ura Vassal Inspactors and	conficate of competency
	and employed by Ark	wright Mutual I	rsurance Co
of have inspected the repair, modification or in			92 and state that to the
best of my knowledge and belief, this repair, modification or Board rules as defined in the publication NB-102, current ed			
expressed or implied, concerning the repair, modification o		•	
	r replacement described in this report.		Inspector nor his employer I
shall be hable in any marrier for any personal injury of pro-	r replacement described in this report. Derty damage or a loss of any kind ari	sing from or connected wi	th this inspection.
$\mathcal{L}(\mathcal{L}(\mathcal{L}))$	perty damage or a loss of any kind arise	sing from or connected wi Factory 1	th this inspection. Mutual System
Date June 9 .19 92 Signed Comme		sing from or connected w Factory I ons_ <i>NB7866_N</i> J	th this inspection.

orm may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229.

NB-81

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

: Work performed by Public Service Electric & G	as Co Nuclear D	ept. CJP :	#S92-29 7
	(name		organization's P O no job no.,etc.
Foot of Buttorwood Road, Hancocks Bride	ge, NJ 08038		
	(adgress		
2 Owner Public Service Electric and Gas Co.	·		
East of Dattowned Dond Usesseles Duide	(name,		
Foot of Buttonwood Road, Hancocks Bride			
,	em Nuclear Generat	ing Station I	mi+ #1
Foot of Buttonwood Road, Hancocks Brick		ing scatter t	MILC #1
4. System Chemical Volume Control	ge, ie 00050	. }	Vuclear Class I
5 a Component repaired, modified or replaced 1CV75 Valve			<u> </u>
b: Name of manufacturer Cope-Vulcan			,
c: Identifying nos. N/A N/A	N/A	N/A	1968
(mfr.'s serial no.) (Nat'i. Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code Westinghouse E-Spec. 676270	1966	N/A	1
ANSI B31 7 1969 Ed. 1970 Add	à.	(Code Case(s))	(Code Class)
6 Section XI <u>1983</u>	Summer 83	_N/A	
(edition)	(addenda)	(Code C	Case(s))
7 Applicable edition of ASME Code Section XI under which repairs, mod	lifications, or replacements we	ere made: <u>1983</u>	_S83 <u>N/A</u>
		(edition)	(addenda) (Code Case(a))
8. Applicable edition of Construction Code under which repairs, modifica	itions, or replacements were r	nade: _*	
*Westingh	ouse E-Spec. 67627	0 1966/e) (edition)	(addenda) (Code Case(s))
	.7 1969 Ed. 1970 A		
	pressure <u>NOP</u> psi	Temp. N/A *	
 Description of work <u>Replaced plug and stem asset</u> 	mbly.		
(use of additional sheet(s) or sketc	h(es) is acceptable if properly identified	d)	
		·····	
10 Paradia Maria Ordan #1 020511007	Poficio	mar Domort #e	CMD 02-510
12. Remarks: Work Order #: 920511087 Design Change Package #: N/A	Rev. N/A	ncy Report #:	210 35-210
See attached pages for Description		N/A	
*System Inservice Test Performed			
-System inservice less remonited	ac normal out.		
CERTIFICAT	E OF COMPLIANCE		
We certify that the statements made in this report are correct and the re Section XI of the ASME Code and the National Board rules as defined in	•		cribed above conforms to
1 _	"NR" stamp expires	rem edition.	
30	3ct/) 3, 	
Date 8/4 1992 Signed PSESS Co. Nuclear	Dept UJ Ke	Certiff D	rincipal Engr
(topair organization	on) (authori	zed representative)	(tifle)
CERTIFICAT	TE OF INSPECTION		
I, the undersigned, holding a valid commission issued by The National issued by the state or province of New Jersey and emp	Board of Boiler and Pressure	Vessel Inspectors, and ight Mutual Ir	I certificate of competency
issued by the state or province of <u>New Jersey</u> and emp of <u>MA</u> have inspected the repair, modification or replacement			and state that to the
best of my knowledge and belief, this repair, modification or replacement			
Board rules as defined in the publication NB-102, current edition. By sign	oning this certificate, neither t	he Inspector nor his en	nployer makes any warranty,
expressed or implied, concerning the repair, modification or replacement		arthermore, neither the	Inspector nor his employer
shall be liable in any manner for any personal injury or property damag	a ar a lace of any lited articles	from or accommed and	
	e or a loss of any kind arising		ith this inspection.
Date 8-12 ,1972 Signed Jones E. Cul	e or a loss of any kind arising Commissions	Factory M	

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work performed by Public Service Electric & Ga	as Co Nuclear De	ept. CJP	#S92-300
Part of Duttow and Dond Hammalia Duide	(name)	(герал	organization's P. O. no. job. noetc
Foot of Buttonwood Road, Hancocks Bridg			
2. Owner Public Service Electric and Gas Co.	(address)		
	(name)		
Foot of Buttonwood Road, Hancocks Bridg	ge, NJ 08038		
· ·	odress)		
Name address and identification of nuclear power plant Sale		ing Station	Unit #1
Foot of Buttonwood Road, Hancocks Bridg	e, NU 08038		N1 Cla T
4 System Reactor Coolant 5 a Component repaired, modified or replaced Rear Bracket f	ian Machanian I Crush		Nuclear Class I
b. Name of manufacturer <u>Pacific Scientific</u>	or medianical shur	DOET IC-PRSN-	.007
c: Identifying nos. 17676 N/A	N/A	N/A	1976
(mtr.'s serial no.) (Nat'l Bd. No.)	(jurisdictional no.)	(other)	(year built:
d Construction Code PS Snubber Spec 73-6402 1976	•	N/A	7
ANSI B31.7 1969 Educal 970 Add. (addenda)		(Code Case(s))	(Code Class)
	Summer 83	N/A_	,
(edition)	(addenda)		Case(s))
7 Applicable edition of ASME Code Section XI under which repairs, modi	fications, or replacements we	re made: <u>1983</u>	_S83N/A
		(edition)	(addenda) (Code Case(s))
8 Applicable edition of Construction Code under which repairs, modificat			
*ASME Sec. III/PS	-	5402/code; (edition) (addenda; (Code Case(s);
9. Design responsibilities PSE&G ANSI B31.7 1969 E			
10. Tests conducted, hydrostatic [] pneumatic [] design pressure []		Temp. N/A **	Other
11. Description of work <u>Replaced rear bracket by we</u>	•		
(use of additional sheet(s) or skelch	i(es) is acceptable if properly identified)	
			
12. Remarks. Work Order #: 920504125	Deficier	ncy Report #:	SMD 92-503
Design Change Package #: N/A			
See attached pages for Description	on of Replacement.	N/A	·
**VT-3 Preservice Examination			
0000000	- 05 00110111105		
CERTIFICATE	E OF COMPLIANCE		
We certify that the statements made in this report are correct and the re	pair, modification or replacem	nent of the items des	cribed above conforms to
Section Xi of the ASME Code and the National Board rules as defined in	•	ent edition.	
Certificate of Authorization no. 36 to use the	"NR" stamp expires oct.,	~3, ', ¹⁹ 94	<u>.</u> ,
Date 7/4 19.92 Signed DOREC CO -NUCLOST	. nont Q.J. K	over to	ringinal From
(repair organization	n) (authorize	ed representative)	(title)
CERTIFICAT	E OF INSPECTION		
	2 0/ 1/10/ 20/10/1		
I, the undersigned, holding a valid commission issued by The National E			
issued by the state or province of New Jersey and emploid MA have inspected the repair, modification or replacement	• •	ight Mutual I	nsurance Co 92 and state that to the
	gescribe in ma report on		
best of my knowledge and belief, this repair, modification or replacement	has been made in accordance	with Section XI of the	ASME Code and the National
Board rules as defined in the publication NB-102, current edition. By sig	ning this certificate, neither th	e Inspector nor his e	mployer makes any warranty,
Board rules as defined in the publication NB-102, current edition. By sig expressed or implied, concerning the repair, modification or replacemen	ning this certificate, neither th t described in this report. Fu	e Inspector nor his e rthermore, neither th	mployer makes any warranty. e Inspector nor his employer
Board rules as defined in the publication NB-102, current edition. By sig expressed or implied, concerning the repair, modification or replacement shall be liable in any manner for any personal injury or property damage	ning this certificate, neither th t described in this report. Fu	e Inspector nor his e rthermore, neither the from or connected w	mployer makes any warranty, e Inspector nor his employer vith this inspection.
Board rules as defined in the publication NB-102, current edition. By sig expressed or implied, concerning the repair, modification or replacemen	ning this certificate, neither the described in this report. Fusion or a loss of any kind arising Commissions	e Inspector nor his e rthermore, neither the from or connected w	mployer makes any warranty. e Inspector nor his employer

