

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0202 2. Code Class ASME III, CLASS 1
 3. Item Description PRESSURIZER SAFETY VALVE; DRESSER 31709N; 2460 PSIG
 4. N-5 Package Number 2RC03-2 5. W.O. Number 2420484
 6. Original Construction Code Edition ASME III CLASS 1, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 1, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description REPLACE VALVE PER W.O.2420484

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE VENDOR TESTING. THE REPLACEMENT VALVE IS PART OF ROUTINE MAINTENANCE SN#BS08616.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 1, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 1, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
MBN 01/30/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 01/30/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 01/30/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 01/30/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0202	N/A	BS-08616	N/A	

19. Planner *Michael B. Newell* 2-1-02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer *Ramakant Indap* 2-1-02 Print Name RAMAKANT INDAP
Signature Date
 21. ANII *Robert Hogstrom* 2-1-02 Print Name ROBERT HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/01/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2420484
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S WINTERSBURG RD TONOPAH AZ 85354 Expiration Date N/A
Address

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-VALVE	DRESSER	BS08616	N/A	2JRCEPSV202	1979	Replacement	Yes

7. Description of Work VALVE BEING REPLACE/ROTATED AS PART OF ROUTINE MAINTENANCE

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure 2460 psi Test Temp. 653 °F
4131-2

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 2420484 VALVE BEING REPLACE AS PART OF ROUTINE MAINTENANCE
(SN#BS08616)..

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Alan Monow ISE Engineer Date 4/13/02
Owner or Owner's Designee, Title

R.L. Browning RLB ISI ENG 4-15-02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-1-02 to 4-15-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert S. Ferguson
Inspector's Signature

Commissions NB 9685 "ANIC" AZ. 264
National Board, State, Province, and Endorsements

Date 4-15-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0203 2. Code Class ASME III, CLASS 1
 3. Item Description PRESSURIZER SAFETY VALVE; DRESSER 31709N; 2460 PSIG
 4. N-5 Package Number 2RC03-2 5. W.O. Number 2420485
 6. Original Construction Code Edition ASME III CLASS 1, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 1, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description REPLACE VALVE PER W.O.2420485

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE VENDOR TESTING. THE REPLACEMENT VALVE IS PART OF ROUTINE MAINTENANCE SN#BS08567.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 1, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 1, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
MBN 01/30/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 01/30/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 01/30/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 01/30/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0203	N/A	BS-08567	N/A	

19. Planner *Michael B. Newell* 2-1-02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer *Ramakant Indap* 2-1-02 Print Name RAMAKANT INDAP
Signature Date
 21. ANII *Robert Hogstrom* 2-1-02 Print Name ROBERT HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/01/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2420485
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD TONOPAH AZ 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-VALVE	DRESSER	BS08567	N/A	2JRCEPSV203	1978	Replacement	Yes

7. Description of Work VALVE BEING REPLACE/ROTATED AS PART OF ROUTINE MAINTENANCE

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure 2460 psi Test Temp. 653 °F
4113102 4113102

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 2420485 VALVE BEING REPLACE AS PART OF ROUTINE MAINTENANCE
(SN#BS08567)..

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Alan Mamon ISE Engineer Date 7/13/02
Owner or Owner's Designee, Title

R.L. BROWNING DLR ISI ENG 4-15-02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-1-02 to 4-15-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.L. Browning Commissions NB 2685 "ASME" Az Z64
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-15-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JCHEUV0565 2. Code Class ASME III Class 3
 3. Item Description 3" FISHER CONTROL VALVE
 4. N-5 Package Number 2CH12-1 5. W.O. Number WO# 2440007
 6. Original Construction Code Edition ASME III Class 3, 1974 Ed., Summer 1975 Add.
 7. Original Installation Code Edition ASME III Class 3, 1974 Ed., Winter 1975 Add.
 8. Work Description Replacement of scratched valve stem during the valve repack. Stem comes as a plug/stem assembly.

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III pressure boundary. The plug is being replaced as part of a stem/plug assembly.

11. Repair/Replacement Work Organization APS site maintenance group

12. Replacement Item Construction or reconciled Code/Edition ASME III Class 3, 1974 Ed., S'75 Add.

13. Repair/Replacement Activity Construction Code/Edition ASME III Class 3, 1974 Ed., W'75 Add.

14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. YES NO
DMG 04/08/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 04/08/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 04/08/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 04/08/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JCHEUV0565	24A5752XD32	LD8447-1		DD 637010-0001

19. Planner *David Goodlet* 4-8-02 Print Name David Goodlet
Signature Date
 20. ISI Engineer *Allan Morrow* 4/8/02 Print Name Allan Morrow
Signature Date
 21. ANII *Robert Hogstrom* 4-8-02 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 04/08/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2440007
Address Work Order Number

3. Work Performed by Palo Verde Nuclear Generating Station Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System CH - Chemical & Volume Control System

5. (a) Applicable Construction Code ASME Class 3 19 74 Edition, S'75 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PLUG	Fisher	CD8444-1	N/A	2JCHEUV565	1991	Replacement	Yes

7. Description of Work Valve repack, replace stem/plug assembly due to scratched stem.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 2440007 for control valve 2JCHEUV0565. Replace plug/stem assembly during valve repack due to scratch on stem.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Indap, Consulting Metallurgical Engineer Date 4/9/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-8-02 to 4-9-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Indap
Inspector's Signature

Commissions NB 9685 "ANIC" Az 264
National Board, State, Province, and Endorsements

Date 4-9-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08624 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
 4. N-5 Package Number _____ 5. W.O. Number 2440238
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

11. Repair/Replacement Work Organization NWS Technologies
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNVB15JN	ADE22		00680062-2
SPRING	4138947N	92256-5-1	8976051	00619307-1

19. Planner David Goodlet 12-18-2001 Print Name David Goodlet
Signature Date

20. ISI Engineer Alan Morrow 12/20/01 Print Name Alan Morrow
Signature Date Ramakant Indap 12-20-01
Signature Date

21. ANII Robert Hogstrom 12-20-01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08627 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2440238
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNN815JN	ADF96		00600062-2

19. Planner *David Goodlet* 12-18-01 Print Name David Goodlet
Signature Date

20. ISI Engineer *Alan Morrow* 12-20-01 Print Name Alan Morrow
Signature Date

21. ANII *Robert Hogstrom* 12-20-01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08601 2. Code Class ASME III, CLASS 2

3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1290 PSIG

4. N-5 Package Number _____ 5. W.O. Number 2440238

6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA

7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA

8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

11. Repair/Replacement Work Organization NWS Technologies

12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.

14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO

DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO

DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNN015JN	ADE21		00600062-2
SPINDLE			A19374	FROM BT-01672

19. Planner David Goodlet 12-18-01 Print Name David Goodlet
Signature Date

20. ISI Engineer Alan Morrow 12/20/01 Print Name Ramakant Indap 12-20-01
Signature Date

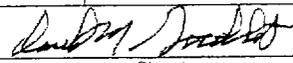
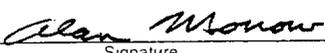
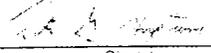
21. ANII Robert Hogstrom 12-20-01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08571 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1250 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2440238
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNNBISJN	ADE 26		00600062-2
SPRING Ass'y			H518B7916	From BT-01672

19. Planner  12-18-2001 Print Name David Goodlet
Signature Date
20. ISI Engineer  12/20/01 Print Name Alan Morrow
Signature Date Ramakant Indap 12/20/01
21. ANII  12/20/01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08578 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE: DRESSER - 3707RA-RT25 ; 1315 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2440238
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNN815JN	ADF98		00600062-2
SPINOLE	517320108414		A19374	00619307-2

19. Planner *David Goodlet* 12-18-2001 Print Name David Goodlet
Signature Date
20. ISI Engineer *Alan Morrow* 12-20-01 Print Name Alan Morrow
Signature Date Ramakant Indap 12-20-01
Signature Date
21. ANII *Robert Hogstrom* 12-20-01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08582 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
 4. N-5 Package Number _____ 5. W.O. Number 2440238
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

11. Repair/Replacement Work Organization NWS Technologies
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNNBKSJN	ADF97		00600062-2
SPRING ASSY	4138947N	92256-5-2		00594908-1
NOZZLE		ARRJ7		00600062-1

19. Planner *David Goodlet* 12-18-2001 Print Name David Goodlet
Signature Date

20. ISI Engineer *Alan Morrow* 12-20-01 Print Name Alan Morrow
Signature Date

21. ANII *Robert Hogstrom* 12-20-01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BY14539 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1250 PSIG
 4. N-5 Package Number _____ 5. W.O. Number 2440238
 6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

 9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

 11. Repair/Replacement Work Organization NWS Technologies
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., W'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNN815JN	ADE23		00600062-2
SPRING ASS'Y	4138947N	92256-5-5	8976051	00594908-1

19. Planner *David Goodlet* 12-18-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer *Alan Morrow* 12/20/01 Print Name Alan Morrow
Signature Date *Ramakant Indap* 12-20-01
Signature Date
 21. ANII *Robert Hogstrom* 12-20-01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08574 2. Code Class ASME III, CLASS 2

3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1290 PSIG

4. N-5 Package Number _____ 5. W.O. Number 2440238

6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA

7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA

8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

11. Repair/Replacement Work Organization NWS Technologies

12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.

14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNNB15JN	ADE34		0060062-2
SPRING ASS'Y	4138947N	92256-5-3		00618574-2
SPINDLE	517320108414		193321	00618574-3

19. Planner *David Goodlet* 12-18-01 Print Name David Goodlet
Signature Date

20. ISI Engineer *Alan Morrow* 12-20-01 Print Name Ramakant Indap 12-20-01
Signature Date

21. ANII *Robert Hogstrom* _____ Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BT01676 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1290 PSIG
 4. N-5 Package Number _____ 5. W.O. Number 2440238
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

 9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

 11. Repair/Replacement Work Organization NWS Technologies
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNN B15JN	ADE25		00600062-2
SPINDLE	517320105414		A19734	00600062-3

19. Planner *David Goodlet* 12-13-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer *Alan Morrow* 12/20/01 Print Name Alan Morrow
Signature Date *Ramakant Indap* 12-20-01
Signature Date
 21. ANII *Robert Hogstrom* 12/20/01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS 08572 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1250 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2440238
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
-
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
-
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNNBFSJN	ADEZ7		00600062-2

19. Planner *David M Goodlet* 12-18-2001 Print Name David Goodlet
Signature Date
20. ISI Engineer *Alan Morrow* 12/20/01 Print Name Alan Morrow
Signature Date Ramakant Indap 12/20/01
21. ANII *Robert Hogstrom* 12-27-01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08609 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2440238
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNN815JN	ADE20		00600062-2

19. Planner *David Goodlet* 12-18-2001 Print Name David Goodlet
Signature Date
20. ISI Engineer *Alan Morrow* 12-20-01 Print Name Alan Morrow
Signature Date Ramakant Indap 12-20-01
21. ANII *Robert Hogstrom* Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08613 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2440238
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNNB15JN	ADE39		00600062-2
NOZZLE	412AB020S414	ABC43	93261	00618578-1
SPINDLE	51732010S414		A19374	PO 33207018-21

19. Planner *David M. Goodlet* 12-18-2001 Print Name David Goodlet
Signature Date
20. ISI Engineer *Alan Morrow* 12-20-01 Print Name Alan Morrow
Signature Date *Ramakant Indap* 12-20-01
Signature Date
21. ANII *Robert Hogstrom* 12-20-01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS08575 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1290 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2440238
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNN815JN	ADE35		00600062-2

19. Planner *David Goodlet* 12-18-2001 Print Name David Goodlet
Signature Date
20. ISI Engineer *Alan Morrow* 12-20-01 Print Name Alan Morrow
Signature Date ~~Ramakant Indap~~ 12-20-01
21. ANII *Robert Hogstrom* 12/20/01 Print Name Robert Hogstrom
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS 08569 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1250 PSIG
 4. N-5 Package Number _____ 5. W.O. Number 2440238
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

 9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

 11. Repair/Replacement Work Organization NWS Technologies
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 12/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required YES NO
DMG 12/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 12/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 12/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
DISC	WNNBJSJN	ADEZA		00600062-2
SPRING ASS'Y	4138947N	92256-5-4		00618574-2
SPINDLE	517220105414		193321	00618574-3

19. Planner *David M Goodlet* 12-18-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer *Alan Morrow* 12-20-01 Print Name Alan Morrow
Signature Date Ramakant Indap 12/20/01
 21. ANII *Robert Hogstrom* 12-20-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 12/05/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 5
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2440238
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
131 Venture Blvd., Spartanburg, S.C., 29301 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Disc	Dresser	ADE22	n/a	BS08624	2002	Replacement	No
Spring Ass'y	Dresser	92256-5-1	n/a	BS08624	2002	Replacement	No
Disc	Dresser	ADF96	n/a	BS08627	2002	Replacement	No
Disc	Dresser	ADE21	n/a	BS08601	2002	Replacement	No
Spindle	Dresser	n/a	n/a	BS08601	2002	Replacement	No
Disc	Dresser	ADE26	n/a	BS08571	2002	Replacement	No
Spring Ass'y	Dresser	n/a	n/a	BS08571	2002	Replacement	No

7. Description of Work Off-Site overhaul and testing of spare Main Steam safety valves.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 12/05/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 2 of 5
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2440238
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
131 Venture Blvd., Spartanburg, S.C., 29301 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Disc	Dresser	ADF98	n/a	BS08578	2002	Replacement	No
Spindle	Dresser	n/a	n/a	BS08578	2002	Replacement	No
Disc	Dresser	ADF97	n/a	BS08582	2002	Replacement	No
Spring Ass'y	Dresser	92256-5-2	n/a	BS08582	2002	Replacement	No
Nozzle	Dresser	AAJ17	n/a	BS08582	2002	Replacement	No
Disc	Dresser	ADE23	n/a	BY14539	2002	Replacement	No
Spring Ass'y	Dresser	92256-5-5	n/a	BY14539	2002	Replacement	No

7. Description of Work Off-Site overhaul and testing of spare Main Steam safety valves.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 12/05/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 3 of 5
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2440238
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
131 Venture Blvd., Spartanburg, S.C., 29301 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Disc	Dresser	ADE34	n/a	BS08574	2002	Replacement	No
Spindle	Dresser	n/a	n/a	BS08574	2002	Replacement	No
Spring Ass'y	Dresser	92256-5-3	n/a	BS08574	2002	Replacement	No
Disc	Dresser	ADE25	n/a	BT01676	2002	Replacement	No
Spindle	Dresser	n/a	n/a	BT01676	2002	Replacement	No
Disc	Dresser	ADE27	n/a	BS08572	2002	Replacement	No
Disc	Dresser	ADE20	n/a	BS08609	2002	Replacement	No

7. Description of Work Off-Site overhaul and testing of spare Main Steam safety valves.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 12/05/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 4 of 5
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2440238
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
131 Venture Blvd., Spartanburg, S.C., 29301 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Disc	Dresser	ADE39	n/a	BS08613	2002	Replacement	No
Spindle	Dresser	n/a	n/a	BS08613	2002	Replacement	No
Nozzle	Dresser	AB043	n/a	BS08613	2002	Replacement	No
Disc	Dresser	ADE35	n/a	BS08575	2002	Replacement	No
Disc	Dresser	ADE24	n/a	BS08569	2002	Replacement	No
Spring Ass'y	Dresser	92256-5-4	n/a	BS08569	2002	Replacement	No
Spindle	Dresser	n/a	n/a	BS08569	2002	Replacement	No

7. Description of Work Off-Site overhaul and testing of spare Main Steam safety valves.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Work Order# 2440238 for disassembly, inspection and reconditioning of spare Main Steam safety valves. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed, based upon inspection. These parts will be obtained from other spare valves or from vendor purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Prokop, Consulting Metallurgical Engineer Date 3/27/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 12-27-01 to 3-27-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Prokop Commissions NS 9685 AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 3-27-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0201 2. Code Class ASME III, CLASS 1
 3. Item Description PRESSURIZER SAFETY VALVE; DRESSER 31709N; 2460 PSIG
 4. N-5 Package Number 2RC03-2 5. W.O. Number 2440242
 6. Original Construction Code Edition ASME III CLASS 1, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 1, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description OFF SITE TESTING AND REWORK PER WORK ORDER 2440242.

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING: THE REPLACEMENT VALVE IS
SN#BS08565. REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization NWS
 12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 1, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 1, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
MBN 01/30/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 01/30/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 01/30/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 01/30/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0201	N/A	BS-08565	N/A	
NOZZLE		ABC-64		PO# 33207018

19. Planner Michael B. Newell 1-31-02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer Ramakant Indap 1-31-02 Print Name RAMAKANT INDAP
Signature Date
 21. ANII Robert Hogstrom 1-31-02 Print Name ROBERT HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 01/31/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2440242
Address Work Order Number

3. Work Performed by NWS TECHNOLOGY Type Code Symbol Stamp None
Name
131 Venture Boulevard, Spartanburg, SC Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC: Reactor Coolant System

5. (a) Applicable Construction Code ASME Sec III, Cl 1 19 74 Edition, S'75 Addenda. Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-VALVE	DRESSER	BS08565	N/A	PSV-201	'78	Replacement	Yes
NOZZLE	DRESSER	ABC-64	N/A		'02	Replacement	No

7. Description of Work OFF-SITE VENDOR VALVE OVERHAUL & TESTING

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 2440242 FOR SPARE VALVE, 2JRCEPSV0201, IS BEING SENT TO A OFF-SITE VENDOR FOR OVERHAUL AND TESTING. S/N# BS08565.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature], Consulting Metallurgical Engineer Date 3/27/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-31-02 to 3-27-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NS 2685 AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 3-27-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01D 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP.
 4. N-5 Package Number 2RC02-4 5. W.O. Number 2444967
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE SEAL HOUSING, ADAPTER SEAL HOUSING (TOP HAT), III STAGE SEAL RETAINER, SEAL HOUSING STUDS AND NUTS TO SUPPORT SHAFT REPLACEMENT PER ENGINEERING DFWO 2445433..