FORM NR-1 REPORT OF REPAIR WODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Design		Work performed by Public Service Electric & Gas Co Nuclear Dept. CJP #S92-301	
Public Service Electric and Gas Co. Procedure Pro			i de no.,etc.)
Foot of Buttorwood Road, Hancodes Bridge, NJ 08038 1. Name, address and identification of nuclear power plant. Salem Nuclear Generating Station Crit #1 Foot of Buttorwood Road, Hancodes Bridge, NJ 08038 3. System Steam Generator Boiler Feedwater Nuclear Class II Steam Generator Boiler Feedwater Nuclear Class II Steam of "anufacture" Rockwell International cidentifying on. PSIC-45 N/A N/A N/A N/A N/A N/A International dictionstructor Dode ASME Draft Code for Pamp & Valves 1968 Ed. 1970 Add. N/A 2 ANS. 331,7 1969 Ribber 1970 Add. externational cidentifying one PSIC-45 Applicable script of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 Applicable script of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 Applicable script of Construction Code under which repairs, modifications, or replacements were made: 1983 S83 Applicable script of Construction Code under which repairs, modifications, or replacements were made: 1983 S83 N/A Applicable script of Construction Code under which repairs, modifications, or replacements were made: 1983 S83 N/A Applicable script of Construction Code under which repairs, modifications, or replacements were made: 1983 S83 N/A Applicable script of Construction Code under which repairs modifications, or replacements were made: 1983 S83 N/A Composition of Construction Code under which repairs modifications, or replacements were made: 1983 S83 N/A Applicable script of Construction Code under which repairs modifications, or replacements were made: 1984 S83 N/A Applicable script of Construction Code under which repairs modifications, or replacements were made: 1984 S83 N/A Composition of Construction Code under which repairs modification or replacements were made: 1984 S83 N/A Composition repairs of N/A Applicable script of Construction Code under N/A Descriptor: work Performed weld repair on Valve seat and body and replaced boliting. We cartify that the state of provin			
E Name, address and identification of nuclear power plant Salem Nuclear Generating Station Crit #1 Proof: of Buttornwood Road, Hancocks Bridge, NJ 08038 A System Steam Generator Boller Feedwater Nuclear Class II a Componer stealized, modified or replaced 11BF22 b: Name of amulacturer Rockwell International c: Kentifying res. RSIC-45 N/A N/A N/A RSIC-45 N/A N/A N/A ANSI 27 ANSI 2717 1969 Eden 1970 Add accordes c: Cools Cose(1) Cools Cose(1) A Special Recurrence of ASME Code Section XI under which repair, modifications, or replacements were made: 1983 S83 N/A Applicable scinon of ASME Code Section XI under which repair, modifications, or replacements were made: 1983 S83 N/A Applicable scinon of Construction Code under which repair, modifications, or replacements were made: 1983 S83 N/A Applicable scinon of Construction Code under which repair, modifications, or replacements were made: 1983 S83 N/A Applicable scinon of Construction Code under which repair, modifications, or replacements were made: 1983 S83 N/A **ASME Draft Code for Pumps & Valve/code column published Cose Cose(1) **ASME Draft Code for Pumps & Valve/code column published Cose Cose(1) **ASME Draft Code for Pumps & Valve/code column published Cose Cose(1) **Cose Cose(1) **Penarks: Work Order 1: 920418050 Deficiency Report 1: SMD 92-519 **System Tinservice Test Performed at NOP/AIOT **Certificate of Aumorization no. 36 Date Y - 2 & 199.2. Signed Tose(2) **Certificate of Aumorization no. 36 Date Y - 2 & 199.2. Signed Tose(2) **Certificate of Aumorization no. 36 Date Y - 2 & 199.2. Signed Tose(2) **Certificate of Marker 1 and Pressure Vessel Inspectors are partificate of concertency security that a scale for the publication of replacement described in this report are correct and the repair, modification or replacement described in this report are correct and the repair on the publication of the Sign of State State of the State State of the State State of the State State of the State State State of the State State State	2	Owner Public Service Electric and Gas Co.	
Enemarks: and identification of nuclear power plant Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 System Steam Generator Boller Redwater Runal Redwater Runal Redwater Redwater Redwater Runal Redwater Red		·	·
System Steam Generators Boiler Reckwell International 2 a Component subsisted, modified or replaced 2 11EF22 b. Name of "amufacturer Rockwell International c. Identifying ross. RSJC-45 N/A			
System Steam Generator Boller Feedwater 2 a Componer tendered, modified or replaced	Ξ	Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1	
2 a Component repaired, modified or replaced 11BF22 b. Name of amunicaturer Rockwell Tinternational cidentifying rose. BSIG-45 N/A			
b. Name of "amufacturer Rockwell International c. identifying the RSIC-45 N/A	Ŧ,	System Steam Generator Boiler Feedwater Nuclear Cla	ess II
Cidentifying the PSIC-45 N/A	3	a: Component magaired, modified or replaced 11BF22	
(intrins sealed in a part of the sealed in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI or a SIME Draft Code for Pump & Valve S1968 Ed. 1970 Add. N/A 2 Section XI 1983 Summer 83 N/A 2 Section XI 1983 Summer 83 N/A Applicable extrain of ASME Code Section XI under which recairs, modifications, or replacements were made: 1983 S83 N/A Applicable extrain of Construction Code under which recairs, modifications, or replacements were made: 1983 S83 N/A 4 Applicable extrain of Construction Code under which recairs modifications, or replacements were made: 1983 S83 N/A **ASME Draft Code for Pumps & Valve/ Codes settles addended Code Complete Pumps & Valve/ Codes settles addended Code Code Code (Inc.) **ASME Draft Code for Pumps & Valve/ Codes settles addended Code Code Code (Inc.) **ASME Draft Code for Pumps & Valve/ Codes settles addended Code Code Code (Inc.) **ASME Draft Code for Pumps & Valve/ Codes settles addended Code Code Code Code (Inc.) **ASME Draft Code for Pumps & Valve/ Codes settles addended Code Code Code Code Code Code Code C		b: Name of _amufacturerRockwell_International	
di Construction Code ASME Draft Code for Pump & Valves 1968 Ed. 1970 Add. N/A ANST 331.7 1969 Edition) 1983 Summer 83 N/A (edition) Applicable extrain of ASME Code Section XI under which recairs, modifications, or replacements were made: 1983 S83 Applicable extrain of Construction Code under which recairs, modifications, or replacements were made: 1983 S83 Applicable extrain of Construction Code under which recairs, modifications, or replacements were made: 1983 S83 Applicable extrain of Construction Code under which recairs, modifications, or replacements were made: 1983 S83 Applicable extrain of Construction Code under which recairs, modifications, or replacements were made: 1983 S83 Applicable extrain of Construction Code under which recairs, modifications and the construction Code under which recairs, modification or Temps & Valve/ Code		c: Identifying ress. PSJC-45 N/A N/A N/A N/A	
ANSI 331.7 1969 Editor) 1970 Add. Section X 1983 Summer 83 N/A [ceditor) [ceditor] [(mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) (was:	nuit;
Section X 1983 Summer 83 N/A (editor) (order-date) (d Constructor Code ASME Draft Code for Pump & Valves 1968 Ed. 1970 Add. N/A 2	· · · · · · · · · · · · · · · · · · ·
Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A Applicable edition of Construction Code under which repairs, modifications, or replacements were made: 1983 1970 M/A Applicable edition of Construction Code under which repairs, modifications, or replacements were made: 1985 1970 N/A **ASME Diraft Code for Pumps & Valve/Code; additional incidence of the company of the code of		ANSI 331.7 1969 Edden) 1970 Add. addenda) (Code Case(s)) (Code Case(s))	
Applicable extration of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A Applicable extration of Construction Code under which repairs modifications, or replacements were made: 1982 1970 N/A *ASME Draft Code for Pumps & ValVe/ Code; sodern paddends Code Case(I) Design resconsibilities PSESG ANSI B31.7 1969 E4, 1970 Add. Tests conducted: hydrostatic II pneumatic II design pressure II pressure NDP psi Temp, N/A * Description: work Performed weld repair on valve seat and body and replaced boilting. (use of additions presting) or steatingle) a acceptable if property identified) **Emarks: Work Order #: 920418050 Deficiency Report #: SMD 92-519 **System Thiservice Test Performed at NOP NoT CENTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. 36 Date Y - 2 £ 1972. Signed PEEC Co. Nuclear Dept. Airborization (III) CENTIFICATE OF INSPECTION i. the undersuppers. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and state trat to the Dest of my knowledge and belief, this repair, modification or replacement describe in this report on 100 New Jersey and employed by Arkwright Mutual Desurrance Co of MA make inspected the repair, modification or replacement describe in this report on 100 New Jersey and employed by Arkwright Mutual Desurrance Co of MA make inspected the repair, modification or replacement describe in this report on 100 New Jersey and employed by Arkwright Mutual Desurrance Co of MA make inspected the repair, modification or replacement describe in this report on 100 New Jersey and employed by Arkwright Mutual System Section or his employer shall be liable or any manner for any personal injury or procery damage or a loss of any kind arising from or connectance with this ins	ž	Section XI 1983 Summer 83 N/A	
Applicable account of Construction Code under which repairs modifications, or replacements were made: *ASME Draft Code for Pumps & ValVe/code; edeam (addenda) N/A *ASME Draft Code for Pumps & ValVe/code; edeam (addenda) Code Cade(s)) *ASME Draft Code for Pumps & ValVe/code; edeam (addenda) Code Cade(s)) *ASME Draft Code for Pumps & ValVe/code; edeam (addenda) Code Cade(s)) *ASME Draft Code for Pumps & ValVe/code; edeam (addenda) Code Cade(s)) *ASME Draft Code for Pumps & ValVe/code; edeam (addenda) Code Cade(s)) *Associated in the Session of Code (addenda) Code Cade(s) *ASME Code addenda results) or station(s) a accordable if properly identified) **Centificate of Accordance in this report are correct and the repair, modification or replacement of the items described above contrins to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. **Centificate of Actionization no		(edition) (addenda: Coœ Same))	
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*ASME Draft Code for Pumps & Valve/code added added Code Code Code (pi) *ASME Bil.7 1969 Ed. 1970 Add. **Code Code Code (pi) *ASME Bil.7 1969 Ed. 1970 Add. **Code Code Code (pi) **ASME Draft Code for Pumps & Valve/code (pi) **ASME Draft Code (pi) **Assembly Code (pi) **Assemb		(edition: suddenda)	Coope Casse(s))
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(use of additions a reentral) or sketch(est) is acceptable if properly identified) Permarks: Work Order #: 920418050 Deficiency Report #: SMD 92-519 *System Inservice Test Performed at NOP/NoT CENTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no. 36	-:		
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Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	:	CERTIFICATE OF COMPLIANCE	
Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no			
Date 7 - 2 £ 19.9 2. Signed PSESC Co. Nuclear Dept. (authorized representative) CERTIFICATE OF INSPECTION The undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and partificate of competency issued by the state or province of New Jersey and employed by Arkwright Mirtual Insurance Co of MA have inspected the repair, modification or replacement describe in this report on 15 miles and the publication of the National Board of Insurance Co of MA the publication of the National Board of Manage in accordance with Section XI of the National Board rules as perined in the publication NB-102, current ections. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or modification of replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or processy damage or a loss of any kind arising from or connected with this inspection. Date 19.92 Signed Commissions Minimal System Commissions Minimal System Commissions		, , , , , , , , , , , , , , , , , , ,	ioms to
Date Y-26 19.92. Signed PSEC Co. Nuclear Dept. Authorized representative) CERTIFICATE OF INSPECTION The undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and partificate of competency issued by the state or province of New Jersey and employed by Arkwright Mirtual Insurance Co of Ma nave inspected the repair, modification or replacement describe in this report on 15.75 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and re National Board rules as defined in the publication NB-102, current educon. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or molied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or processy damage or a loss of any kind arising from or connected with this inspection. Date 19.92 Signed Commissions Minimal System			
CERTIFICATE OF INSPECTION i., the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and controlled of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co of Ma nave inspected the repair, modification or replacement describe in this report on Section X of the AME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or modification of replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or processly damage or a loss of any kind arising from or connected with this inspection. Date Signed Figure Commissions Commissions		36 Cct. 3, 19 94	j
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the undersigned holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, arc partificate of competency issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co of MA nave inspected the repair, modification or replacement describe in this report on 15 15 and state that to the pest of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or modified, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or processy damage or a loss of any kind arising from or connected with this inspection. Date 19 Signed 10 Minutes 10 System Commissions 10 System 11 System 12 System 13 System 14 Signed 15 System 15 System 15 System 15 Signed 15 System 15		TOLIGO CO, INICIONE DEDCE DE LE CONTROL DE LA CONTROL DE L	-91
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issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co of MA nave inspected the repair, modification or replacement describe in this report on 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as staffined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his amplifyer makes any warranty, expressed or modified, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or processy damage or a loss of any kind arising from or connected with this inspection. Date 15 and state that to the best of my kind accordance with Section XI of the ASME Code and the National Board rules as staffing the inspection of the National Board rules as staffing the inspection of the ASME Code and the National Board rules as staffing the Inspection of the ASME Code and the National Board rules as staffing the Inspection of the ASME Code and the National Board rules as staffing the Inspection of the ASME Code and the National Board rules as staffing the Inspection of the ASME Code and the National Board rules as staffing the Inspection of		CENTIFICATE OF INSPECTION	
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Board rules as settined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or moving, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or processy damage or a loss of any kind arising from or connected with this inspection. Date			
expressed or make the magnetic modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable or any manner for any personal injury or processy damage or a loss of any kind arising from or connected with this inspection. Date			
shall be liable r any manner for any personal injury or processy damage or a loss of any kind arising from or connected with this inspection. Date			
Date 5. 197 Signed from Commissions W33			
Date 9, 1971 Signed Frank Commissions NO 373	;		
	: :		
			and number)

FORM NR-1 ATTACHMENT

Code Job Package No.: <u>S92-301</u>

	Work performed by:	Public Service Electric & Gas Co., Nuclear Dept. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
2.	Owner:	Public Service Electric & Gas Co. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
3.	Location:	Salem Nuclear Generating Station Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
4.	_	rator Boiler Feedwater Nuclear Class: 2	
ID	of Component Replace	d:	_
Ori	ginal Const. Code:	Jurist No. Other Year Built ASME Code Stamp'd. Edition Addenda, Code Class	? —
ID ·	of Replacement: Stu	ds	
Rep	lacement Const. Code	Allied Nut & Bolt Co. N/A N/A N/A NO Jurist No. Other Year Built ASME Code Stamp'd. : ASME Sec.III 1977 Edition S82 Addenda, Code Class	- -
ID n	of Component Replace e of Manufacturer: _	d:	
Ori	ial No. Nat'l. Bd. ginal Const. Code: _ e Cases:	Jurist No. Other Year Built ASME Code Stamp'd. Edition Addenda, Code Class	-
Nam N/A Ser Rep Cod	ial No. Nat'l. Bd.	Allied Nut & Bolt Co. N/A N/A No Jurist No. Other Year Built ASME Code Stamp'd. : ASME Sec. III 1977Edition S82 Addenda, Code Class	-
ID (of Component Replace	d:	
Ori	ginal Const. Code:	Jurist No. Other Year Built ASME Code Stamp'd. Edition Addenda, Code Class	•
ID (
Pep.	lacement Const. Code	Jurist No. Other Year Built ASME Code Stamp'd. Edition Addenda, Code Class	፣ —
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FORM NR-1 REPORT OF REPAIR 🖾 MODIFICATION 🗌 OR INSTALLATION OF REPLACEMENT(S) 🗀

TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1 mf 1 York personer by Public Service Electric & Gas Co. - Nuclear Dept. CJP #S92-302 (repair organization's P. Q. no. 201. 192. 482. Foot of Buttonwood Road, Hancocks Bridge, NJ Public Service Electric and Gas Co. 2. Owner Foot of Buttonwood Road, Hancocks Bridge, NJ Salem Nuclear Generating Station Unit #1 3. Name, address and identification of nuclear power plant Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Nuclear Class 4. System Steam Generator Boiler Feedwater 5. a: Component recognized, modified or replaced / 12BF22 Valve b: Name of mamurfacturer Rockwell N/A c: Identifying ness ______PSJC=20 N/A N/A (Nat'l, Bd. No.) (jurisdictional no.) (other) ASME Draft Code for Pumps & Valves 1968 Ed. 1970 Add. d: Construction Code ASME B31.7 1969 Edwol970 Add. (Code Case(s)) (addenda) Section X 1983 Summer 83 (ndition) (Code Case(s)) **S83** Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 (adition) 1970 Applicable edition of Construction Code under which repairs, modifications, or replacements were made: 👲 *ASME Draft Code for Pumps & Valves/ (code) (edition) (addenda) ANSI B31.7 1969 Ed. 1970 Add. Design restorsibilities PSE&G 10. Tests conducted hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure NOP psi Temp. N/A **Other Description of work <u>Performed weld repair on valve body and seat and replaced bolting.</u> (use of additional sheet(s) or sketch(es) is acceptable if properly identified) Work Order #: 920418112 12. Remarks: Deficiency Report #: SMD 92-536 **System Inservice Test Performed @ NOP CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above continues to Section X of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. to use the *NR" stamp expires Oct. 3, Certificate of Austriprization no. * Date 7 - 2 ____ 19,9 Z Signed hulinke PSE&C Co.-Nuclear CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency Arkwright Mutual Insurance Co issued by the state or province of ______New Jersey and employed by____

mave inspected the repair, modification or replacement describe in this report on , 191 and state that it me best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the hazonal Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any wearranty. expressed or microid, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor he ambidyer shall be sabe 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

199uSigned $_$

(Authorized Inspector)

Commissions

(Natl.Bd.No.fincluding endorsements) state or province and number:

FORM NR-1 REPORT OF REPAIR O MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

performed by Public Service Electric & Gas Co Nuclear Dept.	CJP #S9	2-303
(name)	frepair organ	nization's P. O. no. job. no.,etc.)
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038		-
(address)		
2.0we Public Service Electric and Gas Co.		·
(name)		
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038		
3. Name address and identification of nuclear power plant Salem Nuclear Generating S	tation Ini	t #1
3. Name address and identification of nuclear power plant Salem Nuclear Generating S Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	ocacidi Uili	.L #1
4 System Steam Generator Boiler Feedwater	Mix	lear Class II
5. a Component repaired, modified or replaced 13BF22 Valve	1100	ten crass ii
b Name of manufacturer Rockwell	*.	
c centifying nos. PSJC-59 N/A N/A	K/A	N/A
(mfr.'s serial no.) (Net'. Sc. No.) (jurisdictional no.)	patrent	(year built)
d Construction Code ASME Draft Code for Pumps & Valves 1968 Ed. 1970	Add. N/A	2
ANSI B31.7 1969 Fights on 1970 Add. (addenda (Code Ca	130(32)	Code Class)
6. Section XI 1983 Summer 83 N	1/1	
(edition) (addenda)	(Code Case)	s))
7. Accircable edition of ASME Code Section XI under which repairs, modifications, or replacements were made	: <u>1983 _ S</u>	83 N/A
	edition) (ad	idenda (Code Case(sj)
8 Accircable edition of Construction Code under which repairs, modifications, or replacements were made: _	<u>* 1968</u>	1970 N/A
*ASME Draft Code for Pumps & Valves/ *ASI B31.7 1969 Fd. 1970 Add.	Com (edition)	(adderca (Code Case(s))
9. Design responsibilities		
10. Tests conducted: hydrostatic [N/A **OU	IET
11 Description of work Performed weld repair to valve body and seat.		
(use of acciditional sheet(s) or swatch(es) is acceptable if property identified)	•	
<u> </u>	·	
Work Order #: 920418113		
12. Fernarks: Deficiency Report ‡: SMD 92-534		· · · · · · · · · · · · · · · · · · ·
**System Inservice Test Performed @ NOP		
CERTIFICATE OF COMPLIANCE		•
•		
We certify that the statements made in this report are correct and the repair, modification or replacement of		ed above conforms to
Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition Certificate of Authorization no. 36 to use the "NR" stamp expires Oct. 3,		
Certificate of Authorization no. 36 to use the "NR" stamp expires Oct. 3,	, 1 9 <u>94</u> .	
Dame X-7 & 19, 92 Signed PSE&G CoNuclear Dept. Shalle	Pri	cipal Engr.
(repair organization) (authorized represe		(Dities
CERTIFICATE OF INSPECTION		
i, the andersigned, holding a valid commission issued by the National Board of Boiler and Pressure Years in All Williams	messa and se	tificate of competency
issued by the state of province of and employed by		and state that to the
ofnave inspected the repair, modification or replacement describe in this report on		
Board rules as defined in the publication NB-102 current edition. By signing this certificate, neither the Inspe		
expressed or immitted concerning the repair motification or replacement described in this report. Furthermo	ore -either the los	pector par his employer
shat be liable in any manner for any personal injury or property damage or a loss of any kind arising from or	FEETORY WILL	his insection Trails System
Date 8-27 ,1992 Signed Lorna & Commissions N.	H-37	_
,	J212	
	nazing endorsements	state or province and number)

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) [] TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