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
ABOVE ITEMS ARE BEING REPLACED FOR EASE OF INSTALLATION TO SUPPORT SHAFT REPLACEMENT AND NO FAILURE INVOLVED PER DFWO#2445433.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 02/02/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 02/02/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 02/02/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 02/02/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEAL HOUSING	8000-300-001	A005	536681-18	N/A
ADAPTER SEAL HS	8000-300-002	Q99-A861 SN 7		N/A
III SEAL RETAINER	1663509	Q95-1876 SN 11		N/A
SEAL HS STUD	8000-300-026	A151		N/A
SEAL HS STUD	8000-300-026	A178		N/A
SEAL HS STUD	8000-300-026	A143		N/A
SEAL HS STUD	8000-300-026	B172		N/A
SEAL HS STUD	8000-300-026	A171		N/A

19. Planner Michael B. Newell 02/02/02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Tindal 2/13/02 Print Name R. P. TINDAL
Signature Date
 21. ANII R. G. Houston 2-13-02 Print Name R. G. HOUSTON
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01D 2. Code Class ASME SECTION III CLASS I
 3. Item Description REACTOR COOLANT PUMP.
 4. N-5 Package Number 2RC02-4 5. W.O. Number 2444967
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE SEAL HOUSING, ADAPTER SEAL HOUSING (TOP HAT), III STAGE SEAL RETAINER, SEAL HOUSING STUDS AND NUTS TO SUPPORT SHAFT REPLACEMENT PER ENGINEERING DFWO 2445433.

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
ABOVE ITEMS ARE BEING REPLACED FOR EASE OF INSTALLATION TO SUPPORT SHAFT REPLACEMENT AND NO FAILURE INVOLVED PER DFWO#2445433.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 02/02/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 02/02/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 02/02/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 02/02/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEAL HS STUD	8000-300-026	A176		N/A
SEAL HS STUD	8000-300-026	A137		N/A
SEAL HS STUD	8000-300-026	B171		N/A
SEAL HS STUD	8000-300-026	A131		N/A
SEAL HS STUD	8000-300-026	A129		N/A
SEAL HS STUD	8000-300-026	A172		N/A
SEAL HS STUD	8000-300-026	A156		N/A
SEAL HS STUD	8000-300-026	A191		N/A

19. Planner Michael B. Newell 02/02/02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 2/13/02 Print Name R. P. INDAP
Signature Date
 21. ANII R. C. Hougstrom 2-13-02 Print Name R. C. HOUGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01D 2. Code Class ASME SECTION III CLASS I

3. Item Description REACTOR COOLANT PUMP.

4. N-5 Package Number 2RC02-4 5. W.O. Number 2444967

6. Original Construction Code Edition 1974 EDITION

7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA

8. Work Description REPLACE SEAL HOUSING, ADAPTER SEAL HOUSING (TOP HAT), III STAGE SEAL RETAINER, SEAL HOUSING STUDS AND NUTS TO SUPPORT SHAFT REPLACEMENT PER ENGINEERING DFWO 2445433..

9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
ABOVE ITEMS ARE BEING REPLACED FOR EASE OF INSTALLATION TO SUPPORT SHAFT REPLACEMENT AND NO FAILURE INVOLVED PER DFWO#2445433.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA.

14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 02/02/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 02/02/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 02/02/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 02/02/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEAL HS STUD	8000-300-026	A165		N/A
SEAL HS STUD	8000-300-026	B165		N/A
SEAL HS STUD	8000-300-026	A160		N/A
THRUST RING	1663741	Q01-1918 SN 1		N/A
SEAL COOLER	8000-300-004	1-5095 SN 3		N/A
				N/A
				N/A
				N/A

19. Planner Michael B. Newell 02/02/02 Print Name MICHAEL B. NEWELL
Signature Date

20. ISI Engineer R.P. Indap 2/13/02 Print Name R.P. INDAP
Signature Date

21. ANII R.G. Houston 2-13-02 Print Name R.G. HOUSTON
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01D 2. Code Class ASME SECTION III CLASS I

3. Item Description REACTOR COOLANT PUMP.

4. N-5 Package Number 2RC02-4 5. W.O. Number 2444967

6. Original Construction Code Edition 1974 EDITION

7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA

8. Work Description REPLACE SEAL HOUSING, ADAPTER SEAL HOUSING (TOP HAT), III STAGE SEAL RETAINER, SEAL HOUSING STUDS AND NUTS TO SUPPORT SHAFT REPLACEMENT PER ENGINEERING DFWO 2445433..

9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
ABOVE ITEMS ARE BEING REPLACED FOR EASE OF INSTALLATION TO SUPPORT SHAFT REPLACEMENT AND NO FAILURE INVOLVED PER DFWO#2445433.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA.

14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 02/02/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 02/02/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 02/02/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 02/02/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEAL HS NUT	8000-300-027	B110		N/A
SEAL HS NUT	8000-300-027	A149		N/A
SEAL HS NUT	8000-300-027	B104		N/A
SEAL HS NUT	8000-300-027	A145		N/A
SEAL HS NUT	8000-300-027	A162		N/A
SEAL HS NUT	8000-300-027	A182		N/A
SEAL HS NUT	8000-300-027	A156		N/A
SEAL HS NUT	8000-300-027	B102		N/A

19. Planner *Michael B. Newell* 02/02/02 Print Name MICHAEL B. NEWELL
Signature Date

20. ISI Engineer *R.P. Indap* 2/13/02 Print Name R. P. INDAP
Signature Date

21. ANII *R.G. Houston* 2-13-02 Print Name R. G. HOUSTON
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01D 2. Code Class ASME SECTION III CLASS I
 3. Item Description REACTOR COOLANT PUMP.
 4. N-5 Package Number 2RC02-4 5. W.O. Number 2444967
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE SEAL HOUSING, ADAPTER SEAL HOUSING (TOP HAT), III STAGE SEAL RETAINER, SEAL HOUSING STUDS AND NUTS TO SUPPORT SHAFT REPLACEMENT PER ENGINEERING DFWO 2445433..

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
ABOVE ITEMS ARE BEING REPLACED FOR EASE OF INSTALLATION TO SUPPORT SHAFT REPLACEMENT AND NO FAILURE INVOLVED PER DFWO#2445433.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 02/02/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 02/02/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 02/02/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 02/02/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEAL HS NUT	8000-300-027	A 147		N/A
SEAL HS NUT	8000-300-027	B 020		N/A
SEAL HS NUT	8000-300-027	B 109		N/A
SEAL HS NUT	8000-300-027	B 119		N/A
SEAL HS NUT	8000-300-027	B 026		N/A
SEAL HS NUT	8000-300-027	A 185		N/A
SEAL HS NUT	8000-300-027	B 031		N/A
SEAL HS NUT	8000-300-027	B 028		N/A

19. Planner Michael B. Newell 02/02/02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.P. Indap 2/13/02 Print Name R.P. INDAP
Signature Date
 21. ANII R.G. Houston 2-13-02 Print Name R.G. Houston
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/02/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 27
Address 12/13

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2444967
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. WINTERSBURG RD. TONOPAH 85354 Expiration Date N/A
Address

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
ADAPTER SEAL	SULZER	<u>SN 7</u>	N/A	2MRCEP01D	1985	Replacement	Yes
HOUSING	BINGHAM						
3RD STAGE SEAL	SULZER	<u>SN 11</u>	N/A	2MRCEP01D	1985	Replacement	Yes
RETAINER	BINGHAM						
SEAL HOUSING	WESTINGHOUSE	<u>A005</u>	N/A	2MRCEP01D	1985	Replacement	Yes
SEAL HS STUD	WESTINGHOUSE	<u>N/A</u>	N/A	2MRCEP01D	1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE	<u>N/A</u>	N/A	2MRCEP01D	1985	Replacement	No

12/13 - 11/15/02 (DATE INSTALLED)

7. Description of Work REACTOR COOLANT PUMP SHAFT REPLACEMENT IS REQUIRED.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure 2250 psi ^{12/13} ~~1150~~ Test Temp. 565 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/02/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 12 of 27
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2444967
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
SEAL HS STUD	WESTINGHOUSE	<i>N</i>	N/A	2MRCEP01D	1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE	<i>A</i>	N/A	2MRCEP01D	1985	Replacement	No

7. Description of Work REACTOR COOLANT PUMP SHAFT REPLACEMENT IS REQUIRED.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure 2250 psi 126.13 Test Temp. 565 °F
4/15/02

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/02/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 3 of 7
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2444967
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
SEAL HS STUD	WESTINGHOUSE	N A	N/A	2MRCEP01D	2002 1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	2002 1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	2002 1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	2002 1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	2002 1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	2002 1985	Replacement	No
SEAL HS STUD	WESTINGHOUSE		N/A	2MRCEP01D	2002 1985	Replacement	No

7. Description of Work REACTOR COOLANT PUMP SHAFT REPLACEMENT IS REQUIRED.
*12L13
4-15-02 (INSTALLED DATA)*

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure 2250 psi *12L13* Test Temp. 565 °F
4-15-02

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/02/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 7 of 7
Address REP 4-15-02

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2444967
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
SEAL HS NUT	WESTINGHOUSE	<i>N</i>	N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE	<i>A</i>	N/A	2MRCEP01D	1985	Replacement	No

7. Description of Work REACTOR COOLANT PUMP SHAFT REPLACEMENT IS REQUIRED.
REP 4-15-02 (INSTALLED DATE)

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure 2250 psi *12 LB* Test Temp. 565 °F
4-15-02

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/02/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 5 ²²¹ 1
Address _{+ of 2}

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2444967
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
SEAL HS NUT	WESTINGHOUSE	N A	N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No
SEAL HS NUT	WESTINGHOUSE		N/A	2MRCEP01D	1985	Replacement	No