_ 1	Work performed by Public Service Electric & Gas Co Nuclear Dept. CJP #S92-304	
	(repair organization's P. O. no. job. no., etc.) Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	.,
_	Owner Public Service Electric and Gas Co.	
2.		_
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
	(address)	
3.	Name, address and identification of nuclear power plant <u>Salem Nuclear Generating Station Unit #1</u> Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
4	System Steam Generator Boiler Feedwater Nuclear Class II	_
	a: Component repaired, modified or replaced 14BF22	_
-	b: Name of manufacturer Rockwell	_
	c: Identifying nos. PSJO-70 N/A N/A N/A N/A	_
	(mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) (year built)	
	d: Construction CodeASME_Draft_Code_for_Pumps & Valve_1968 Ed. 1970 Add. N/A2	
	ANSI B31.7 1969 Edigitio 1970 Add. (addenda) (Code Case(s)) (Code Class)	
6	Section XI	
٥.	(edition) (addenda) (Code Case(s))	_
7	Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A	
,.	(edition) (addenda) (Code Case	
8.	37/3	(#)I
U.	*ASME Draft Code for Pumps & Valves/ (Code) (edition) (eddenda) (Code Case)	
9.		(3))
10.		
11.		
_	(use of additional sheet(s) or sketch(es) is acceptable if properly identified)	
	(ase or securior as ansatta) or ancientary is acceptance if properly restrained)	
		_
12.	Remarks: Work Order #: 920418114	_
	Deficiency Report #: SMD 92-535	_
	**System Inservice Test Performed at NOP	_
		_
Γ		٦
1	CERTIFICATE OF COMPLIANCE	
1		1
	We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.	
	Certificate of Authorization no. to use the "NR" stamp expires 19 04	i
ļ		
1	Date 9-8 19,92 Signed PSESC Co. Nuclear Dopt. Schools Principal Engr.	
1	(repair organization) (authorized representative) (fitte)	
\vdash		ᅱ
	CERTIFICATE OF INSPECTION	
1	, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency	Ì
	ssued by the state or province of <u>New Jersey</u> and employed by <u>Arkwright Mutual Insurance Co</u>	_
	of $\underline{\mathbf{m}}$ have inspected the repair, modification or replacement describe in this report on $\underline{9-3}$, 1992 and state that to the	-
	best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the Nation	
	Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warrant expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employe	
	expressed of implied, concerning the repair, modification of replacement described in this 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.	۱ ا
	/) / · · · · · · · · · · · · · · · · ·	
	Date 9-8 1971 Signed James 2. Commissions NJ 373	_
1	(Authorized Inspector) (Natl.Bd.No.(Including endorsements)state or province and number)	- 1

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) [9] TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Public Service Electric &	Gas Co Nuclear De	ept. CJP #	S92-309
Foot of Buttonwood Road, Hancocks Bri	(name		organization's P. C. no job noetc.
FOOL OF BULLIAMOUR READ, HAIRCORS BES	(address,		
2. Owne: . Public Service Electric and Gas (
	(name:		
Foot of Buttonwood Road, Hancocks Bri	idge, NJ 08038		
	(address)		
-	elem Nuclear Generat:	ing Station C	uic #1
Foot of Buttonwood Road, Hancocks Br:	lage, NJ 08038		uclear Class II
4 System <u>Chemical Volume Control</u> 5 a. Component repaired, modified or replaced 1CV3 Valve			uctear crass ir
b: Name of manufacturer Copes Vilcan			
c: Identifying nos. 6910-95001-156-15 N/A	N/A	N/A	N/A
(mtr.'s serial no.) (Nat'i, Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code W E-Spec 676270 N/A	<u> </u>	N/A	II
ANSI B31.7 1969 Ed. 1970 Add undden	ida)	(Code Case(s))	(Code Class)
6. Section XI <u>1983</u>	Summer 83	_N/A	
(edition)	(addenda)	(Code (Cese (s))
7. Applicable edition of ASME Code Section XI under which repairs,	modifications, or replacements we	ere made: <u>1983</u>	<u>S83 N/A</u>
		(edition)	(addenda) (Code Case(s))
8 Applicable edition of Construction Code under which repairs, mod			
a a la sur a paper.	*W E-Spec. 676270/	(Code) (edition)	(addenda) (Code Case(s))
9. Design responsibilities PSF&G	ANSI B31.7 1969 Ed. • D pressure <u>NOP</u> psi		bor
		remp. Ny A -OC	iker
_	sketch(as) is acceptable if properly identifie		
		- 7	
12. Remarks: Work Order #: 920516096		ncy Report #:	SMD 92-556
Design Change Package #: N/A	Rev. N/A		
See attached pages for Descript		N/A	
*System Inservice Test Perform	ed at NOP/NOT OIR		
CERTIFI	ICATE OF COMPLIANCE		
We certify that the statements made in this report are correct and the			cribed above conforms to
Section XI of the ASME Code and the National Board rules as defin	ed in the publication NB-102, curi the "NR" stamp expires	rent edition.	·
36	the Idn starrib explies Oct	3, 7 '3-94-	•
Date 8/4 1992 Signed DEEC CO NOCIO	par Dept. Q.J.K	bert 1	incipal From
(repair orga	nization) (authori	zed representative)	(fitte)
CERTIF	CATE OF INSPECTION		·
I she wasteriand heldton a cital assessment to the form the second by William at the	and Board of Ballot and Brazers	Vaccal leasanters	Loorificate of com-states
I, the undersigned, holding a valid commission issued by The National issued by the state or province ofNew Jerseyand orand or	employed by Arkwr:	ight Mutual Ir	surance Co
of MA have inspected the repair, modification or replacen	nent describe in this report on	<u>5-27</u> , 199	and state that to the
best of my knowledge and belief, this repair, modification or replacer	ment has been made in accordance	e with Section XI of the	ASME Code and the National
Board rules as defined in the publication NB-102, current edition. E expressed or implied, concerning the repair, modification or replace	by signing this certificate, neither tement described in this report. Fi	itte inspector nor his ei urthermore, neither the	mpioyer makes any warranty, inspector nor his employer
shall be liable in any manner for any persenal injury or property da	mage or a loss of any kind arising	from or connected w	ith this inspection.
	1	Factory N	iutual System
Date 8-12 .1992 Signed famus 2. Com	Commissions		nents)state or province and number)
/ yautnonzed in	(No		ionajado o province are number

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	1. Work performed by Public Service Electric & Gas Co Nuclear Dept. CJP #S92-312
	(name) (repair organization's P. O. no. job. no.,etc.)
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	(address)
2	Owner Public Service Electric and Gas Co.
	(name)
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
_	(address) 3. Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1
٥	Name, address and identification of nuclear power plant <u>Salem Nuclear Generating Station Unit #1</u> Foot of Buttonwood Road, Hancocks Bridge, NJ 08038
	System Safety Injection Nuclear Class II
	i. a: Component repaired, modified or replaced <u>1SJE3 - Safety Injection Pump</u>
-	b: Name of manufacturer Pacific Pumps
	c: Identifying nos. 45496 N/A N/A N/A 1970
	(mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) (year built)
	d: Construction Code W E Spec 676428 N/A N/A 2
	ASME Draft Code for Pumps & Valves 1968 Ed. 1970 Add./ANSI 1983 Ed. 1970 Add./ANSI 1969 Ed. 1970 Add.
6	Section XI 1983 Summer 83 N/A
	(edition) (addenda) (Code Case(s))
7	Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A
	(edition) (addenda) (Code Came(s))
8	Applicable edition of Construction Code under which repairs, modifications, or replacements were made: * W E Spec 676428
	*ASME Draft Code for Pumps & Valves 1968 Ed. 1970 Add. (Code) (edition) (addenda) (Code Case(s))
9	Design responsibilities
10	
_11	I. Description of work Replaced mechanical seal.
	(use of additional sheet(s) or sketch(es) is acceptable if properly identified)
7	
10	Remarks: Work Order #: 910618083 Deficiency Report #: SMD 92-555
12	Design Change Package #: N/A Rev. N/A SMD 92-565
	See attached pages for Description of Replacement. N/A
	**System Inservice Test Performed at NOP.
Ī	· · · · · · · · · · · · · · · · · · ·
ı	CERTIFICATE OF COMPLIANCE
١	We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.
- 1	Contificate of Authorization as
1	
-	Date 9-10 19,92 Signed PSESC Co. Nuclear Dept. S. Mulleule' Principal Engr.
1	(repair organization) (authorized representative) (fillie)
ľ	
1	CERTIFICATE OF INSPECTION
-	I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency
	issued by the state or province ofNew Jersey and employed by Arkwright Mutual Insurance Co
ł	of MA have inspected the repair, modification or replacement describe in this report on 9-9 , 1992 and state that to the
	best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National
	Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this 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 Mitual System
	Date 9-15 ,1992 Signed 6 Commissions NJ 373 (Authorized Inspector) (Natl.Bd.No. (Including endorsements) state or province and number)
	A framework to the first the first that the first the first that the first t

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1 of 2

		' "	
1. Work performed by <u>Public Service Electric &</u>	Cas Co Nuc	_	S92-313
	(name)		tion's P.O. no., job. no.,etc.)
Foot of Buttonwood Road, Hancocks Br	<u>idge, NJ 08038</u>	3	
	(address)		
2. Owner <u>Public Service Electric and Gas</u>	<u> </u>		
	(name)		
Foot of Buttonwood Road, Hancocks Br	idge, NJ 0803	3	
	(address)		
3. Name, address and identification of nuclear power plantS	alem Nuclear G	enerating Station U	nit #1
Foot of Buttonwood Road, Hancocks Br	idge, NJ 0803	3	
4. System Fire Protection		N	tuclear Class II
5. a: Component repaired, modified or replaced 1FP148 Valv	e		
b: Name of manufacturerVelan			
c: Identifying nos. 0039 N/A	N/A	N/A	1973
(mfr's. serial no.) (Nat'l.Bd.No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code ASME III 1971 W	•	N/A	2
ANSI B31.7 1969 Ededition 970 Add. PS Species		(Code Case(s))	(Code Class)
6. Section XI	Summer 83	(0000 0000(0))	N/A
(edition)	(addenda)		(Code Case(s))
• • • • • • • • • • • • • • • • • • • •	•	t 1002	S83 N/A
7. Applicable edition of ASME Code Section XI under which repairs	, modifications, or replac		
		(edition)	(addenda) (Code Case(s))
8. Applicable edition of Construction Code under which repairs, mod			1970 N/A
*ANSI B31.7/ASM		W71 Add./ (edition)	(addenda) (Code Case(s))
9. Design responsibilities PSE&G PS Spec 72-504			
		ure 47.3 psi Code Cas	
11. Description of work <u>Installed new seat in va</u>	<u>lve by welding</u>	<u>, replaced disc valv</u>	e bolting
(use of a	dditional sheet(s) or sketch(es) is acceptable if properly identified)	
and flange bolting.		· · · · · · · · · · · · · · · · · · ·	
		 	
12. Remarks <u>Work Order #: 920510098</u>	<u>De</u> :	<u>ficiency Report #: S</u>	
Design Change Package #: N/A	Rev. N/		MD 92-559
See attached pages for Descrip	tion of Replace	ement. Hydrostatic	test not performed
**LIRT Performed Sat.			isolable.
CERTI	FICATE OF COMPLIA	NCE	
We certify that the statements made in this report are correct and the	renair modification or re	enlacement of the items described	d above conforms to Section XI
of the ASME Code and the National Board rules as defined in the put			above comorms to occurr X
		. 3, .19 94 .	
Certificate of Authorization no	amp expiles	. J, , 15 <u>J4</u> .	-
PSE&G CoNucl	ear Dept.	011	Principal Engr
Date 10-5 19,92 . Signed		Mululu	Asia - N
(repair organi	zation)	(authorized representative)	(title)
CERT	IFICATE OF INSPECT	ION	
I, the undersigned, holding a valid commission issued by The Nationa			
the state or province of <u>New Jersey</u> and employed by	<u>Arkwrigh</u>	t Mutual Insurance C	
of MA have inspected the repair, modification or replace	ement described in this r	eport on6 - / C, 19_	92 and state that to the
best of my knowledge and belief, this repair, modification or replacement	ent has been made in a	ccordance with Section XI of the	ASME Code and the National
Board rules as defined in the publication NB-102, current edition. By			
expressed or implied, concerning the repair, modification or replacem			•
liable in any manner for any personal injury or property damage or a	· · · · · · · · · · · · · · · · · · ·		, -
			Autual System
ate 10-13, 1992. Signed James E. Cas	h / c	ommissions NT773	-
(Inspector)			ments)state or province and numbe
/ ("special)		transference de la companya de la co	

FORM NR-1 ATTASHMENT

Code Job Package No.: <u>S92-313</u>

•	Work per	riormed	ry:		ervice Ele Buttonwood	ectric & G				
2.	Owner:				ervice Ele				je, N	08038
_					Buttonwood				ge, Ni	08038
3.	Location	n:			clear Gene Buttonwood				70 M	T 00020
4.	System:	Fire	Protec		Buttonwood			Class		
	- 4									
====		======	=====				=====	=======	=====	
	of Compore of Manu			ent: <u>Disc</u>						
					N/A	N/A		No		
Seri	al No.	Nat'l.	Bd.	Jurist No	o. Other	Year	Built	ASME	Code	Stamp'd.?
Rep]	lacement	Const.	Code:	ASME II	<u> 1971</u> Ed	lition <u>W7</u>	1 Ad	denda,	Code	Class II
Code	Cases:	N/A_		· ——	· 					
TD C	of Penlac		Bonn	et Studs						
	of Manu									 -
N/A		N/A		N/A	N/A	N/A		No		
Seri	al No.	Nat'l.	Bd.	Jurist No	Other	Year	Built	ASME	Code	Stamp'd.?
Rep1	acement	Const.	Code:	ASME III	<u> 1971 </u>	_ Edition	<u>W71</u>	Addenda	a, Cod	le Class <u>I</u>
Code	Cases:	N/A		. —— -						
====							· ======	======		=====
ID c	of Compor	nent Rer	olacem	ent: Bonr	net Nuts					
	of Manu									
		AT / B	_	37 / 3	37./3	NT / N		No		
N/A		N/A		N/A	N/A_	<u> N/A</u>		140		
Seri	al No.	Nat'l.	Bd.	Jurist No	Other	Year	Built	ASME	Code	Stamp'd.?
Seri Repl	al No.	Const.	Bd.	Jurist No	Other	Year	Built L Ad	ASME	Code Code	Stamp'd.? Class <u>II</u>
Seri Repl	al No.	Const.	Bd.	Jurist No	Other	Year	Built lAd	ASME	Code Code	Stamp'd.? Class <u>II</u>
Seri Repl Code	al No. acement Cases:_ of Replace	Const. N/A cement:	Bd. Code:	Jurist No ASME III	Other 1971 Ed	Year 1	Built lAd	ASME	Code Code	Stamp'd.? Class <u>II</u>
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Seri Repl Code ID c	al No. acement Cases: of Replace of Manu	Const. N/A cement: lfacture	Bd. Code: _Flan	Jurist No ASME III ge Studs llied Nut	Other	Year lation W7	1 Ad	ASME denda,	Code	Class <u>II</u>
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FORM NR-1 REPORT OF REPAIR ☑ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☐ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Public Service Electric & G	as Co Nuclear D	ept. CJP #	S92 - 316
	(name)	(reper (organization's P. O. no. job. no.,etc.)
Foot of Buttonwood Road, Hancocks Bride	ge, NJ 08038		
	(address)		
2. Owner <u>Public Service Electric and Gas Co</u>	•		
	(name)		
Foot of Buttonwood Road, Hancocks Bride	ge, NJ 08038		
·	(address)		• • • • • •
· · · · · · · · · · · · · · · · · · ·	em Nuclear Generat	ing Station U	nit #1
Foot of Buttonwood Road, Hancocks Brid	ge, NJ 08038		velore Class II
4. System Chemical Volume Control		N	uclear Class II
5. a: Component repaired, modified or replaced 1C-CVCG-232 P	lpe Guide		
b: Name of manufacturer PSE&G			1072
c: Identifying nos. N/A N/A	N/A	N/A	1973
(mfr.'s serial no.) (Nat'l, Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code PS Support Spec 69-6445		N/A	2
ANSI B31.7 1969 Edidio 1970 Add. (addenda)		(Code Case(S))	(Code Class)
6. Section XI	Summer 83	_N/A	
(edition)	(addenda)	(Code C	, ,,
7. Applicable edition of ASME Code Section XI under which repairs, mo	odifications, or replacements w		<u>\$83</u> <u>N/A</u>
Applicable edition of Construction Code under which repairs, modific		(edition)	(addenda) (Code Case(s))
·	•		
-	B31.7 1969 Ed. 197	O WINDIPOSE) (equion)	(addenda) (Code Case(s))
9. Design responsibilities PSEGG 10. Tests conducted: hydrostatic pneumatic design pressure	pressurepsi	Trames N/A **	ther
11. Description of work <u>Performed weld repair to p</u>			
	Ach (es) is acceptable if properly identifie		itae.
(USE OF EDUNION ED STREET) OF EDUNION ED STREET)	ifeel is sociations in broberth materials	-	
			
12. Remarks: Work Order #: 920516094			
Deficiency Report #: SMD 92-576			
**VT-3 Preservice Exam performed	. No pressure tes	t required.	
			