7. Description of Work REACTOR COOLANT PUMP SHAFT REPLACEMENT IS REQUIRED. *122 B
4-1502 (UNSTALLED DATA)*

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure 2250 psi ^{122 B} ₄₋₁₅₀₂ Test Temp. 565 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/02/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 6 of 7
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2444967
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

12.13-1-15-02

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)	
SEAL HS NUT	WESTINGHOUSE	<i>N/A</i>	N/A	2MRCEP01D	1985	Replacement	No	
SEAL HS NUT	WESTINGHOUSE	<i>A</i>	N/A	2MRCEP01D	1985	Replacement	No	
THRUST RING	<i>SULZER</i>	<i>SN-1</i>	<i>N/A</i>	<i>2MRCEP01D</i>	<i>2002</i>	Replacement	No	
SEAL COOLER	<i>WESTINGHOUSE (WESTERN PIPING)</i>	<i>SN-3</i>	<i>N/A</i>	<i>2MRCEP01D</i>	<i>2002</i>	Replacement	No <i>Yes</i>	
_____							Replacement	No
_____							Replacement	No
_____							Replacement	No

7. Description of Work REACTOR COOLANT PUMP SHAFT REPLACEMENT IS REQUIRED.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure 2250 psi *12.13-1-15-02* Test Temp. 565 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O#2444967 SEAL HOUSING ASSEMBLY IS BEING CHANGE OUT TO SUPPORT
SHAFT REPLACEMENT THIS INCLUDES (SEAL HOUSING, III STAGE COVER (TOP
HAT), III STAGE SEAL RETAINER, SEAL HOUSING STUDS, AND NUTS) 2MRCEP01D.
MANUFACTURER WESTINGHOUSE FORMERLY C. E.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed RL BAZZUCCHI RLB 151 EAGLE Date 4-15-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by 4-5-02 HSBI & I CO. HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-13-02 to 4-15-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. S. [Signature] Commissions NB 9685 "ANIC" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date April 15, 2002

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2RC119H00A and 2RC119H00B 2. Code Class ASME Section III Class NF
 3. Item Description U-Bolt, Item 16
 4. N-5 Package Number 2RC02-1 5. W.O. Number 2444967
 6. Original Construction Code Edition 1974 Edition, Winter '75 Addenda
 7. Original Installation Code Edition 1974 Edition, Winter '75 Addenda
 8. Work Description Replacement of U-Bolts damaged during disassembly.

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Replacement is due to damage during disassembly.
No failure is involved.

11. Repair/Replacement Work Organization Arizona Public Service
 12. Replacement Item Construction or reconciled Code/Edition 1974 Edition, Winter '75 Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME III 1974 Edition, Winter '75 Addenda
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. YES NO
AF 04/02/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
AF 04/02/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
AF 04/02/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
AF 04/02/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2RC119H00A				
U-Bolt, Item 16	APN 43140201	N/A	N/A	00635192-1
2RC119H00B				
U-Bolt, Item 16	APN 43140201	N/A	N/A	00635192-1

19. Planner Allan Foote 04/02/02 Print Name Allan Foote
Signature Date
 20. ISI Engineer R. G. Hogstrom 4/3/02 Print Name R. G. HOGSTROM
Signature Date
 21. ANII R. G. Hogstrom 4-3-02 Print Name R. G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 04/02/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2444967
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd. Tonopah Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System RC

5. (a) Applicable Construction Code ASME III Class NF 19 74 Edition, W' 75 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
U-Bolt, Item 16	Grinnell Corp.	N/A	N/A	2RC119H00A	2002	Replacement	No
U-Bolt, Item 16	Grinnell Corp.	N/A	N/A	2RC119H00B	2002	Replaccment	No

7. Description of Work Replace U-bolts damaged during disassembly.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO 2444967 for U-Bolt replacement damaged during disassembly.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed RL BROODING RLB ISI ENG Date 4-15-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-3-02 to 4-15-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NS 9685 "ANIC" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date April 15, 2002

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP.
 4. N-5 Package Number 2RC02-4 5. W.O. Number 2445428
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description BUILD AND INSTALL MECHANICAL SEALS TO SUPPORT RCP SHAFT REPLACEMENT.

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
MECHANICAL SEAL REPLACEMENT IS REQUIRED TO SUPPORT RCP SHAFT REPLACEMENT, NO FAILURE INVOLVED PER DFWO#2445433.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 02/02/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 02/02/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 02/02/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 02/02/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
III SEAL RETAINER	1663509	095-1876 SN2A		N/A

19. Planner *Michael B. Newell* 02/02/02 Print Name MICHAEL B. NEWELL
Signature Date

20. ISI Engineer *R. P. Findap* 2/13/02 Print Name R. P. FINDAP
Signature Date

21. ANII *R. G. Hagstrom* 2-13-02 Print Name R. G. HAGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/02/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2445428
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S WINTERSBURG RD TONOPAH AZ 85354 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
III STAGE SEAL	SULZER	945-1876	N/A	2MRCEP01B	1985	Replacement	Yes
RETAINER	BINGHAM	SN-2A					

7. Description of Work REPLACEMENT OF III STAGE SEAL RETAINER ON RCP 1B
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
- Other Pressure 2250 psi Test Temp. 565 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks ABOVE ITEM BEING REPLACE TO SUPPORT REACTOR COOLANT PUMP SHAFT
REPLACEMENT W.O. 2445428.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: R. P. Fordy, Consulting Metallurgical Engineer Date 6-26-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-13-02 to 6-26-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Fordy Commissions NB 9685 'ASIC' AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 6-26-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01C 2. Code Class ASME SECTION III CLASS I
3. Item Description REACTOR COOLANT PUMP.
4. N-5 Package Number 2RC02-4 5. W.O. Number 2445432
6. Original Construction Code Edition 1974 EDITION
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description BUILD AND INSTALL MECHANICAL SEALS TO SUPPORT RCP SHAFT REPLACEMENT.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
MECHANICAL SEAL REPLACEMENT IS REQUIRED TO SUPPORT RCP SHAFT REPLACEMENT, NO FAILURE INVOLVED PER DFWO#2445433.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA.
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 02/02/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
MBN 02/02/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- MBN 02/02/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- MBN 02/02/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
III SEAL RETAINER	1663509	Q96-574 SN19		N/A

19. Planner *Michael B. Newell* 02/02/02 Print Name MICHAEL B. NEWELL
Signature Date
20. ISI Engineer *R. P. Indap* 2/13/02 Print Name R. P. INDAP
Signature Date
21. ANII *R. G. Hogstrom* 2-13-02 Print Name R. G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/02/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2445432
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S WINTERSBURG RD TONOPAH AZ 85354 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
III STAGE SEAL	SULZER	Q96-574-	N/A	2MRCEP01C	1985	Replacement	Yes
RETAINER	BINGHAM	SN19					

7. Description of Work REPLACEMENT OF III STAGE SEAL RETAINER ON RCP 2A
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
- Other Pressure 2250 psi Test Temp. 565 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks ABOVE ITEM BEING REPLACE TO SUPPORT REACTOR COOLANT PUMP SHAFT
REPLACEMENT W.O. 2445432.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. Forday Consulting Metallurgical Engineer Date 6-26-2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-2-02 to 6-26-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. S. Forday
Inspector's Signature

Commissions NB 9685 'ANIC' Az. 264
National Board, State, Province, and Endorsements

Date 6-26-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEB06 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2445913
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description Replace Defective Pressurizer Heater, Make Fillet Weld between Pressurizer Nozzle and new Heater Sleeve.

9. ISI Flaw NDE Method of Flaw Detection N/A
 Report Number N/A

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Electrical Portion of Heater Failed, No Failure on ASME Pressure Retaining Boundary.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Class 1,/'74 Edition, '75 Winter Addenda
 14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. YES NO
N/A was 1/16/2002 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
N/A was 1/16/2002 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

KVS 1/16/2002 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
KVS 1/16/2002 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Heater	44450049	425		612048-001

19. Planner Karl V. Savage 1/15/2002 Print Name Karl V. Savage
Signature Date
 20. ISI Engineer Ramakant P. Indap 1/25/02 Print Name Ramakant P. Indap
Signature Date
 21. ANII Robert G. Hogstrom 1-25-02 Print Name Robert G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 01/09/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2445913
Address Work Order Number

3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Expiration Date N/A
Address

4. Identification of System RC, ASME Section III, Class 1

5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/73 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Heater	Watlow	42J	N/A	2MRCEB04	2002	Replacement	NO

7. Description of Work Replace Defective Pressurizer Heater, Make Fillet Weld between Pzr Nozzle and Hti

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

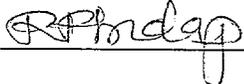
9. Remarks WO# 2445913 To Replace Pressurizer Back-Up Heater 2MRCEB06.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed  ISI Engineer Date 4/4/2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-25-02 to 4-4-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NB 9685 "N" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-4-02

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 01/15/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2445914
Address Work Order Number

3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Expiration Date N/A
Address

4. Identification of System RC, ASME Section III, Class 1

5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/73 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Heater	Watlow	78J	N/A	2MRCEB17	2002	Replacement	No

7. Description of Work Replace Defective Pressurizer Heater, Make Fillet Weld between Pzr Nozzle and Htr

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 2445914 To Replace Pressurizer Back-Up Heater 2MRCEB17.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date n/a

Signed [Signature] ISI Engineer Date 4/4/2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-25-02 to 4-4-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 9685 "N" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-4-02

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 03/08/2002
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 2
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2449867
3. Work Performed by: Arizona Public Service Type of Code Stamp None
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System: Diesel Generator Demineralized Water Supply line 2PDGBL015.
5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Winter 1975 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Jacket Water Makeup Valve	Target Rock	8 (2SMH-53)	N/A	2JDGBUV002	1978	Replacement	YES
Jacket Water Makeup Line	N/A	N/A	N/A	2PDGBL015	1981	Replacement	YES

7. Description of Work: Modify line 2PDGBL015 and replace 2JDGBUV002 with a manual operated globe valve 2PDGBV064 per DMWO#220055

8. Test Conducted: Hydrostatic Pneumatic ~~Nominal Operating Pressure~~ Exempt N-416-1
 Other Pressure _____ psi Test Temperature _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

FORM NIS-2 (Back)

Remarks:

W.O. 2449867

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A _____

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

Signed: Alan Monow FSI Engineer Date: 4/6/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-14-02 to 4-6-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robt D. Ingham

Inspectors Signature

Commissions NB 2685 ANIC AZ 264
National Board, State, Province, and Endorsements

Date: 4-6-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01A 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #1
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2454811
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01A ^{COLD LEG} HOT LEG TUBES PER ENG-DFWO 2451667
EVALUATION AND DISPOSITION.

9. ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 2R10 EDDY CURRENT EXAM REPORT.

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2451667.

11. Repair/Replacement Work Organization WESTINGHOUSE
 12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992ADDENDA

15. Preservice Inspection Required. YES NO
MBN 01/22/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 01/22/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 01/22/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBN 01/22/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Michael B. Newell 01/22/02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.L. Browning 1/22/02 Print Name R.L. BROWNING
Signature Date
 21. ANII R.G. Holstrom 1-22-02 Print Name R.G. HOLSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 01/22/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2454811
Address Work Order Number

3. Work Performed by WESTINGHOUSE Type Code Symbol Stamp None
Name
911 W MAIN ST CHATTANOOGA TN 37402 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT

5. (a) Applicable Construction Code ASME SEC III CL. 1 19 71 Edition, W'73 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
STEAM	COMBUSTION	79273-1	22478	2MRCBE01A	1979	Replacement	Yes
GENERATOR	ENGINEERING						

7. Description of Work PLUG STEAM GENERATOR HOT LEG TUBES PER DIWO 2451667

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE DFWO 2451667 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed  Date 4-11-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-22-02 to 4-11-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NS 9685 "ANIC" Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-11-02

STEAM GENERATOR 2MRCEE01A

"COLD LEG"

WORK ORDER 2451667

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01A R80/C25	0307-1601	7269	J-9161-1	521386
2MRCEE01A R45/C28	0307-1601	7264	J-9161-1	521386
2MRCEE01A R112/C31	0307-1601	9560	J-9162-2	81349
2MRCEE01A R56/C33	0307-1601	9579	J-9162-2	81349
2MRCEE01A R77/C34	0307-1601	9580	J-9162-2	81349
2MRCEE01A R106/C35	0307-1601	9565	J-9162-2	81349
2MRCEE01A R120/C35	0307-1601	9599	J-9162-2	81349
2MRCEE01A R107/C36	0307-1601	9558	J-9162-2	81349
2MRCEE01A R98/C37	0307-1601	9577	J-9162-2	81349
2MRCEE01A R122/C39	0307-1601	9587	J-9162-2	81349
2MRCEE01A R118/C41	0307-1601	9595	J-9162-2	81349
2MRCEE01A R124/C41	0307-1601	9586	J-9162-2	81349
2MRCEE01A R113/C42	0307-1601	9567	J-9162-2	81349
2MRCEE01A R98/C43	0307-1601	9576	J-9162-2	81349
2MRCEE01A R108/C43	0307-1601	9559	J-9162-2	81349
2MRCEE01A R132/C43	0307-1601	9592	J-9162-2	81349
2MRCEE01A R93/C44	0307-1601	9578	J-9162-2	81349
2MRCEE01A R117/C44	0307-1601	9850	J-9162-2	81349
2MRCEE01A R133/C44	0307-1601	9594	J-9162-2	81349
2MRCEE01A R118/C45	0307-1601	9597	J-9162-2	81349
2MRCEE01A R120/C45	0307-1601	9598	J-9162-2	81349
2MRCEE01A R119/C46	0307-1601	7252	J-9161-1	521386
2MRCEE01A R130/C47	0307-1601	9585	J-9162-2	81349
2MRCEE01A R71/C48	0307-1601	9563	J-9162-2	81349

STEAM GENERATOR 2MRCEE01A
"COLD LEG"

WORK ORDER 2451667

2MRCEE01A R128/C49	0307-1601	9600	J-9162-2	81349
2MRCEE01A R111/C50	0307-1601	10347	J-9162-5	633991
2MRCEE01A R100/C51	0307-1601	9575	J-9162-2	81349
2MRCEE01A R101/C52	0307-1601	9566	J-9162-2	81349
2MRCEE01A R72/C53	0307-1601	9574	J-9162-2	81349
2MRCEE01A R110/C53	0307-1601	9596	J-9162-2	81349
2MRCEE01A R120/C53	0307-1601	9588	J-9162-2	81349
2MRCEE01A R119/C54	0307-1601	9591	J-9162-2	81349
2MRCEE01A R52/C55	0307-1601	9569	J-9162-2	81349
2MRCEE01A R104/C55	0307-1601	7255	J-9161-1	521386
2MRCEE01A R126/C55	0307-1601	9593	J-9162-2	81349
2MRCEE01A R61/C56	0307-1601	10385	J-9162-5	633991
2MRCEE01A R98/C57	0307-1601	7256	J-9161-1	521386
2MRCEE01A R144/C57	0307-1601	9571	J-9162-2	81349
2MRCEE01A R124/C59	0307-1601	9589	J-9162-2	81349
2MRCEE01A R132/C59	0307-1601	9590	J-9162-2	81349
2MRCEE01A R109/C60	0307-1601	7253	J-9161-1	521386
2MRCEE01A R36/C65	0307-1601	9572	J-9162-2	81349
2MRCEE01A R67/C66	0307-1601	9564	J-9162-2	81349
2MRCEE01A R127/C66	0307-1601	9584	J-9162-2	81349
2MRCEE01A R151/C66	0307-1601	10371	J-9162-5	633991
2MRCEE01A R132/C67	0307-1601	9582	J-9162-2	81349
2MRCEE01A R127/C68	0307-1601	9581	J-9162-2	81349
2MRCEE01A R110/C69	0307-1601	9583	J-9162-2	81349
2MRCEE01A R63/C70	0307-1601	9562	J-9162-2	81349

STEAM GENERATOR 2MRCEE01A
"COLD LEG"

WORK ORDER 2451667

2MRCEE01A R41/C72	0307-1601	9573	J-9162-2	81349
2MRCEE01A R65/C72	0307-1601	9568	J-9162-2	81349
2MRCEE01A R131/C72	0307-1601	9206	J-9161-5	81349
2MRCEE01A R141/C72	0307-1601	7267	J-9161-1	521386
2MRCEE01A R126/C73	0307-1601	9204	J-9161-5	81349
2MRCEE01A R28/C77	0307-1601	9570	J-9162-2	81349
2MRCEE01A R146/C77	0307-1601	9210	J-9161-5	81349
2MRCEE01A R147/C78	0307-1601	9209	J-9161-5	81349
2MRCEE01A R157/C78	0307-1601	9208	J-9161-5	81349
2MRCEE01A R120/C79	0307-1601	9207	J-9161-5	81349
2MRCEE01A R30/C81	0307-1601	10350	J-9162-5	633991
2MRCEE01A R55/C82	0307-1601	9561	J-9162-2	81349
2MRCEE01A R118/C85	0307-1601	9205	J-9161-5	81349
2MRCEE01A R72/C87	0307-1601	10389	J-9162-5	633991
2MRCEE01A R76/C87	0307-1601	10375	J-9162-5	633991
2MRCEE01A R137/C88	0307-1601	9203	J-9161-5	81349
2MRCEE01A R82/C89	0307-1601	10368	J-9162-5	633991
2MRCEE01A R83/C90	0307-1601	10391	J-9162-5	633991
2MRCEE01A R145/C90	0307-1601	9202	J-9161-5	81349
2MRCEE01A R76/C91	0307-1601	10387	J-9162-5	633991
2MRCEE01A R82/C91	0307-1601	10382	J-9162-5	633991
2MRCEE01A R124/C91	0307-1601	10388	J-9162-5	633991
2MRCEE01A R119/C92	0307-1601	7266	J-9161-1	521386
2MRCEE01A R90/C93	0307-1601	7265	J-9161-1	521386
2MRCEE01A R71/C94	0307-1601	10390	J-9162-5	633991

STEAM GENERATOR 2MRCEE01A
"COLD LEG"