CERTIFICA	ITE OF COMPLIANCE		,
No and the second of the	ranas madification or conton		wihad abawa sasfarma ta
We certify that the statements made in this report are correct and the Section XI of the ASME Code and the National Board rules as defined			sided above conforms to
	e "NR" stamp expires		. i
36	0 1	19:1-1	
Date 6/30 19,92 Signed PSE&G Co. Nuclea	r Dept. Liv	Koberla pr	incipal Engr.
(repair organize	tion) = (autho	rized representative)	(IRIe)
			
CERTIFICA	ATE OF INSPECTION		
1, the undersigned, holding a valid commission issued by The Nationa			
issued by the state or province of <u>New Jersey</u> and em of <u>MA</u> have inspected the repair, modification or replacement		ight Mutual Ir	2 and state that to the
best of my knowledge and belief, this repair, modification or replacement			
Board rules as defined in the publication NB-102, current edition. By s	signing this certificate, neither	the Inspector nor his er	nployer makes any warranty,
expressed or implied, concerning the repair, modification or replacement			
shall be liable in any manner for any personal injury or property dama	ige of a loss of any king arisin		futual System
Date Luly 1 ,1997 Signed Cathullon	Commissions	1100	J 1028
(Authorized Inspe			nents)state or province and number)
1 1/	,		

FORM NR-1 REPORT OF REPAIR M MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Wo	rk performed by	Public Ser	vice Elect	ric & Gas	co	Nuclear	Dept.	CIP#	S92-317	
					(name)			(repair	organization's P. O	, no. job. no.,etc.)
) —	Foot of But	torwood Ro	ad, Hancoo			8038				
2. Owne	Public	Service Ele	ectric and		iddress)					
2. O#/10	·				name)					
	Foot of But	tonwood Ro	ad, Hancoo	ks Bridge	, NJ O	8038				
	-			•	dress)	_				
3. Nar	ne, address and ide						ating Sta	tion U	nit #1	
4. Syste	Foot of But	/ Inspection		KS Bridge	, NU U	8038			uclear Cl	lage TT
•	mponent repaired,			12 Safety	Inject	ion Pum			wien C	1035 11
	ame of manufactur			III DULLOS	21,7000	, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	r			
		1/A	N/A		N	/A	N	/A	197	70
	(m	nfr.'s serial no.)	(Nat'l. Bd. No.)	•.	(juriedictio	nai no.)	(6	other)	(ye	er built)
d: C	onstruction Code	ANSI B31.	<u>7_19</u> 69	1970	<u>_</u> _N	/A			2	
		[B31.1 and 666	7 Ed.	(addenda)		,	(Code Case)		(Code	Class)
6. Sec	ion XI	1983			ummer 8	3	_N/A			
7 4	lionblo odkio od 46	(edition)	. VI	•	addenda)		d	(Code 0		37 /3
7. App	licable edition of AS	ME Code Section	XI unger which	repairs, modifi	ications, or i	replacements	s were made:		<u>\$83</u>	<u>N/A</u>
8. App	licable edition of Co	opetruction Code	under which rer	aire modification	one or renis	everante wa	re made: #	(edition) 1969	(addenda) 1970	(Code Case(s)) N/A
0. App	modelic edition of or	31/34/404/01/ 0040		NSI B31.7	-				(addenda)	(Code Case(s))
9. Des	ign responsibilities	PSE&G	•	-w, -w	/.I.O.I	~	07 200 (20)	, (00	((2000 2000),
10. Tes	ts conducted: hydr	ostatic 🛘 pneur	natic desig	n pressure 🛘	pressure	NOP P	si Temp.	N/A *		
11. Des	cription of work_	Performed	weld repa	ir on fla	nge fac	e		<u> </u>		<u> </u>
			(use of additions	d sheet(s) or sketch(es) is acceptabl	e if property ider	ntified)			
										
	T.T. and an article in the control of the control o	01 # - 0	10610000			_ 				
12. Rer		Order #: 9		02-560						
		ciency Repor em Inservi			+ NOD					
	-3750	En TiperAT	CE TEST FE	errormed a	C NOF.					
<u> </u>			Ü							
}				CERTIFICATE	OF COMPL	JANCE				
We ce	rtify that the staten	nents made in this	s renort are corr	ect and the rec	air modifica	ation or reols	scement of the	items desc	rihed above o	onforms to
	n XI of the ASME C		•	•	-	•				
Certifi	cate of Authorizatio	n no36		to use the *!	NR" stamp e	expires -oct	3 -	-, 19 94 -	i	
Date	G 10	. 2 Signed		_		111		_		
Date	19,	72 Signed	-PSE&C-Co.	repair organization	Dept.	AAA.	thorized represent	etive)	incipal I	mgr.
<u> </u>					9	ten et en ek eks		, 		
				CEDTIEICATE	OE INCOE	TION .				
				CERTIFICATE	. OF HYSEC					
	undersigned, holdir									
	by the state or pro	ovince of pected the repair,	New Jersey						surance (
	f my knowledge an									
Board	rules as defined in	the publication N	IB-102, current e	edition. By sign	ing this cert	tificate, neith	er the inspect	or nor his er	nployer makes	any warranty,
	ssed or implied, con se liable in any mar									
31101111				/ A	U a 1088 01	arry Arriu arr			in this inspect iutual Sys	
Date	<u>V/16</u>	99 \mathcal{V} Signed \subseteq	times 2	·w		Commissio	ons_ <i>N</i> 33	73		
1		/	(Authorized Inspector)		(Natl.Bd.No.(Incl.	ding endorsem	ents)state or provin	ce and number)

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

_1	Work performed by Public Service Electric & Gas Co Nuclear Dept. CJP	#S92-318 Rev. 1
	(name) (repi	air organization's P. O. no. job. no.,etc.)
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
	2. Owner Public Service Electric and Gas Co.	
2.		
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
	(address)	
3.	3. Name address and identification of nuclear power plant Salem Nuclear Generating Station	Unit #1
	Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
	4 System Residual Heat Removal	Nuclear Class II
5.	5. a: Component repaired, modified or replaced 1RHE3 - Heat Exchanger	
	b: Name of manufacturer Engineers and Fabrications Inc.	1060
	c: Identifying nos. S-15860-C N/A N/A N/A	1969
	(mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) de Construction Code $W \to Spec G676454$ Rev. 1 1967 N/A	(year built) 2
	NOT DOL 7 1000 PJ 1070 NJJ	(Code Class)
6	ANSI B31. / 1969 Edid#iod\$970 AQQ. (addenda) (Code Case(S)) 6 Section XI	(code class)
٥		e Case(s))
7.	7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983	S83 N/A
	(edition)	(addenda) (Code Case(si))
8.	8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made:	
	*W E Spec. G676454 Rev. 1 1967/ANSI B31.7 1969 Ed. 1970 Addicade) (edition	on) (addenda) (Code Case(s))
9.	9. Design responsibilities PSE&G	
10.	10. Tests conducted: hydrostatic [] pneumatic [] design pressure [] pressure NOP psi Temp. N/A *:	
11.	11. Description of work Replace heat exchanger bolting with upgraded bolting mat	erial.
	(use of additional sheet(s) or sketch(es) is acceptable if property identified)	
		
12	12. Remarks: Work Order #: 920514193 Deficiency Report #	: SMD 92-595
	Design Change Package #: 1SO-00303 Pkg. 1 Rev. N/A	
	See attached pages for Description of Replacement. N/A	
	**System Inservice Test Performed at NOP.	
T		
1	CERTIFICATE OF COMPLIANCE	
1	We certify that the statements made in this report are correct and the repair, modification or replacement of the items de	escribed above conforms to
- 1	Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.	
1	Certificate of Authorization no. 36 to use the "NR" stamp expires oct. 3, 19 9	4
	Date 7/4 1992 Signed Detect on - Nivel car Don't G. J. Refer &	Principal Engr.
	(repair organization) (authorized representative)	(Rie)
L		
	CERTIFICATE OF INSPECTION	
1		
	I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, a	nd certificate of competency
- 1	issued by the state or province of <u>New Jersey</u> and employed by <u>Arkwright Mutual</u> of <u>MA</u> have inspected the repair, modification or replacement describe in this report on	992 and state that to the
	best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the	
	Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his	
	expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither t	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	the Inspector nor his employer with this inspection.
1	shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected	the Inspector nor his employer
1	shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected Date 7-16, 1990 Signed June 12. Commissions 1373	the Inspector nor his employer with this inspection.

Work performed by Public Service Electric & Ga	s Co Nuclear	Dept. CP #S9	91-325
	(name)	_	's P.O. no., 100. no., etc.)
Foot of Buttonwood Road, Hancocks Bridge			
	(address)		
2 Owner <u>Public Service Electric and Gas Co.</u>			
Fact of Puttowned Boad Hannocke Bridge	(name)		
Foot of Buttonwood Road, Hancocks Bridg	(address)		
3. Name, address and identification of nuclear power plantSale	, ,	nting Station Uni	it #1
Foot of Buttonwood Road, Hancocks Bridg			
4. System Reactor Coolant	· · · · · · · · · · · · · · · · · · ·	Nuc.	clear Class I
5. a: Component repaired, modified or replaced 1PS28 Valve		·	
b: Name of manufacturer <u>Velan</u>	N/A	N/A	M/A
c: Identifying nos. 176 N/A (mfr/s, serial no.) (Nath Bc.Nic.)	(jurisdictional no.)	N/A(other)	N/A (year built)
d: Construction Code ASME Draft Code for Pumps &	-	· ·	Jea builty
ANSI B31.7 1969 Ededition 70 Add. (addenda)		(Code Case(s))	(Code Class)
	ummer 83		N/A
(edition)	(addenda)		(Code Case(s))
7. Applicable edition of ASME Code Section XI under which repairs, mod	ifications, or replacements		583 N/A
2. A. Pichia adia as of Operation Code made which receips modified	erra erralasamanta war	(editor 5 made: +10 65 1	(addenda: (Code Case(s))
8. Applicable edizion of Construction Code under which repairs, modificate *ANSI B31.7/ASM			(addenda) (Code Case(s))
9. Design responsibilities PSE&G for Pumps & Va		•	(1000),000
10. Tests conducted hydrostatic pneumatic design pres			s) N/A
11. Description of work Replaced valve bonnet S/N S	_	•	
. (use of addition	nal sheet(s) or sketch(es) is acc	ceptable if properly inerafied	
			
12. Remarks Work Order #* 900102112	Deficie	ency Report #: SMI	N 91_428
12. Remarks Work Order #: 900102112 Design Change Package #: N/A		SMI	
See attached pages for Description			<u> </u>
**System Inservice Test Performed	@ NOP/NOT Temp	N/A	
CERTIFICA	TE OF COMPLIANCE	·	
	ر برسو		
We certify that the statements made in this report are correct and the repa			bove conforms to Section XI
of the ASME Code and the National Board rules as defined in the publicate Certificate of Authorization no. 36 to use the "NR" stamp			-
·		_, 18	- ! -! ? Pares
Date 8-28 19, 92 Signed PSE&G CoNuclear	Dept.	I habita	Principal Engr
(repair organization	1)	(authorized representative	(title)
		_	
CERTIFICA	ATE OF INSPECTION		
1. When the state and the Late of the Late of the State of the State of the State of Co.	Dallar and Drossura	V-seel leenendam, van nedië	· · · · · · · · · · · · · · · · · · ·
I, the undersigned holding a valid commission issued by The National Boathe state or province of New Jersey and employed by		vesseiinspeciors and centil tual Insurance Co	cate of competency issued by
of MA have inspected the repair, modification or replacement		<u> </u>	V and state that to the
best of my knowledge and belief, this repair, modification or replacement h	•	•	
Board rules as defined in the publication NB-102, current edition. By signi			
expressed or implied, concerning the repair, modification or replacement of			
ble in any manner for any personal injury or property damage or a loss of	of any kind arising from or o		
Date 878, 1992 Signed James E. Carl	/ 00	ノイコニュー	tual System
Date 8-18, 1911. Signed Jones 2. Cash	Commiss		ents)state or province and number)
/ (:rispector)	, (Man pontoding arcor seme	misjstate of province and number)

FORM NR-1 REPORT OF REPAIR ☐ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☑ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Public Service Electric &	Gas Co Nuclear I	Dept CJP #	S92 - 329
Book of Buttow, and Book Hancocks Bui	(name) Cicie. NJ 08038	(Teper c	organization's P. O. no. job no.,etc.,
Foot of Buttonwood Road, Hancocks Bri			
2. Owner Public Service Electric and Gas C	(address)		
	(name)		
Foot of Buttonwood Road, Hancocks Bri	dge, NJ 08038		
-	(address)		- 11 Ha
	lem Nuclear General	ting Station (WIC AT
Foot of Buttonwood Road, Hancocks Bri 4. System Reactor Coolant	age, NU 08038		Muclear Class I
System Reactor Coolant a: Component repaired, modified or replaced 1PR2-Valve		_	idcieat class i
b: Name of manufacturer Copes-Vulcan			
c: Identifying nos. 6910-95001-164-1 N/A	N/A	N/A	1968
(mfr.'s serial no.) (Nat'i, Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code W E-Spec G676270 1966		N/A	1
ANSI B31.7 1969 Edwin1970 Add. (addended	· · · · · · · · · · · · · · · · · · ·	(Code Case(s))	(Code Class)
6. Section XI	Summer 83	<u>N/A</u>	
(edition)	(addends)	(Code C	* **
7. Applicable edition of ASME Code Section XI under which repairs, m	odifications, or replacements w	vere made: <u>1983</u>	
		(edition)	(addenda) (Code Case(s))
Applicable edition of Construction Code under which repairs, modified			
	.7/ <u>W</u> E-Spec G676270	0-196(Code) (edition)	(addenda) (Code Case(s))
9. Design responsibilities <u>PSE&G</u> 10. Tests conducted: hydrostatic D pneumatic D design pressure	I pressure NOP psi	Thomas N/A short	her
 Tests conducted: hydrostatic up neumatic up design pressure Description of work <u>Replaced cage assembly an</u> 		_ ·	7 ICT
<u>-</u>	setch(es) is acceptable if properly identifi		
	, canal	,	
12. Remarks: Work Order #: 920207007		ency Report #:	SMD 92-614
Design Change Package #: N/A	Rev. N/A	 	
See attached pages for Descript		. N/A	
*System Inservice Test Performe	d at NOP/NoT		
CERMEN	ATE OF COMPLIANCE		
CENTIFIC	ATE OF COMPENSACE		,
We certify that the statements made in this report are correct and the			ribed above conforms to
Section XI of the ASME Code and the National Board rules as defined	•	. =	
36	he "NR" stamp expires	·/ // ·/ ·/ ·/ ·/ ·/ ·/ ·/ ·/ ·/ ·/ ·/ ·/ ·	
Date 8/4 19,92 Signed PSEC CO -Nucle	ar Dont Q.J.	Koberto pr	incipal From
(repair organia	ation) (autho	rized representative)	(I)E(e)
	· · · · · · · · · · · · · · · · · · ·		
CERTIFIC	CATE OF INSPECTION		
I, the undersigned, holding a valid commission issued by The Nation issued by the state or province of New Jersey and er		Vessel Inspectors, and right Mutual Ir	certificate of competency
of MA have inspected the repair, modification or replacement			2 and state that to the
best of my knowledge and belief, this repair, modification or replacement	ent has been made in accordan	ce with Section XI of the	ASME Code and the National
Board rules as defined in the publication NB-102, current edition. By			
expressed or implied, concerning the repair, modification or replacen shall be liable in any manner for any personal injury or property dam			
		Factory M	iutual System
Date 8-6 1992 Signed Comes E. C	Commission:		
/ (Authorized Ins)	pector) (h	tatt.Bd.No.(including endorsem	ents)state or province and number)

FORM NR-1 REPORT OF REPAIR D MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Pub	lic Service Elec	tric & Gas Co	Nuclear	Dept. CJP:	#S92 - 333
		(name)			r organization's P. C. no. job. no.,etc.;
Foot of Button	wood Road, Hanco	cks Bridge, N	J 08038		
Dahlis Com	Talan 1930 antonia an	(address)		
2. Owner Public Ser	vice Electric an	a Gas Co.			
Foot of Button	wood Road, Hanco	(name) Che Bridee M	J 08038		•
FOOL OF BUCCOSS	wood nodd, Hailoo		0 00030		
3. Name, address and identifica	ation of nuclear power plans	(address) Salem Nu	clear Gener	rating Station	Unit #1
	wood Road, Hanco				
4. System Containme			<u></u>		Nuclear Class II
5 a: Component repaired, modif		spool between	valves 110	S6 and 11CS44.	
b: Name of manufacturer	Kellogg				
ć: Identifying nos. N/A	N/A		N/A	N/A	N/A
(mfr.'s sec	riai no.) (Nat'l. Bd. No.)	(Ju	urisdictional no.)	(other)	(year built)
d: Construction Code <u>AN</u>		1970	<u>N/A</u>		2
ANSI B31.1 1967		(addenda)		(Code Case(s))	(Code Class)
6 Section XI	1983	Summ	er 83	N/A	
	(edition)	(addend	·		Case(s))
7. Applicable edition of ASME C	lode Section XI under which	ch repairs, modificatio	ns, or replacemen		S83 N/A
9. Applicable edition of Constr.	etion Codo codo subish se	anima madifications d		(edition) ere made: * 196	(addenda) (Code Case(s)) 9 1970
8 Applicable edition of Constru	ction code alide: willcli te			1967(Code) (edition	
9. Design responsibilities PS	FAG	"MOI DOI	. I/MOI DI	1.1 1507(0000) (00110)	i) (addanda; (code case(s);
10. Tests conducted: hydrostatic		on pressure (I pres	SSUE 290	psi Temp. N/A (am	bent als)
11. Description of work Pe		- :		• •	
	<u>-</u>	al sheet(s) or sketch(es) is a	=		=
12. Remarks. Work Ord	er #: 920603165				
Deficien	cy Report #: SMD	92-630			
					
Ì		CERTIFICATE OF C	SOMPLIANCE		
1		OBTINION C	JOIN (2410)		
We certify that the statements	•	•	•		scribed above conforms to
Section XI of the ASME Code a		•			
Certificate of Authorization no.	36	to use the "NR" s	carrib expires —Oc	st.,/3,, 1994	- ·
Date 7/4 19.92	Signed PSEC Co	-Nuclear Den	<u> </u>	Koberto p	rincipal Engr.
,	10040 00	(repair organization)	(=	uthorized representative)	(little)
					
		CERTIFICATE OF	INSPECTION		
I, the undersigned, holding a v	alid commission issued by	The National Board	of Boiler and Pres	sure Vessel Inspectors, an cwright Mutual I	d certificate of competency
issued by the state or province of MA have inspected	d the repair, modification of	Y and employed by replacement describ			92 and state that to the
best of my knowledge and belie					
Board rules as defined in the p	er, ens repair, mounication (o. 10p.2001.10			e ASME Code and the National
expressed or implied, concerning	publication NB-102, current	edition. By signing the	his certificate, neit	ther the inspector nor his e	employer makes any warranty,
	publication NB-102, current ing the repair, modification	edition. By signing to or replacement desc	his certificate, neit ribed in this repor	ther the inspector nor his e ct. Furthermore, neither th	employer makes any warranty, se Inspector nor his employer
shall be liable in any manner f	publication NB-102, current ing the repair, modification or any personal injury or pr	edition. By signing to or replacement desc	his certificate, neit ribed in this repor	ther the inspector nor his e rt. Furthermore, neither th rising from or connected v	employer makes any warranty, se Inspector nor his employer
shall be liable in any manner f	publication NB-102, current ing the repair, modification	edition. By signing to or replacement desc	his certificate, neit ribed in this repor	ther the Inspector nor his etc. Furthermore, neither the rising from or connected the Factory	employer makes any warranty, se Inspector nor his employer with this inspection.
shall be liable in any manner f	publication NB-102, current ing the repair, modification for any personal injury or processing the signed that	edition. By signing to or replacement desc	his certificate, neit ribed in this repor loss of any kind a	ther the Inspector nor his etc. Furthermore, neither the rising from or connected the Factory sions NBTRGE A	employer makes any warranty, se Inspector nor his employer with this inspection.

FORM NR-1 REPORT OF REPAIR M MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1 of 1

1. Work performed by Public Service Flectric & Gas Co Nuclear Dept. CTP #S92-335 (name) (repair organization's P.O. no., jo	
(increase organization of the contract of the	b. no.,etc.)
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 (address)	
2. Owner Public Service Electric and Gas Co.	
(name)	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	
(address)	
3. Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 4. SystemChemical Volume Control	lass II
5. a: Component repaired, modified or replaced Pipe Spool 1-CVC-15	
b: Name of manufacturerKelloog	
, , , , , , , , , , , , , , , , , , , ,	76
	(year built)
d: Construction Code <u>ANSI B31 7 1969 1970 N/A II</u> ANSI B31 1 1967 (edition) (addenda) (Code Case(s)) (Code	
ANSI B31.1 1967 (edition) (addenda) (Code Case(s)) (Code 6. Section XI	Class)
(edition) (addenda) (Code Cat	
7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83	N/A
(edition) (addenda)	(Code Case(s))
8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: *1969 1970	<u>N/A</u>
*ANSI B31.7/ANSI B31.1 1967 (edition) (addenda)	(Code Case(s))
9. Design responsibilities <u>PSESG</u>	
10. Tests conducted: hydrostatic pneumatic design pressure ** pressure 16 psi Code Case(s) N/A	
11. Description of work Repaired welds on elbow on spool 1CVC-15 that was removed for (use of additional sheet(s) or sketch(es) is acceptable if properly identified)	
maintenance convenience.	
maintenance convenience:	
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A	
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A	
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A	
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A	
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4	
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A	
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12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4 CERTIFICATE OF COMPLIANCE	ms to Section XI
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conform	ms to Section XI
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conform of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	ms to Section XI
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conform of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no. 36 to use the "NR" stamp expires Oct. 3, 19 94 Date 10 - 19 92. Signed PSE&G CoNuclear Dept. Prince	cipal Engr
12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conform of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no	- ·
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12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conform of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no. 36 to use the "NR" stamp expires Oct. 3, .19 94 Date /O - / 19, 9.2. Signed PSE&G CoNuclear Dept. Liberally (repair organization) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of committee the state or province of New Jersey and employed by Arkwright Mutual Insurance Company of the National Board of Boiler and Pressure Vessel Inspectors, and certificate of committee state or province of New Jersey and employed by Arkwright Mutual Insurance Company of New Jersey and employed by Arkwright Mutual Insurance Company of New Jersey and employed by Arkwright Mutual Insurance Company of New Jersey and employed by Arkwright Mutual Insurance Company of New Jersey and employed by Arkwright Mutual Insurance Company of New Jersey and employed by New Jersey New Jersey New Jersey N/A	cipal Engr (title)
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12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A Rev. N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conform of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no. 36 to use the "NR" stamp expires Oct. 3, 19 94 Date /O - / 19, 92. Signed PSE&G CoNuclear Dept. Print (repair organization) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of committee the state or province of New Jersey and employed by Arkwright Mutual Insurance Company Arkwright Mutual Insurance Company Arkwright Mutual Insurance Company Arkwright Mutual Insurance Company	(title) petency issued by tate that to the od the National warranty,
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12. Remarks: Work Order #: 910222067/920828172 Deficiency Report #: N/A Design Change Package #: N/A See attached pages for Description of Replacement. N/A **System Inservice Test Performed @ NOP Temp: 87.4 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conform of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. Certificate of Authorization no. 36 to use the "NR" stamp expires Oct. 3, 19 94 Date /O - / 19, 92. Signed PSE&G Co. Nuclear Dept. Print (repair organization) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of committee state or province of New Jersey and employed by Arkwright Mutual Insurance Committee of Make inspected the repair, modification or replacement described in this report on 97% and should be stolength in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer makes any expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer makes any expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer makes any expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer makes any expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer makes any expressed or implied, concerning the repair, modification or replacement described in this report. F	(title) petency issued by tate that to the dothe National warranty, employer shall be

FORM NR-1 REPORT OF REPAIR [3] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) [] TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work performed by Public Service Electri	ic & Gas Co Nuclear Dept.	. CUP #8	5 92 – 339
Foot of Buttonwood Road, Hancocks	s Bridge, NJ 08038	(saben ou	genization's P. O. no. job no.,etc.:
1000 01 10000.11000 10001 12020000	(address)		·
2. Owner Public Service Electric and C	· ·		
Foot of Buttonwood Road, Hancocks	s Bridge, NJ 08038	·	
	(address)		• • • • •
Name, address and identification of nuclear power plant	Salem Nuclear Generating	Station Ur	nit #1
Foot of Buttonwood Road, Hancocks	s Bridge, NJ 08038		
4. System <u>Safety Injection</u>		<u>M</u>	clear Class II
5. a: Component repaired, modified or replaced <u>Valve 14</u>	ISJ54		
b: Name of manufacturer Velan			1065
c: Identifying nos. N/A N/A	N/A	N/A	1967
(mtr.'s serial no.) (Nat'l. Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code W E Spec-G-676258 N	<u>/A N/A </u>		N/A
(edition)	•	Case(s))	(Code Class)
5. Section XI	Summer 83	N/A	
(edition)	(addenda)	(Code Ca	
 Applicable edition of ASME Code Section XI under which rej 	pairs, modifications, or replacements were ma	ade: <u>1983 </u>	S83 N/A
			(addenda) (Code Case(s))
Applicable edition of Construction Code under which repairs		* N/A	<u>N/A </u>
	*Westinghouse E Spec.	(Code) (edition)	(addenda) (Code Case(s))
B. Design responsibilities <u>PSE&G</u>	G-676258		
	ressure II pressure N/A psi Ter	- '	
 Description of work Weld 7/8" fillet weld 	in lieu of existing thread	<u>is on yoke-t</u>	onnet
	et(s) or sketch(es) is acceptable if properly identified)		
joint.			
			
Z. Remarks: Work Order #: 911126020			
Deficiency Report #: SMD 92			
**System Inservice Test @ 1	IOP/NOT		
a	ERTIFICATE OF COMPLIANCE		
We serie, that the statements made in this report are serrent	and the ranger modification or raplacement	of the items descri	had above conforms to
We certify that the statements made in this report are correct Section XI of the ASME Code and the National Board rules as			ned above collinilis to
Certificate of Authorization no.		. 19	
	177	-	
Date <u>\$15</u> 19.92 Signed PSESC Co	Niclear Dept. U.V. Mobe	Kh Pr	incipal Engr.
(гер	air organization) (authorized rep	resentative)	(Alle)
		7 T N N O D D	·
C	ERTIFICATE OF INSPECTION		
I, the undersigned, holding a valid commission issued by The		Inspectors, and c	certificate of competency
		t Mutual Ins	
of MA. have inspected the repair, modification or rep best of my knowledge and belief, this repair, modification or rep		Section XI of the A	
Board rules as defined in the publication NB-102, current editi			
expressed or implied, concerning the repair, modification or re	eplacement described in this report. Further	more, neither the l	nspector nor his employer
shall be liable in any manner for any personal injury or proper		or connected with	this inspection.
8-6 192 11	-1- Camping #1"	Factory M	itual System
Date 7-6 ,1991 Signed Jones 2.	oxized Inspector) Commissions (Natl.Bd.Net	o (Including andorses)	nta)state or province and number)
/ Autro	urran wishamon) (uguipgiug	women and and an expense of	irelarde or brossing mid unuiped