WORK ORDER 2451667

2MRCEE01A R83/C94	0307-1601	10381	J-9162-5	633991
2MRCEE01A R147/C94	0307-1601	9201	J-9161-5	81349
2MRCEE01A R44/C95	0307-1601	10376	J-9162-5	633991
2MRCEE01A R43/C96	0307-1601	10370	J-9162-5	633991
2MRCEE01A R129/C96	0307-1601	7268	J-9161-1	521386
2MRCEE01A R72/C97	0307-1601	10373	J-9162-5	633991
2MRCEE01A R43/C98	0307-1601	10377	J-9162-5	633991
2MRCEE01A R85/C98	0307-1601	7270	J-9161-1	521386
2MRCEE01A R74/C101	0307-1601	10372	J-9162-5	633991
2MRCEE01A R144/C105	0307-1601	7263	J-9161-1	521386
2MRCEE01A R151/C106	0307-1601	7262	J-9161-1	521386
2MRCEE01A R68/C109	0307-1601	10336	J-9162-5	633991
2MRCEE01A R140/C109	0307-1601	7261	J-9161-1	521386*
2MRCEE01A R146/C111	0307-1601	7259	J-9161-1	521386
2MRCEE01A R27/C114	0307-1601	10339	J-9162-5	633991
2MRCEE01A R137/C116	0307-1601	7258	J-9161-1	521386
2MRCEE01A R38/C119	0307-1601	10338	J-9162-5	633991
2MRCEE01A R62/C119	0307-1601	10337	J-9162-5	633991
2MRCEE01A R134/C119	0307-1601	7257	J-9161-1	521386
2MRCEE01A R144/C119	0307-1601	7260	J-9161-1	521386
2MRCEE01A R142/C121	0307-1601	10335	J-9162-5	633991
2MRCEE01A R148/C121	0307-1601	10333	J-9162-5	633991
2MRCEE01A R59/C122	0307-1601	10344	J-9162-5	633991
2MRCEE01A R137/C122	0307-1601	10340	J-9162-5	633991
2MRCEE01A R141/C122	0307-1601	10369	J-9162-5	633991

STEAM GENERATOR 2MRCEE01A

"COLD LEG"

WORK ORDER 2451667

2MRCEE01A R151/C122	0307-1601	10374	J-9162-5	633991
2MRCEE01A R60/C123	0307-1601	10334	J-9162-5	633991
2MRCEE01A R149/C124	0307-1601	10386	J-9162-5	633991
2MRCEE01A R108/C125	0307-1601	10383	J-9162-5	633991
2MRCEE01A R37/C126	0307-1601	10345	J-9162-5	633991
2MRCEE01A R147/C126	0307-1601	10380	J-9162-5	633991
2MRCEE01A R92/C129	0307-1601	10326	J-9162-5	633991
2MRCEE01A R119/C132	0307-1601	10384	J-9162-5	633991
2MRCEE01A R77/C136	0307-1601	10323	J-9162-5	633991
2MRCEE01A R111/C136	0307-1601	10324	J-9162-5	633991
2MRCEE01A R78/C137	0307-1601	10349	* J-9162-5	633991
2MRCEE01A R120/C137	0307-1601	10332	J-9162-5	633991
2MRCEE01A R75/C138	0307-1601	10348	J-9162-5	633991
2MRCEE01A R77/C138	0307-1601	40010126-274	J-9162-1	633991
2MRCEE01A R121/C138	0307-1601	10327	J-9162-5	633991
2MRCEE01A R118/C139	0307-1601	10325	J-9162-5	633991
2MRCEE01A R120/C141	0307-1601	10328	J-9162-5	633991
2MRCEE01A R112/C145	0307-1601	10341	J-9162-5	633991
2MRCEE01A R103/C146	0307-1601	10329	J-9162-5	633991
2MRCEE01A R107/C146	0307-1601	10342	J-9162-5	633991
2MRCEE01A R87/C148	0307-1601	10330	J-9162-5	633991
2MRCEE01A R95/C148	0307-1601	10331	J-9162-5	633991
2MRCEE01A R89/C150	0307-1601	40010126-275	J-9162-1	633991
2MRCEE01A R101/C150	0307-1601	10346	J-9162-5	633991
2MRCEE01A R107/C152	0307-1601	40010126-276	J-9162-1	633991

STEAM GENERATOR 2MRCEE01A

"COLD LEG"

WORK ORDER 2451667

2MRCEE01A R101/C160	0307-1601	10343	J-9162-5	633991
2MRCEE01A R80/C175	0307-1601	10379	J-9162-5	633991
2MRCEE01A R76/C177	0307-1601	10378	J-9162-5	633991

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01A 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #1
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2454816
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01A HOT LEG TUBES PER ENG-DFWO 2451669
EVALUATION AND DISPOSITION.

9. ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 2R10 EDDY CURRENT EXAM REPORT.

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2451669.

11. Repair/Replacement Work Organization WESTINGHOUSE
 12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992ADDENDA

15. Preservice Inspection Required. YES NO
MBW 01/22/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBW 01/22/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBW 01/22/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBW 01/22/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM ID.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Michael B. Newell 01/22/02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.L. Browning 1/22/02 Print Name R.L. BROWNING
Signature Date
 21. ANII R.G. Houston 1-22-02 Print Name R.G. HOUSTON
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 01/22/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2454816
Address Work Order Number

3. Work Performed by WESTINGHOUSE Type Code Symbol Stamp None
Name
911 W MAIN ST CHATTANOOGA TN 37402 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT

5. (a) Applicable Construction Code ASME SEC III CL. 1 19 71 Edition, W'73 Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
STEAM	COMBUSTION	79273-1	22478	2MRCEE01A	1979	Replacement	Yes
GENERATOR	ENGINEERING						

7. Description of Work PLUG STEAM GENERATOR HOT LEG TUBES PER DIWO 2451669

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE DFWO 2451669 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

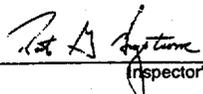
Certificate of Authorization No. N/A Expiration Date N/A

Signed  Date 4-11-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-22-02 to 4-11-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NB 9685 "ANIC" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-11-02

**STEAM GENERATOR 2MRCEE01A
"HOT LEG"**

WORK ORDER 2451669

ASME SECTION XI-REPAIR/REPLACEMENT

COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01A R80/C25	0307-1601	10319	J-9162-5	633991
2MRCEE01A R45/C28	0307-1601	9261	J-9161-5	81349
2MRCEE01A R112/C31	0307-1601	9263	J-9161-5	81349
2MRCEE01A R56/C33	0307-1601	40010126-369	J-9162-1	633991
2MRCEE01A R77/C34	0307-1601	9272	J-9161-5	81349
2MRCEE01A R106/C35	0307-1601	9280	J-9161-5	81349
2MRCEE01A R120/C35	0307-1601	9279	J-9161-5	81349
2MRCEE01A R107/C36	0307-1601	9269	J-9161-5	81349
2MRCEE01A R98/C37	0307-1601	9271	J-9161-5	81349
2MRCEE01A R122/C39	0307-1601	9276	J-9161-5	81349
2MRCEE01A R118/C41	0307-1601	9275	J-9161-5	81349
2MRCEE01A R124/C41	0307-1601	9259	J-9161-5	81349
2MRCEE01A R113/C42	0307-1601	9260	J-9161-5	81349
2MRCEE01A R98/C43	0307-1601	10303	J-9162-5	633991
2MRCEE01A R108/C43	0307-1601	9268	J-9161-5	81349
2MRCEE01A R132/C43	0307-1601	9262	J-9161-5	81349
2MRCEE01A R93/C44	0307-1601	9273	J-9161-5	81349
2MRCEE01A R117/C44	0307-1601	10392	J-9162-5	633991
2MRCEE01A R133/C44	0307-1601	9267	J-9161-5	81349
2MRCEE01A R118/C45	0307-1601	10396	J-9162-5	633991
2MRCEE01A R120/C45	0307-1601	9266	J-9161-5	81349
2MRCEE01A R119/C46	0307-1601	10393	J-9162-5	633991
2MRCEE01A R130/C47	0307-1601	9265	J-9161-5	81349
2MRCEE01A R71/C48	0307-1601	9282	J-9161-5	81349

**STEAM GENERATOR 2MRCEE01A
"HOT LEG"**

WORK ORDER 2451669

2MRCEE01A R128/C49	0307-1601	10302	J-9162-5	633991
2MRCEE01A R111/C50	0307-1601	40010126-364	J-9162-1	633991
2MRCEE01A R100/C51	0307-1601	9225	J-9161-5	81349
2MRCEE01A R101/C52	0307-1601	9216	J-9161-5	81349
2MRCEE01A R72/C53	0307-1601	9278	J-9161-5	81349
2MRCEE01A R110/C53	0307-1601	10394	J-9162-5	633991
2MRCEE01A R120/C53	0307-1601	10397	J-9162-5	633991
2MRCEE01A R119/C54	0307-1601	10395	J-9162-5	633991
2MRCEE01A R52/C55	0307-1601	9277	J-9161-5	81349
2MRCEE01A R104/C55	0307-1601	9217	J-9161-5	81349
2MRCEE01A R126/C55	0307-1601	10400	J-9162-5	633991
2MRCEE01A R61/C56	0307-1601	40010126-368	J-9162-1	633991
2MRCEE01A R98/C57	0307-1601	9218	J-9161-5	81349
2MRCEE01A R144/C57	0307-1601	9264	J-9161-5	81349
2MRCEE01A R124/C59	0307-1601	10399	J-9162-5	633991
2MRCEE01A R132/C59	0307-1601	10301	J-9162-5	633991
2MRCEE01A R109/C60	0307-1601	10398	J-9162-5	633991
2MRCEE01A R36/C65	0307-1601	9234	J-9161-5	81349
2MRCEE01A R67/C66	0307-1601	9270	J-9161-5	81349
2MRCEE01A R127/C66	0307-1601	10312	J-9162-5	633991
2MRCEE01A R151/C66	0307-1601	10322	J-9162-5	633991
2MRCEE01A R132/C67	0307-1601	10314	J-9162-5	633991
2MRCEE01A R127/C68	0307-1601	10317	J-9162-5	633991
2MRCEE01A R110/C69	0307-1601	10311	J-9162-5	633991
2MRCEE01A R63/C70	0307-1601	9274	J-9161-5	81349

STEAM GENERATOR 2MRCEE01A

"HOT LEG"

WORK ORDER 2451669

2MRCEE01A R41/C72	0307-1601	9229	J-9161-5	81349
2MRCEE01A R65/C72	0307-1601	9281	J-9161-5	81349
2MRCEE01A R131/C72	0307-1601	10313	J-9162-5	633991
2MRCEE01A R141/C72	0307-1601	10315	J-9162-5	633991
2MRCEE01A R126/C73	0307-1601	10316	J-9162-5	633991
2MRCEE01A R28/C77	0307-1601	9215	J-9161-5	81349
2MRCEE01A R146/C77	0307-1601	40010126-367	J-9162-1	633991
2MRCEE01A R147/C78	0307-1601	40010126-1	J-9162-1	633991
2MRCEE01A R157/C78	0307-1601	40010126-370	J-9162-1	633991
2MRCEE01A R120/C79	0307-1601	10321	J-9162-5	633991
2MRCEE01A R30/C81	0307-1601	9250	J-9161-5	81349
2MRCEE01A R55/C82	0307-1601	9227	J-9161-5	81349
2MRCEE01A R118/C85	0307-1601	10318	J-9162-5	633991
2MRCEE01A R72/C87	0307-1601	9226	J-9161-5	81349
2MRCEE01A R76/C87	0307-1601	9230	J-9161-5	81349
2MRCEE01A R137/C88	0307-1601	40010126-20	J-9162-1	633991
2MRCEE01A R82/C89	0307-1601	9222	J-9161-5	81349
2MRCEE01A R83/C90	0307-1601	9231	J-9161-5	81349
2MRCEE01A R145/C90	0307-1601	40010126-21	J-9162-1	633991
2MRCEE01A R76/C91	0307-1601	9223	J-9161-5	81349
2MRCEE01A R82/C91	0307-1601	9224	J-9161-5	81349
2MRCEE01A R124/C91	0307-1601	40010126-16	J-9162-1	633991
2MRCEE01A R119/C92	0307-1601	10320	J-9162-5	633991
2MRCEE01A R90/C93	0307-1601	40010126-371	J-9162-1	633991
2MRCEE01A R71/C94	0307-1601	9233	J-9161-5	81349

STEAM GENERATOR 2MRCEE01A

"HOT LEG"

WORK ORDER 2451669

2MRCEE01A R83/C94	0307-1601	9214	J-9161-5	81349
2MRCEE01A R147/C94	0307-1601	40010126-4	J-9162-1	633991
2MRCEE01A R44/C95	0307-1601	9213	J-9161-5	81349
2MRCEE01A R43/C96	0307-1601	40010126-363	J-9162-1	633991
2MRCEE01A R129/C96	0307-1601	40010126-19	J-9162-1	633991
2MRCEE01A R72/C97	0307-1601	9212	J-9161-5	81349
2MRCEE01A R43/C98	0307-1601	40010126-365	J-9162-1	633991
2MRCEE01A R85/C98	0307-1601	9221	J-9161-5	81349
2MRCEE01A R74/C101	0307-1601	9211	J-9161-5	81349
2MRCEE01A R144/C105	0307-1601	40010126-13	J-9162-1	633991
2MRCEE01A R151/C106	0307-1601	40010126-2	J-9162-1	633991
2MRCEE01A R68/C109	0307-1601	9219	J-9161-5	81349
2MRCEE01A R140/C109	0307-1601	40010126-11	J-9162-1	633991
2MRCEE01A R146/C111	0307-1601	40010126-14	J-9162-1	633991
2MRCEE01A R27/C114	0307-1601	9247	J-9161-5	81349
2MRCEE01A R137/C116	0307-1601	40010126-10	J-9162-1	633991
2MRCEE01A R38/C119	0307-1601	9249	J-9161-5	81349
2MRCEE01A R62/C119	0307-1601	9220	J-9161-5	81349
2MRCEE01A R134/C119	0307-1601	40010126-5	J-9162-1	633991
2MRCEE01A R144/C119	0307-1601	40010126-23	J-9162-1	633991
2MRCEE01A R142/C121	0307-1601	40010126-22	J-9162-1	633991
2MRCEE01A R148/C121	0307-1601	40010126-18	J-9162-1	633991
2MRCEE01A R59/C122	0307-1601	9232	J-9161-5	81349
2MRCEE01A R137/C122	0307-1601	40010126-15	J-9162-1	633991
2MRCEE01A R141/C122	0307-1601	40010126-17	J-9162-1	633991

STEAM GENERATOR 2MRCEE01A

"HOT LEG"

WORK ORDER 2451669

2MRCEE01A R151/C122	0307-1601	9236	J-9161-5	81349
2MRCEE01A R60/C123	0307-1601	9228	J-9161-5	81349
2MRCEE01A R149/C124	0307-1601	9237	J-9161-5	81349
2MRCEE01A R108/C125	0307-1601	40010126-24	J-9162-1	633991
2MRCEE01A R37/C126	0307-1601	9248	J-9161-5	81349
2MRCEE01A R147/C126	0307-1601	9239	J-9161-5	81349
2MRCEE01A R92/C129	0307-1601	9238	J-9161-5	81349
2MRCEE01A R119/C132	0307-1601	9253	J-9161-5	81349
2MRCEE01A R77/C136	0307-1601	40010126-8	J-9162-1	633991
2MRCEE01A R111/C136	0307-1601	9240	J-9161-5	81349
2MRCEE01A R78/C137	0307-1601	40010126-7	J-9162-1	633991
2MRCEE01A R120/C137	0307-1601	9241	J-9161-5	81349
2MRCEE01A R75/C138	0307-1601	40010126-12	J-9162-1	633991
2MRCEE01A R77/C138	0307-1601	40010126-366	J-9162-1	633991
2MRCEE01A R121/C138	0307-1601	9244	J-9161-5	81349
2MRCEE01A R118/C139	0307-1601	9245	J-9161-5	81349
2MRCEE01A R120/C141	0307-1601	9256	J-9161-5	81349
2MRCEE01A R112/C145	0307-1601	9242	J-9161-5	81349
2MRCEE01A R103/C146	0307-1601	9235	J-9161-5	81349
2MRCEE01A R107/C146	0307-1601	9243	J-9161-5	81349
2MRCEE01A R87/C148	0307-1601	9255	J-9161-5	81349
2MRCEE01A R95/C148	0307-1601	9254	J-9161-5	81349
2MRCEE01A R89/C150	0307-1601	9251	J-9161-5	81349
2MRCEE01A R101/C150	0307-1601	9252	J-9161-5	81349
2MRCEE01A R107/C152	0307-1601	40010126-6	J-9162-1	633991

STEAM GENERATOR 2MRCEE01A
"HOT LEG"

WORK ORDER 2451669

2MRCEE01A R101/C160	0307-1601	9257	J-9161-5	81349
2MRCEE01A R80/C175	0307-1601	9258	J-9161-5	81349
2MRCEE01A R76/C177	0307-1601	9246	J-9161-5	81349

STEAM GENERATOR 2MRCEE01A

"HOT LEG"

WORK ORDER 2451669

BWNT Plug Replacement

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01A R63/C160	0307-1601	40010126-3	J-9162-1	633991

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01B 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #2
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2454819
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01B COLD LEG TUBES PER ENG-DFWO
2451671 EVALUATION AND DISPOSITION.

9. ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 2R10 EDDY CURRENT EXAM REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2451671.

11. Repair/Replacement Work Organization WESTINGHOUSE
 12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. YES NO
MBN 01/15/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 01/15/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 01/15/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBN 01/15/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Michael B. Newell 01/15/02 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.L. Brown 1/16/02 Print Name R.L. Brown
Signature Date
 21. ANII R.G. Hogstrom 1-16-02 Print Name R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 01/22/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2454819
Address Work Order Number

3. Work Performed by WESTINGHOUSE Type Code Symbol Stamp None
Name

911 W MAIN ST CHATTANOOGA TN 37402 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT

5. (a) Applicable Construction Code ASME SEC III CL.1 19 71 Edition, W'73 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
STEAM	COMBUSTION	79273-2	22479	2MRCEE01B	79	Replacement	Yes

7. Description of Work PLUG STEAM GENERATOR TUBES PER DIWO 2451671

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

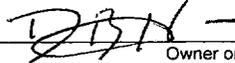
9. Remarks SEE DFWO 2451671 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED).