FORM NR-1 REPORT OF REPAIR [] MODIFICATION [] OR INSTALLATION OF REPLACEMENT(S) OF NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Public Service Electric &	Gas Co Nuclear	Dept. CJP #	S92-340
	(name	(repail	organization's P. C. nc. job. noetc
Foot of Buttonwood Road, Hancocks Bri	.dge, NJ 08038		
and Carrier Floring and Car ((address	•	
2 Owner Public Service Electric and Gas C			
Foot of Buttonwood Road, Hancocks Bri	.dge, NU 08038		•
1	(address)		
3 Name address and identification of nuclear power plantSa	lem Nuclear Genera	ating Station U	nit #1
Foot of Buttonwood Road, Hancocks Bri			
4 System Reactor Coolant		N	uclear Class I
5 a: Component repaired, modified or replaced <u>IPR6 Valve</u>			
b: Name of manufacturer Velan Valve Corp.			
c Identifying nos. 6381782 N/A	N/A	N/A	1967
(mh:/s serial no.) (Nat'i. Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code W E Spec. 676258 Rev. 1		<u> </u>	1
(edition) (adden	7	(Code Case(s))	(Code Class)
6. Section XI	Summer 83	<u>N/A</u>	
(edition)	(addenda)	(Code 0	
 Applicable edition of ASME Code Section XI under which repairs, 	nodifications, or replacement		S83 N/A
8. Applicable edition of Construction Code under which repairs, mod	ifications or raplacements	(edition)	(addenda) (Code Case(s)) N/A
• •	Spec 676258 Rev.	,	
9. Design responsibilities PSE&G	Spec 0/0236 Rev.	1 (68) (Code; (edition)	(addenda) (Code Case(s))
10. Tests conducted: hydrostatic [] pneumatic [] design pressure	оп pressure NOP	psi Temp. N/A **O	ther
11. Description of work Replaced stem and wedge a		• • • • • • • • • • • • • • • • • • •	
	sketch(es) is acceptable if property ide	=	
1200			
12. Remarks: Work Order #: 920423108	Defic	iency Report #:	SMD 92-649
Design Change Package #: N/A	Rev. N/A		
See attached pages for Descript	ion of Replacemen	t. N/A	· · · · · · · · · · · · · · · · · · ·
** System Inservice Performed a	it NOP/NET alr		
ormo	CATE OF COMPUNION		
CERTIFI	CATE OF COMPLIANCE		
We certify that the statements made in this report are correct and the	ne repair, modification or repl	acement of the items desc	cribed above conforms to
Section XI of the ASME Code and the National Board rules as define	ed in the publication NB-102,		
Certificate of Authorization no. to use	the "NR" stamp expires	t-3. 4 19 94-	•
Date 8/5 19,92 Signed DSRC Co - No. 3	Q.J.	Roberto	inginal Dama
(repair organ	hization) (a)	uthorized representative)	(itte)
	ويندا بسند مستداستند المستداد	مارسان المناسل مانارسان	
ACCOUNT.	CATE OF INICOCOTION		
CENTE	ICATE OF INSPECTION	-	
I, the undersigned, holding a valid commission issued by The Natio	nal Board of Boiler and Press	sure Vessel Inspectors, and	certificate of competency
issued by the state or province of <u>New Jersey</u> and a		wright Mutual In	
of <u>MA</u> have inspected the repair, modification or replacem best of my knowledge and belief, this repair, modification or replacem			ASME Code and the National
Board rules as defined in the publication NB-102, current edition. B			
expressed or implied, concerning the repair, modification or replace	ment described in this report	t. Furthermore, neither the	Inspector nor his employer
shall be liable in any manner for any personal injury or property dar	nage or a loss of any kind ar		
Date 8-11 ,1992 Signed James E. G.	Commissi		utual System
(Authorized In			ents)state or province and number)
			

FORM NR-1 REPORT OF REPAIR MODIFICATION OF INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Public Service Electric & Gas Co Nuclear De	pt. CIP	#S92-344
(name)		organization's P. O. no. job. no.,etc.
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	·	
2. Owner Public Service Electric and Gas Co.		
2. Owner Public Service Electric and Gas Co.	 -	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038	·	
(address)		!+ Ha
3. Name address and identification of nuclear power plant Salem Nuclear Generati	ng Station	ODIC #1
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 4. System Reactor Coolant		Nuclear Class II
4. System Reactor Coolant 5 a: Component repaired, modified or replaced 1RCE11 - Pressurizer Relief Tank		Nucreal Class II
b: Name of manufacturer Westinghouse	·	
c: Identifying nos L-10662TK-1 61420 N/A	N/A	1975
(mhr.'s serial no.) (Nat'l. Bd. No.) (Burisdictional no.)	(other)	(year built)
d: Construction Code ASME Sec. III 1965 N/A N/A	(,	2
ANSI B31.7 1969 Richiop 1970 Add. (addenda) (C	Code Case(s))	(Code Class)
6. Section XI 1983 Summer 83	N/A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
(edition) (addenda) 7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were	made: 1983	S83 N/A
	(edition)	(addenda) (Code Casse(s))
 8. Applicable edition of Construction Code under which repairs, modifications, or replacements were ma *ANSI B31.7/ASME Sec. III 19 		9 1970 N/A (addenda) (Code Case(s))
9. Design responsibilities PSE&G		(2220 2220)
	Temp. N/A **	Other
11. Description of work <u>Machined rupture disc seating surface</u> .		
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)		
12. Remarks: Work Order #: 921006028		
Deficiency Report #: SMD 92-662 **System Inservice Test Performed at NOP		
System diservice lest reflormed at hor		
CERTIFICATE OF COMPLIANCE	· · · · · · · · · · · · · · · · · · ·	
GENTING TO SOME ENGLISHED		
We certify that the statements made in this report are correct and the repair, modification or replaceme		ribed above conforms to
Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current	40	
Certificate of Authorization no	3 , , ¹⁹ 94	
Date 7/30 1992. Signed PSPEG CONuclear Dept. Q.J. Robe	L& P	rincipal Engr.
(repair organization) (surthorized	representative)	(title)
		
CERTIFICATE OF INSPECTION		
, , , , , , , , , , , , , , , , , , , ,		
f, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Versional Board of Boiler Board of Boiler Board of Boiler Board of Boiler B	ssei inspectors, and orbit: Mutua III	certificate of competency
of MA have inspected the repair, modification or replacement describe in this report on	7-24 , 199	2 and state that to the
of MA have inspected the repair, modification or replacement describe in this report on best of my knowledge and belief, this repair, modification or replacement has been made in accordance we	7-29, 199 with Section XI of the	ASME Code and the National
of MA have inspected the repair, modification or replacement describe in this report on best of my knowledge and belief, this repair, modification or replacement has been made in accordance we Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the	7-29, 199 with Section XI of the Inspector nor his en	ASME Code and the National nployer makes any warranty.
of MA have inspected the repair, modification or replacement describe in this report on best of my knowledge and belief, this repair, modification or replacement has been made in accordance we Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the expressed or implied, concerning the repair, modification or replacement described in this report. Furth	7-29, 199 with Section XI of the Inspector nor his en nermore, neither the	ASME Code and the National apployer makes any warranty. Inspector nor his employer
of MA have inspected the repair, modification or replacement describe in this report on best of my knowledge and belief, this repair, modification or replacement has been made in accordance we Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the expressed or implied, concerning the repair, modification or replacement described in this report. Furth shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from the property damage of a loss of any kind arising from the property damage.	7-29, 199 with Section XI of the Inspector nor his entermore, neither the om or connected wi	ASME Code and the National apployer makes any warranty. Inspector nor his employer
of MA have inspected the repair, modification or replacement describe in this report on best of my knowledge and belief, this repair, modification or replacement has been made in accordance we Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the expressed or implied, concerning the repair, modification or replacement described in this report. Furth shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from the modification of the modifica	7-29, 199 with Section XI of the Inspector nor his en hermore, neither the orn or connected wi Factory WJ 373	ASME Code and the National inployer makes any warranty. Inspector nor his employer th this inspection.

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENT(S) | TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Public Service Electric & Ga	s Co Nuclear Dep	pt. CJP #S9	2-350
	(name)		nization's P. O. no. job. rat.atc.
Foot of Buttonwood Road, Hancocks Bridg	e, NJ 08038		
Dablic Commiss Plastwin and Con Co.	(address)		
2. Owner Public Service Electric and Gas Co.	(name)		
Foot of Buttonwood Road, Hancocks Bridg			
	address)		
o. tiano, acciona a la communicación por promise promi	m Nuclear Generati	ng Station Uni	t #1
Foot of Buttonwood Road, Hancocks Bridg	e, NJ 08038	Yhan	lear Class I
4. System Service Water		NUC	clear Class 1.
5. a: Component repaired. modified or replaced 12SW58 Valve b: Name of manufacturer Masoneilan Internationa	<u> </u>		
c: Identifying nos. N=00113-39-2 N/A	N/Z	N/A	N/A 1974 and
	(jurisdictoria no.)	totheri	(year built
d: Construction Code ASME Draft Code for Pump & V	•		2
ANSI B31.7 1969 Ededit 1970 Add. (addenda)		(Code Case(s))	(Code Class)
	Summer 83	N/A	•
(noifibe)	(addenda)	(Code Case	
7. Applicable edition of ASME Code Section XI under which repairs, mod	lifications, or reciacements we	re mace: <u>1983 S</u>	83 <u>N/A</u>
		. ' '	addenda) (Coce (2005)
8. Applicable edition of Construction Code under which repairs, modifica			1970 N/A
*ANSI B31.7/ASME		Code) (edition) 경경	(addenda) (Code Lasers)
	es 1968 Ed. 1970 A	Temp. N/A **Oth	ner
10. Tests conducted hydrostatic pneumatic design pressure Description of work Replaced valve bolting.	pressure <u>rior</u> psi	reip. N/Aou.	·
	h(es) is acceptable if properly identified	<u> </u>	
		,	
12. Remarks: <u>Work Order #: 920627056</u>		cy Report #: SM	ID 92-685
Design Change Package #: N/A	Rev. N/A		
See attached pages for Description		N/A	
** System Inservice Performed @ N	OP		
CERTIFICAT	E OF COMPLIANCE		•
We certify that the statements made in this report are correct and the re			ed above conforms to
Section XI of the ASME Code and the National Board rules as defined in Certificate of Authorization no. ' to use the	n the publication NB-102, curre "NR" stamp ex⊐ires _Oct		
1	A 4 7	3, 19 <u>94</u> .	
Date 7/23 15 92 Signed PSEC CO -Nuclear	Dept. U. Ko	berg Prin	cipal Engr.
(repair organization	on) (authoriz	ed representative)	(title)
			
CERTIFICAT	TE OF INSPECTION		
I, the undersigned, holding a valid commission issued by The National	Board of Boder and Pressure I	Vessel impressions and as	edificate of competers.
issued by the state or province of New Jersey and emp		ght Mitual Insi	rance Co
of MA have inspected the repair, modification or replacement	describe in this report on	7-2 , 1992	and state that to tre
best of my knowledge and belief, this repair, modification or replacement			
Board rules as defined in the publication NB-102, current edition. By significant expressed or implied, concerning the repair, modification or replacement			
shall be liable in any manner for any personal injury or property damag		from or connected with	this inspection.
62, 02 () 66.0			cual System
		A1 277	•
Date 8-6 1976 Signed Omes C. Usual Chuthorized Inspec	Commissions_	NC 373 II.Bd.No.(Including endorsement:	

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 2 Owner Public Service Electric and Gas Co. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 3 Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 4 System Reactor Coolant Nuclear Generating Station Unit #1 5 a: Component Paired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing b: Name of manufacturer PSE&G	.,etc.)
Public Service Electric and Gas Co. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Name, address and identification of nuclear power plant Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Salem Nuclear Generating Station Unit #1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 System Reactor Coolant Nuclear Class a: Component Papaired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing	
Public Service Electric and Gas Co. Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Name, address and identification of nuclear power plant Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 Salem Nuclear Generating Station Unit #1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 System Reactor Coolant Nuclear Class a: Component Paraired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 3. Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 4. System Reactor Coolant Nuclear Class Salem Component Pagaired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 3. Name, address and identification of nuclear power plant Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 4. System Reactor Coolant Salem Nuclear Generating Station Unit #1 Nuclear Class Nuclear Class 5. a: Component repaired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing	
3. Name, address and identification of nuclear power plant Salem Nuclear Generating Station Unit #1 Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 4. System Reactor Coolant Nuclear Class: 5. a: Component repaired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing	
Foot of Buttonwood Road, Hancocks Bridge, NJ 08038 4 System Reactor Coolant Nuclear Class: 5 a Component Paraired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing	
4. System Reactor Coolant Nuclear Class: 5. a: Component = paired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing	
5. a: Component = paired, modified or replaced 6522XD - Reactor Instrument Indicating Tubing	
	<u>.I</u>
h Name of magnifordurer PSEAG	
27/2	
c: Identifying nas. N/A N/A N/A N/A N/A	
(mfr.'s serial no.) (Nat'l. Bd. No.) (jurisdictional no.) (other) (year built) d: Construction Code ANSI B31.7 1969 1970 N/A II	
a source many and a source man	
ANSI BCI.I 1967 Effection; (addenda) Code Class(s)) (Code Class) 5. Section XI 1983 Summer 83 N/A	
(edition (addenda) (Coop Case(s))	
7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 S83 N/A	
	Case(s))
8. Applicable edizion of Construction Code under which repairs, modifications, or replacements were made: * 1969 70A N/A	
*ANSI B31.7/ANSI B31.1 1967 Ed. code) (edebor. (addenda) (Code	Case(s))
3 Design responsibilities PSE&G	
10. Tests conducted: hydrostatic [] pneumatic [] design pressure [] pressure N/A psi Temp. N/A **	
Description of work Performed weld repair to Reactor Instrument Tubing.	
(use of additional sheet(s) or sketch(es) is acceptable if properly identified	
:2. Remarks: Work Order #: 920912038	
Deficiency Report #: SMD 92-694	
**System Inservice Test Performed at NOP/NOT	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms	0
Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.	
Certificate of Authorization no to use the "NR" stamp expires, 19, 19,	
Date 8/5 19,92 Signed PSESC Co -Nuclear Dept. I Shall Principal Engr.	
Date 8/3 19,9/2 Signed PSEC Co Nuclear Dept A Abelia Principal Engr. (recour organization) (authorize: representative) (little)	-
OCTUTION TO A PROPERTY OF INTERPROPERTY.	
CERTIFICATE OF INSPECTION	
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Espectors, and certificate of compete	тсу
issued by the state or province of New Jersey and employed by Arkwright Mutual Insurance Co	
of MA have inspected the repair, modification or replacement describe in this report on 3-4, 194 V and state that to	
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the N	
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the N Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the inspector nor his employer makes any was expressed or implied, concerning the repair, modification or replacement described in this report. Furnermore, neither the inspector nor his emp	ranty,
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the N Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the inspector nor his employer makes any was expressed or implied, concerning the repair, modification or replacement described in this report. Furnermore, 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.	ranty,
best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the N Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the inspector nor his employer makes any was expressed or implied, concerning the repair, modification or replacement described in this report. Furnermore, neither the inspector nor his emp	ranty,

FORM NR-1 REPORT OF REPAIR \square MODIFICATION \square OR INSTALLATION OF REPLACEMENT(S) \square TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR PIWER PLANTS Page 1 of 1

Work performed by <u>Public Service Flectric</u>			
	(name)		on's P.O. no., job. no.,etc.)
Foot of Buttonwood Road, Hancocks	_ ,		
	(address)		
2 Owner <u>Public Service Electric and Ga</u>	as Co.		
Test of Dukkamanal Danid Hamanaka	` '		
Foot of Buttonwood Road, Hancocks	(address)		
Name, address and identification of nuclear power plant	· · · · · · · · · · · · · · · · · · ·	nomitim station I	mit #0
Foot of Buttonwood Road, Hancocks			<u> </u>
4 System Steam Generator Blowdown	BL109e, 10 0000		Nuclear Class II
5 a: Component repaired, modified or replaced 22GB4 - V	(/a)lve	<u></u>	tectear class in
b: Name of manufacturer	AUTAG		
c. Identifying ros. N00130-2-2 N/A	N/A	N/A	1987
(mfr's, serial no.) (Nat'l.Bd.No.)	(jurisdictional no.)	(Direct	(year built)
d: Construction Code ASME Sec. TTT 1971	S71	N/2	2
	ddenda)	(Coce Cases	(Code Class)
6. Section XI1983	Summer 83	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N/A
(edition)	(addenda)		Code Case(s))
7 Applicable edition of ASME Code Section XI under which repa	, , ,	ents were mage: 1983	S83 N/A
, - 		(edition)	accenda) (Code Case(s))
8. Applicable edition of Construction Code under which repairs, r	modifications, or replacements	were made *1971	S71 N/A
,	NSI B31.7 1969 Ed.		accenda) (Code Case(s))
9 Design responsibilities PSE&G			
	ign pressure ☐ **pressure	NOP ps Code Case	e(sN/A
11 Description of work Replaced plug and ster	m assembly and val	ve bonnet.	
		is acceptable if comeny identified)	
			
12. Remarks:		iciency Report #: S	SMD 92-713
Design Change Package #: N/	A Rev. N/A		
See attached pages for Desc			
**System Inservice Test Per	formed @ NOP Temp.	N/A	
055	TITIO ATT OF OOM DI 1441	.	
CEP	RTIFICATE OF COMPLIANCE	Æ	
	a pre-at-		
We certify that the statements made in this report are correct and			accve conforms to Section XI
of the ASME Code and the National Board rules as defined in the			
Certificate of Authorization no. 36 to use the "NR	stamp expires	<u>3,</u> 19 <u>54</u>	•
Date 7-28 19, 92 Signed PSE&G CoN	uclear Dept.	I Staline	Principal Engr
	ganization)	(authorized epresentative)	(title)
CE	RTIFICATE OF INSPECTIO	N.	
0 E	MINIORIE OF INSPECTIO	14	
1, the undersigned, holding a valid commission issued by The Nati	ional Board of Boiler and Pres	sure Vessei inspectors, and cer	tificate of competency issued by
the state or province of New Jersey and employed		: Mutual Insurance	
of MA have inspected the repair, modification or rep			and state that to the
best of my knowledge and belief, this repair, modification or replace			
Board rules as defined in the publication NB-102, current edition.			
expressed or implied, concerning the repair, modification or replace			· ·
sole in any manner for any personal injury or property damage of	•	•	
	r a loss of any kind arising fror	n or connected with this inspect	·
	r a loss of any kind arising from		·
1976 Signed Combo 2.	1.1		tion
le 8-3 , 197 Signed Charles G. (Inspects	1.1	Factory 1	tion

FORM NR-1 REPORT OF REPAIR | MODIFICATION | OR INSTALLATION OF REPLACEMENTS: 5 TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS Page 1 of 1

Work percenes by Public Service Electric & Ges	Co Nuclear Dept.	CTP	#S92 - 362	
	-		on's P.O. ~o., pos	
Foot of Buttonwood Road, Hancocks Bridge	NJ 08038			
· · · · · · · · · · · · · · · · · · ·	æddress)			
2 Owner Public Service Electric and Gas Co.				
•	(name)			
Foot of Buttonwood Road, Hancocks Bridge				
and the street of a decrease of the street o	address)		Their No	
3. Name. accress and identification of nuclear power plantSales	_		Unit #1	
Foot of Buttonwood Road, Hancocks Bridge 4 System Chemical Volume Control			Nuclear C	Tage II
5. a: Component repaired, modified or replaced 1CV55 - Valve			MUCIEST	
b: Name of manufacturerMasoneilan				
c: Identifying nos. 7410-95269-1 N/A		N/A	19	75
(mfr's, senal no.) (Nat'l.Bd.No.) (uns		-		ear built)
d: Construction Code <u>ASME_DP&V_1968</u> 1970	N/A		2	
ANSI B31.7 1969 (Bidlion) 1970 Add. (addenda)	(Code Cases	i))	(Coat 3	ass
6. Section X 53	mmer 83	·		X/A
(edition)	addenda)		(Coce Case	4S)}
7. Applicable scircon of ASME Code Section XI under which repairs, modification	ions, or replacements were made	1983	S83	_N/A
•		(edition)	•	(Dode Case(s)
8. Applicable adition of Construction Code under which repairs, modifications				
	raft Code for Pumps		(addenca:	Code Case(s):
9. Design resconsibilities PSE&G Valves 1968 Fd. 1			-(-) 37.03	
10. Tests conducted: hydrostatic [] pneumatic [] design pressure				
11. Descriptor of work <u>Replaced plug and stem asset</u>	een.s) or sketch(es) is acceptable if pro-		CE WITCH *	
ct to facilitate maintenance.	(ca, c,	ony raomanou,		
12. RemarksWork Order #: 920822053 Design Change Package #: N/A	Deficiency Re	port #:	SMD 92-71	€
Design Change Package #: N/A	Rev. N/A			
See attached pages for Description	of Replacement. N/A	.		
**System Inservice Test Performed	@ NOP Temp. N/A			
CERTIFICATE	OF COMPLIANCE			
	err et	, .,		6 - 4- 3
We certify that the statements made in this report are correct and the repair in		ms described	above conform	s to Section XI
of the ASME Code and the National Board rules as defined in the publication N		,		
Certificate of Authorization no. 36 to use the "NR" stamp excit	es <u>Oct. 3</u> , 19 <u>54</u>	<u>* </u> .		
Date 7-27 19. 92 Signed PSE&G CoNuclear	Dept. I Shark	. he -	Prin	ncipal Engr
(repair organization)	(authorized *50	resentative)		(Ine)
		· · · · · ·		
CERTIFICATE	OF INSPECTION			
I, the underscried incliding a valid commission issued by The National Board	f Boiler and Pressure Vessel Inspa	ctors, and ce	rtificate of comce	etemby issued by
the state or province of <u>New Jersey</u> and employed by		<i>,</i>	7 77	
of have inspected the repair, modification or replacement cer				ine that to the
best of my knownedge and belief, this repair, modification or replacement has				
Board rules as defined in the publication NB-102, current edition. By signing the		-	-	
expressed or implied, concerning the repair, modification or replacement described in any manager for any passage light or proporty demand on a loss of the				taxoyer shall be
ble in any manner for any personal injury or property damage or a loss of an	wind ansing from or connected w			Xcii- cm :
Date 5-31 1992 Signed James E. Cork	Commissions /	17377	Mutual Sy	; St. Call /
(Inspector)		duding endorse	ments)state or pro	wicze and number
,	,		,	_

FORM NR-1 REPORT OF REPAIR (3) MODIFICATION (1) OR INSTALLATION OF REPLACEMENT(S) (1) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

	U-144 C	T	P.O.# P1-4	19491	
1. Work performed by_	Welding Services			27062 Act. 01	
2225 Skyland	d Court, Atlanta	, Georgia 30	ame))071	(repen	r organization's P. O. no. job. no.,etc.i
2. Owner Public S	Service Electric a		irean)		·
Foot of	Post torread Pond	(nar		ersey 08038	-
1001 01	Buttonwood Road,	Hancocks	Bridge, New J	ersey vouso	
	entification of nuclear power pla	ant Salem Nu	clear Generat:		t_#1
Foot of But	tonwood Road, I	Hancocks Brid			
	Generator Feed Pumy modified or replaced Stea		Foodwater Noz	"le and Pining	
	er Steam Generator				
	See Attachment				
	nfr.'s serial no.) (Nat'l. Bd. A		(jurisdictional no.)	(other)	(year built)
d: Construction Code	See Attachment 1_	·			
e Camina VI	(edition) 1983	(addenda) Summe	- 63	(Code Case(s)) N/A	(Code Class)
6. Section XI	(edition)		denda)		Case(s))
7. Applicable edition of AS	SME Code Section XI under w	*	•	•	S/83 N-416
				(edition)	(addenda) (Code Case(s))
8. Applicable edition of Co	onstruction Code under which	repairs, modification	is, or replacements we	re made: <u>See Atta</u>	achment l
C. Design companibilities	DODGO			(Code) (edition) (addends) (Code Case(s))
 Design responsibilities Tests conducted: hydro 		esign pressure []		oi Swetam Ingary	ice Test @ NOP/NOT
•	Steam Generator -			•	
		-) is acceptable if properly iden		
All work per	rformed in accordan	nce with Weld	ling Services,	Inc. Traveler 1	No. 920627062
<u> </u>		 			
2. Remarks:					
					
					
		CERTIFICATE O	OF COMPLIANCE		
	nents made in this report are o				cribed above conforms to
Section XI of the ASME C	code and the National Board r	ules as defined in the	e publication NB-102, (3" stamp expires NOV	current edition. ember 7, 19_92	
Certificate of Authorization			・・・テ	ember 7 , 19 32	•
Date August 28 19.	92.Signed Welding	Services, In			TE GA Minager
	•	(repair organization)	(aut	forized representative)	(titie)
					
		CERTIFICATE (OF INSPECTION		
it, the undersigned, holdin	g a valid commission issued	by The National Boa	rd of Boiler and Pressu	ure Vessei Inspectors, and	d certificate of competency
issued by the state or pro	ovince of <u>New Jersey</u>	and employe	d by Arkwright	t Mutual Insura	nce Co.
,	pected the repair, modification belief, this repair, modification	- · · · · •	•		92 and state that to the ASME Code and the National
	the publication NB-102, curre				
expressed or implied, con	ncerning the repair, modificati	on or replacement de	escribed in this report.	Furthermore, neither the	Inspector nor his employer
Shall be hable in any man	ner for any personal injury or	Property damage or	a icss of any kind ans	Factory Mu	tual System
Date 9//	92 Signed <i>M.S. LL</i>	enthal	Commissio		15B15 NJ 431
1		(Authorized Inspector)		(Nati.Bd.No./including endomen	nentsistate or province and number



ATTACHMENT 1 to NR-1

P.O. #P1-419491

W.O. # 920627062 Act. 01

		STEAM GENERATOR	PIPING	
5.	c: Identifying Nos.: Manufacturer's Serial No. National Board No. Jurisdictional No. Other Year Built	1003 68-10 None N/A 1970	None None None N/A 1977	
5.	d: Construction Code: Edition Addenda Code Cases Code Class	ASME Sec. III 1965 W/65 N/A A	B31.1, 1967 B31.7, 1969 None N/A II (1)	
8.	Applicable edition of Construction Code under which repairs, modifications or replacements were made:	ASME Sec. III (2 1965 (2 W/65 (2 N/#	1983 1986 1969 S/83 None None	

- (1) All replacement activities performed in accordance with Class I.
- (2) Filler material furnished in accordance with ASME Section III 1986 Edition, No Addenda; Welding Procedure Specification qualified in accordance with ASME Section IX. 1989 Edition with 90 Addenda.

ENCLOSURE I

	VISUAL INSERVICE INSPECTION	DATA SEKET	
1.	WSI TRAVELER I.D. 92062706	2 ACT #1	
2.	Pcv 8.26.92 Work Order # 920627062		
		l -a -	
3.	System REACTOR COOLANT (II STM. GEN.	NOZZLE)
4.	Nuclear Class #		•
5.	P.S. Piping or Isometric Drawing #	205 202	SH.# 3
€.	System at Test Pressure	916	psig
7.	System at Test Temperature	427	·F
ε.	Required Hold Time at Test Pressure	4 HRS.	Minutes
9.	Test Boundary Description BE AND LAST WELD ON REPLACE		
10.	Actual Time at Test Presusre Exceed Yes X No	s Required Hold	l Time:
11.	Inspection Results/Remarks: No	LEAKS OBSE	RVED
		~	
12.	Work Request/Work Order Initiated:	No X Yes	7
13.	Nuclear Shift Supervisor Notified:	No X Yes	
14.	Inspection Completed: Satisfactory	X Unsatisfa	ctory*
• λ ny	y source of leakage or evidence of s	tructural distr	ess.
	Vaul C. Vincent	工	8.26.92
•	VISUAL INSPECTOR V	T LEVE L	DATE
<u>_</u>	SUPERUSCOP BOUTON		8/24/92
	SUPERVISOR REVIEW V	T LEVEL	DATE

FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

. Work performed b	. Welding S	Services.]	Inc.		FP1-4194 F9206270		01		
				(name)				ation's P. O	. no. job. no.,etc.
2225 SKy1a	nd Court,	Atlanta, G		3UU / 1 address)		· -			
Owner Public	Service Ele	ctric and							
Foot o	f Buttonwood	l Road,		name) s Bridge,	New Jers	ey 08038	}		
				idrees)		0	77 . A.		
Name, address and i	dentification of nucl tronwood Roa	ear power plant	Salem I	Nuclear Ge	lersev.	08038	Unit #1		
System Steam					ociscy	00030			
a: Component repaire					er Nozzle	and Pipi	.ng		
b: Name of manufact	turer <u>Steam</u> G	enerator -	- Westing	house; Pir	oing - Pu	11man-Kel	log		
c: Identifying nos	See Att	achment I							
	(mfr.'s sens) no.)	(Nat'l. Bd. No.)	,	(jurisdictional	no.)	(other)		6 **	er built)
d: Construction Code	See Attach	ment l			· · · · · · · · · · · · · · · · · · ·				
a	(edition)		(addenda)	02		(Code Case(s))	N7 / A	(Code	Class)
Section XI	1983	· · · · · ·		mer 83			N/A		
Applicable edition of	(edition)	n Yl. under which		(addenda) ficetions or rec	lacamente we	ra mada: 19	(Code Case(s)) 83 S/		N-416
Applicable edition of	ASMIC COOR SECTION	TAI UIGH WIIG	i iapaiis, iiiodi	ilcanoria, or iep	IdColligitts Wei			ende)	(Code Cas
Applicable edition of	Construction Code	under which rep	airs, modificat	ions, or replace	ments were m				,
*								ddendaj	(Code Case
Design responsibiliti	es PSE&G								,
Remarks:	erformed in								
			CERTIFICATE	OF COMPLIAN	ICE				
e certify that the state ection XI of the ASME ertificate of Authorizat	Code and the Nati		as defined in		NB-102, curre	nt edition.		above o	onforms to
210 August 28 1	9, 9.2. Signed	Welding Se	ervices,	Inc.	Jan 6	m	S. re	QA	MENGYER
			(repair organization)	(authorize	ed representative)		(litie)	
			CERTIFICATI	OF INSPECTI	ON				
the undersigned, hold	ding a valid commis	ssion issued by	The National B	oard of Boiler a	and Pressure V	essel inspecto	rs, and certif	icate of d	ompetency
sued by the state or p MA have in est of my knowledge a pard rules as defined kpressed or implied, c hall be liable in any m	nspected the repair, and belief, this repair in the publication N concerning the repa	, modification or r, modification or NB-102, current e uir, modification o	replacement of replacement be dition. By sign or replacement	has been made hing this certific t described in the	report on	with Section XI e Inspector nor thermore, neith	, 1992 of the ASME his employe her the Inspe	and state Code are or makes octor nor	any warran his employe
111	- ,		band aming	U. 2 1033 01 011	y mina among	"Factory	Mutual	SVST	on.
1ate 9///	1992 Signed 1	4115	de)			VB 634		•	



ATTACHMENT 1 to NR-1

P.O. #P1-419491

W.O. # 920627064 Act. 01

			STEAM GENERAT	PIPING			
5.	 c: Identifying Nos.: Manufacturer's Serial No. National Board No. Jurisdictional No. Other Year Built 		1022 68-8 None N/A 1970		None None None N/A 1977		
5.	d:	Construction Code: Edition Addenda Code Cases Code Class	ASME Sec. III 196 W/65 N/A A	 35	B31.1,	. 1967 B None N/A II (1)	31.7, 1969
8.	Co	oplicable edition of construction Code under nich repairs, modifications replacements were made: CODE EDITION ADDENDA CODE CASES	ASME Sec. III 1965 W/65	(2) (2) (2) N/A	Fittings ASME Sec. III 1983	Weld Filler Material ASME Sec. III 1986 None None	Fabrication & Examination B31.7 1969 None None

- (1) All replacement activities performed in accordance with Class I.
- (2) Filler material furnished in accordance with ASME Section III 1986 Edition, No Addenda; Welding Procedure Specification qualified in accordance with ASME Section IX. 1989 Edition with 90 Addenda.

ENCLOSURE I

	1.157 70.	SUAL INSERVICE			
1.	Code Job #		20627 064	H ACT#1	
_	LCA 9.50.15	9206			_
2.					
3.	System	REACTOR CO	OLANT (# 12	STM. GEN.	NOZZLE)
4.	Nuclear Cl	ass #1		·	
5.	P.S. Pipin	g or Isometric	Drawing #	205 202	SH.#3
6.	System at	Test Pressure _	· · · · · · · · · · · · · · · · · · ·	916	psig
7.	System at	Test Temperatur	e	427	°F
ε.	Required H	old Time at Tes	t Pressure _	4 HRS.	Minites
9.		ary Description			
		· · · · · · · · · · · · · · · · · · ·			
10.		e at Test Presu No		Required Hold	i Time:
11.	Inspection	Results/Remark	s: No Le	EAKS OBSER	VED
					
					
12.	Work Reque	st/Work Order I	nītiated: N W	o <u>X</u> Yes R/WO #N/	/A
13.	Nuclear Sh	ift Supervisor	Notified: N	o <u>X</u> Yes	
14.	Inspection	Completed: Sa	tisfactory _	X_ Unsatisfa	actory*
± - An	y source of	leakage or evi	dence of str	uctural disti	ess.
	Paul C. V	incent			8.26.92
	VISUAL I	NSPECTOR	VT	LEVEL	DATE
\leq	3/1/	Loss	VT(-4)	Leve/#	8/26/92
	SUPERVISO	R REVIEW	TV	LEVEL	DXTE

FORM NR-1 REPORT OF REPAIR (2) MODIFICATION (1) OR INSTALLATION OF REPLACEMENT(S) (1) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

4 Minute and armed by	y Welding Services,		.# P1-419491 .# 920627066 Act. 01	
1. Work penarmea b	y welding belvices,	(name)		eir organization's P. O. no. job. no.,etc.
2225 Skyla	nd Court, Atlanta,	•		
2. Owner Public	Service Electric and	(address)		
2.04/16/	DUITION DISCULLE CAN	(name)		
Foot o	f Buttonwood Road,		, New Jersey 08038	
		(address)		. N.
			Generating Station Un:	it #1
	ttonwood Road, Ha		W Jersey 08038	
5. a. Component renaire	d modified or replaced Steam	Generator Feedwa	ter Nozzle and Piping	
b: Name of manufact	turer Steam Generator	- Westinghouse; P	iping - Pullman-Kello	g
	See Attachment 1		·	
	(mfr.'s senai no.) (Nat'l. Bd. No.	(jurisdiction	nai no.) (other)	(year built)
d: Construction Code	See Attachment 1			
	(edition)	(addenda)	(Code Case(s))	(Code Class)
6. Section XI	1983	Summer 83	N/4	
7 Applicable edition of	(edition) ASME Code Section XI under white	(addenda) ch renairs modifications or r	eplacements were made: 1983	(o Case(s)) S/83 N-416
7. Applicable edition of	AGME COOR SECTION AT UNGER WATER	or repairs, modifications, or r	(edition)	(addenda) (Code Case)
8. Applicable edition of	Construction Code under which re	pairs, modifications, or repla	cements were made:See At1	
		,,,,,	(Code) (edition	
9. Design responsibiliti				
0. Tests conducted: hy	drostatic 🛛 pneumatic 🗎 desi	gn pressure [] pressure _	psi System Inser	vice Test @ NOP/NO
1. Description of work	<u> Steam Generator - 1</u>	<u>epair feedwater n</u>	ozzle: Piping - replac	<u>ced feedwater pipi</u>
	•	nal sheet(s) or skatch(es) is acceptable		
All work p	<u>erformed in accordance</u>	e with Welding Se	rvices, Inc. Traveler	No. 920627066
				
2. Remarks:			· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·		······································	
		CERTIFICATE OF COMPL	ANCE	•
We certify that the state	ements made in this renort are co	rrect and the renair modifics	tion or replacement of the items de	escribed above conforms to
Section XI of the ASME	Code and the National Board rul	es as defined in the publicati	on NB-102, current edition.	
Certificate of Authorizat		to use the "NR" stamp e	xpires November 7_, 1992	<u> </u>
Date August 28 1	9 92 Signed Welding S	Services, Inc.	Dane Voe	S.te QA Manager
Delle Magical 25	s, 72. Signed	(repair organization)	(authorized representative)	(illie)
		CERTIFICATE OF INSPEC	TION	 _
		OCHIE MAIE OF ENOTEL	/INAT	
	<u> </u>	The National Board of Boile	r and Pressure Vessel Inspectors, a	nd certificate of competency
issued by the state or p of MA have in	province of <u>New Jersey</u> spected the repair, modification of		rkwright Mutual Insura	ance Co. 992 and state that to the
	•	•	de in accordance with Section XI of the	
Board rules as defined	in the publication NB-102, current	edition. By signing this cert	ficate, neither the Inspector nor his	employer makes any warran
expressed or implied, of shall be liable in any m	concerning the repair, modification	or replacement described in	this report. Furthermore, neither t	he inspector nor his employe with this inspection
arian be nable in any III	annon for any personal dijury of p	/ I a loss of	any kind arising from or connected Factory M	itual System
Date _9///	1992 Signed M. S &	/		•
	, 19 <u>72</u> Signed	Jewill	Commissions NB 6344 A	OISBIN NOT431



ATTACHMENT 1 to NR-1

P.O. #P1-419491

W.O. # 920627066 Act. 01

		STEAM GENERATO	OR '	PIPING		
5. c:	Identifying Nos.: Manufacturer's Serial No. National Board No. Jurisdictional No. Other Year Built	1023 68-9 None N/A 1970		None None None N/A 1977		
5. d :	Construction Code: Edition Addenda Code Cases Code Class	ASME Sec. III 196 W/65 N/A A	5	B31.1, 1967 B31.7, 1 None N/A II (1)		31.7, 1969
Co	oplicable edition of construction Code under hich repairs, modifications replacements were made: 'CODE EDITION ADDENDA CODE CASES	ASME Sec. III 1965 W/65	(2) (2) (2) N/A	Fittings ASME Sec. III 1983 S/83 None	ERIAL Weld Filler Material ASME Sec. III 1986 None None	Fabrication & Examination B31.7 1969 None None

- (1) All replacement activities performed in accordance with Class I.
- (2) Filler material furnished in accordance with ASME Section III.fl 986 Edition, No Addenda; Welding Procedure Specification qualified in accordance with ASME Section IX. 1989 Edition with 90 Addenda.

ENCLOSURE I

WSI TRAVE_ER I.D. 920627066 AC-# 1
PCV 8-26-92
Work Order # 920627066
System REACTOR COOLANT (#13 STM. GEN. NOZZLE
Nuclear Class # 1
P.S. Piping or Isometric Drawing # 205202 SH.#3
System at Test Pressure 916 psig
System at Test Temperature 427 °F
Required Hold Time at Test Pressure 4 FRS. Minutes
Test Boundary Description BETWEEN STEAM GENERATOR AND LAST WELD ON REPLACED FITTING.
Actual Time at Test Presusre Exceeds Required Hold Time: Yes X No No No LEAKS OBSERVED
Work Request Work Order Initiated: No X Yes WR/WO \$ N/A Nuclear Shift Supervisor Notified: No X Yes
Inspection Completed: Satisfactory X Unsatisfactory*
y source of leakage or evidence of structural distress. Paul C. Vincent VISUAL INSPERTOR VT LEVEL DATE

FORM NR-1 REPORT OF REPAIR (2) MODIFICATION (1) OR INSTALLATION OF REPLACEMENT(S) (1) TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

4.4		P.O.# P1-	419491	
 Work performed by Welding S 	ervices, Inc.	W.O.# 920	627067 Act. 01	
2225 Skyland Court,	Atlanta, Georgia	(name) 30071	(гереи	organization's P. C. no. job. no.,etc.;
2.Owner Public Service Ele	ectric and Gas Co.	(address)		
		(name)		
Foot of Buttonwood	Road, Hancoc	ks Bridge, New	Jersey 08038	
		(address)	eina Ctation Hait	. #1
. Name, address and identification of nucl Foot of Buttonwood Roa				. #1
	Teed Pump Discharg		ey 00030	
System Steam Generator E a: Component repaired, modified or replace			zzle and Pining	
b: Name of manufacturer Steam G	Penerator - Westin	ghouse: Piping	- Pullman-Kellog	
c: Identifying nos. See Att		ghodoc, 1 -pg		
(mfr.'s senal no.)	(Nat'l, Bd. No.)	(jurisdictional no.)	(other)	(year built)
d: Construction Code See Attach		J	()	0 -2 -3-4
(edition)	(addenda)		(Code Case(s))	(Code Class)
Section XI 1983	•	mmer 83	N/A	,,
(edition)		(addenda)	(Code (Case(s))
Applicable edition of ASME Code Section	n XI under which repairs, mo	difications, or replaceme	nts were made: 1983	S/83 N-416
•	·		(edition)	(addenda) (Code Case)
Applicable edition of Construction Code	under which repairs, modific	cations, or replacements v	were made: <u>See Atta</u>	chment 1
			(Code) (edition)	(addends) (Code Case)
Design responsibilities PSE&G				
. Tests conducted: hydrostatic [] pneul	matic D design pressure E	pressure	psi System Inservi	ce Test @ NOP/NO
. Description of work Steam Gene	• .			
. Doom ball of work	(use of additional sheet(s) or ske			
All work performed in	•			020627067
All work beliefmed in	accordance with w	SETUTING DELVICES	, the liaveler	720027007
. Remarks:				
		· · · · · · · · · · · · · · · · · · ·		
				
				
	CERTIFICA	TE OF COMPLIANCE		
We certify that the statements made in thi			·	ribed above conforms to
Section XI of the ASME Code and the Nati Certificate of Authorization no.	69 to use the	e "NR" stamp expires No	vember 7, 19 92	
,				
Date August 23 19, 92. Signed	Welding Services,	Inc. y_a	y V.sc.	Site CiA Manager
9	(repair organiza	tion)	(authorized representative)	(title)
	CERTIFICA	ATE OF INSPECTION		
•	52 15			
I, the undersigned, holding a valid commis	ssion issued by The National	Board of Boiler and Pre-	ssure Vessel Inspectors, and	certificate of competency
issued by the state or province of New			ht Mutual Insuran	
of <u>MA</u> have inspected the repair, best of my knowledge and belief, this repair	, modification or replacement ir, modification or replacemen			ASME Code and the Nation
Board rules as defined in the publication N				
expressed or implied, concerning the repa	ir, modification or replaceme	ent described in this repo	ort. Furthermore, neither the	Inspector nor his employer
shall be liable in any manner for any person	onal injury or property dama	ge or a loss of any kind a	arising from or connected wi	th this inspection.
			sions NB 6 344 A	•
Date	(Authorized Inspe			enterstate or province and number
	(Authorized Inspe	ectory	(HBII RGTAD flucthqud eugouseu	ensistes or province and number)

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229.

NB-61



ATTACHMENT 1 to NR-1

P.O. #P1-419491

W.O. # 920627067 Act. 01

		STEAM GENERATOR		PIPING		
5. c: Identifying Nos.: Manufacturer's Serial No. National Board No. Jurisdictional No. Other Year Built		1203 68-51 None N/A 1971		None None None N/A 1977		
5.	d: Construction Code: Edition Addenda Code Cases Code Class	ASME Sec. III 1965 S/66 N/A A		B31.1, 1967 B31.7, 1969 None N/A II (1)		
	Applicable edition of Construction Code under which repairs, modifications or replacements were made: CODE EDITION ADDENDA CODE CASES	1965 S/66	(2) (2) (2) /A	Fittings ASME Sec. III 1983 S/83 None	ERIAL Weld Filler Material ASME Sec. III 1986 None None	Fabrication & Examination B31.7 1969 None None

- (1) All replacement activities performed in accordance with Class I.
- (2) Filler material furnished in accordance with ASME Section III 1986 Edition, No Addenda; Welding Procedure Specification qualified in accordance with ASME Section IX. 1989 Edition with 90 Addenda.

ENCLOSURE I

	WSI TRAVELER I.D. Code Job # PCV 8-24-92	INSPECTION DA	IA SHBBI . k .					
1.	Code Job #	4206270	67 ACT # 3	<u></u>				
2.	PCV 8-26-92 Work Order # 92062							
3.	System REACTOR CO	OLANT (# 14	STM. GEN. NO	OZZLE) -				
4.	Nuclear Class #							
5.	P.S. Piping or Isometric	Drawing #	205202	SH.#3				
6.	System at Test Pressure _		916	psig				
7.	System at Test Temperatur	e	427	°F				
ε.	Required Hold Time at Tes	t Pressure	4 HRS.	Minutes				
9.	Test Boundary Description	est Boundary Description #14 S/G Notelle						
	BETWEEN STEAM GENERATOR AND LAST WELD ON REPLACED FITTING.							
10.	Actual Time at Test Presu Yes No		equired Hold	Time:				
11.	Inspection Results/Remarks: No LEAKS OBSERVED							
7								
12.	Work Request/Work Order I	nitiated: No WR	X Yes /WO # N/A					
13.	Nuclear Shift Supervisor	Notified: No	× Yes					
14.	Inspection Completed: Sa	tisfactory <u>×</u>	Unsatisfa	ctory*				
* An	y source of leakage or evi	dence of stru	ctural distr	ess.				
	Paul C. Vincent	I		8.26.92				
	VISUAL INSPECTOR	VT L	EVEL	DATE				
_	012	(4-17-4)	Level#	8/24/97				
	SUPERVISOR REVIEW		EVEL	DATE				