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed  Date 4-11-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-16-02 to 4-11-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NB 9685 "ANIC" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-11-02

STEAM GENERATOR 2MRCEE01B

"COLD LEG"

WORK ORDER 2451671

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01B R21/C8	0307-1601	40010126-30	J-9162-1	633991
2MRCEE01B R6/C13	0307-1601	40010126-32	J-9162-1	633991
2MRCEE01B R21/C20	0307-1601	40010126-33	J-9162-1	633991
2MRCEE01B R17/C30	0307-1601	40010126-27	J-9162-1	633991
2MRCEE01B R29/C30	0307-1601	40010126-38	J-9162-1	633991
2MRCEE01B R21/C32	0307-1601	40010126-36	J-9162-1	633991
2MRCEE01B R55/C32	0307-1601	40010126-39	J-9162-1	633991
2MRCEE01B R81/C34	0307-1601	40010126-37	J-9162-1	633991
2MRCEE01B R92/C37	0307-1601	40010126-35	J-9162-1	633991
2MRCEE01B R75/C38	0307-1601	9922	J-9162-2	81349
2MRCEE01B R115/C38	0307-1601	40010126-41	J-9162-1	633991
2MRCEE01B R64/C39	0307-1601	9920	J-9162-2	81349
2MRCEE01B R102/C39	0307-1601	40010126-40	J-9162-1	633991
2MRCEE01B R51/C40	0307-1601	9919	J-9162-2	81349
2MRCEE01B R85/C42	0307-1601	9903	J-9162-2	81349
2MRCEE01B R20/C43	0307-1601	40010126-31	J-9162-1	633991
2MRCEE01B R17/C44	0307-1601	9916	J-9162-2	81349
2MRCEE01B R47/C44	0307-1601	9918	J-9162-2	81349
2MRCEE01B R133/C44	0307-1601	40010126-34	J-9162-1	633991
2MRCEE01B R75/C46	0307-1601	40010126-331	J-9162-1	633991
2MRCEE01B R101/C46	0307-1601	40010126-45	J-9162-1	633991
2MRCEE01B R113/C46	0307-1601	40010126-43	J-9162-1	633991
2MRCEE01B R133/C46	0307-1601	40010126-44	J-9162-1	633991
2MRCEE01B R108/C47	0307-1601	40010126-46	J-9162-1	633991

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

WORK ORDER 2451671

2MRCEE01B R31/C48	0307-1601	40010126-47	J-9162-1	633991
2MRCEE01B R111/C48	0307-1601	40010126-26	J-9162-1	633991
2MRCEE01B R113/C48	0307-1601	40010126-28	J-9162-1	633991
2MRCEE01B R28/C49	0307-1601	9924	J-9162-2	81349
2MRCEE01B R111/C50	0307-1601	40010126-48	J-9162-1	633991
2MRCEE01B R20/C51	0307-1601	9923	J-9162-2	81349
2MRCEE01B R23/C52	0307-1601	9915	J-9162-2	81349
2MRCEE01B R29/C52	0307-1601	40010126-42	J-9162-1	633991
2MRCEE01B R39/C52	0307-1601	40010126-25	J-9162-1	633991
2MRCEE01B R115/C52	0307-1601	40010126-58	J-9162-1	633991
2MRCEE01B R44/C53	0307-1601	9921	J-9162-2	81349
2MRCEE01B R18/C57	0307-1601	9914	J-9162-2	81349
2MRCEE01B R67/C58	0307-1601	9907	J-9162-2	81349
2MRCEE01B R12/C59	0307-1601	40010126-53	J-9162-1	633991
2MRCEE01B R104/C59	0307-1601	40010126-56	J-9162-1	633991
2MRCEE01B R122/C59	0307-1601	40010126-50	J-9162-1	633991
2MRCEE01B R7/C60	0307-1601	9917	J-9162-2	81349
2MRCEE01B R110/C61	0307-1601	40010126-49	J-9162-1	633991
2MRCEE01B R136/C61	0307-1601	40010126-52	J-9162-1	633991
2MRCEE01B R147/C62	0307-1601	40010126-54	J-9162-1	633991
2MRCEE01B R10/C63	0307-1601	9913	J-9162-2	81349
2MRCEE01B R128/C63	0307-1601	40010126-67	J-9162-1	633991
2MRCEE01B R9/C64	0307-1601	9911	J-9162-2	81349
2MRCEE01B R36/C67	0307-1601	9912	J-9162-2	81349
2MRCEE01B R49/C68	0307-1601	9910	J-9162-2	81349

STEAM GENERATOR 2MRCEE01B

"COLD LEG"

WORK ORDER 2451671

2MRCEE01B R26/C69	0307-1601	40010126-68	J-9162-1	633991
2MRCEE01B R84/C69	0307-1601	9908	J-9162-2	81349
2MRCEE01B R21/C70	0307-1601	9909	J-9162-2	81349
2MRCEE01B R135/C70	0307-1601	40010126-65	J-9162-1	633991
2MRCEE01B R151/C70	0307-1601	9925	J-9162-2	81349
2MRCEE01B R114/C71	0307-1601	40010126-60	J-9162-1	633991
2MRCEE01B R45/C72	0307-1601	9906	J-9162-2	81349
2MRCEE01B R57/C72	0307-1601	9905	J-9162-2	81349
2MRCEE01B R147/C72	0307-1601	40010126-59	J-9162-1	633991
2MRCEE01B R56/C73	0307-1601	9904	J-9162-2	81349
2MRCEE01B R128/C73	0307-1601	40010126-66	J-9162-1	633991
2MRCEE01B R29/C74	0307-1601	40010126-334	J-9162-1	633991
2MRCEE01B R56/C75	0307-1601	9901	J-9162-2	81349
2MRCEE01B R60/C75	0307-1601	9935	J-9162-2	81349
2MRCEE01B R110/C75	0307-1601	40010126-64	J-9162-1	633991
2MRCEE01B R133/C76	0307-1601	40010126-69	J-9162-1	633991
2MRCEE01B R42/C77	0307-1601	9942	J-9162-2	81349
2MRCEE01B R118/C77	0307-1601	9943	J-9162-2	81349
2MRCEE01B R61/C78	0307-1601	9933	J-9162-2	81349
2MRCEE01B R83/C78	0307-1601	9947	J-9162-2	81349
2MRCEE01B R147/C78	0307-1601	40010126-57	J-9162-1	633991
2MRCEE01B R118/C79	0307-1601	9944	J-9162-2	81349
2MRCEE01B R124/C79	0307-1601	9945	J-9162-2	81349
2MRCEE01B R136/C79	0307-1601	40010126-51	J-9162-1	633991
2MRCEE01B R59/C80	0307-1601	9940	J-9162-2	81349

**STEAM GENERATOR 2MRCEE01B
"COLD LEG"**

WORK ORDER 2451671

2MRCEE01B R141/C80	0307-1601	40010126-71	J-9162-1	633991
2MRCEE01B R56/C81	0307-1601	40010126-173	J-9162-1	633991
2MRCEE01B R62/C81	0307-1601	9938	J-9162-2	81349
2MRCEE01B R70/C81	0307-1601	9948	J-9162-2	81349
2MRCEE01B R92/C81	0307-1601	9937	J-9162-2	81349
2MRCEE01B R124/C81	0307-1601	9936	J-9162-2	81349
2MRCEE01B R136/C81	0307-1601	40010126-61	J-9162-1	633991
2MRCEE01B R150/C81	0307-1601	40010126-70	J-9162-1	633991
2MRCEE01B R117/C82	0307-1601	40010126-63	J-9162-1	633991
2MRCEE01B R121/C82	0307-1601	9934	J-9162-2	81349
2MRCEE01B R151/C82	0307-1601	40010126-62	J-9162-1	633991
2MRCEE01B R126/C83	0307-1601	40010126-72	J-9162-1	633991
2MRCEE01B R148/C83	0307-1601	40010126-89	J-9162-1	633991
2MRCEE01B R37/C84	0307-1601	40010126-175	J-9162-1	633991
2MRCEE01B R61/C84	0307-1601	9931	J-9162-2	81349
2MRCEE01B R151/C84	0307-1601	40010126-75	J-9162-1	633991
2MRCEE01B R150/C85	0307-1601	40010126-77	J-9162-1	633991
2MRCEE01B R53/C86	0307-1601	9294	J-9161-5	81349
2MRCEE01B R43/C88	0307-1601	40010126-174	J-9162-1	633991
2MRCEE01B R54/C89	0307-1601	9293	J-9161-5	81349
2MRCEE01B R43/C90	0307-1601	9291	J-9161-5	81349
2MRCEE01B R55/C90	0307-1601	9292	J-9161-5	81349
2MRCEE01B R61/C90	0307-1601	9295	J-9161-5	81349
2MRCEE01B R159/C90	0307-1601	40010126-91	J-9162-1	633991
2MRCEE01B R42/C91	0307-1601	9283	J-9161-5	81349

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

WORK ORDER 2451671

2MRCEE01B R56/C91	0307-1601	9284	J-9161-5	81349
2MRCEE01B R150/C91	0307-1601	40010126-90	J-9162-1	633991
2MRCEE01B R154/C91	0307-1601	40010126-95	J-9162-1	633991
2MRCEE01B R55/C92	0307-1601	9296	J-9161-5	81349
2MRCEE01B R79/C92	0307-1601	9297	J-9161-5	81349
2MRCEE01B R42/C93	0307-1601	9287	J-9161-5	81349
2MRCEE01B R82/C93	0307-1601	40010126-94	J-9162-1	633991
2MRCEE01B R118/C93	0307-1601	9288	J-9161-5	81349
2MRCEE01B R152/C93	0307-1601	40010126-333	J-9162-1	633991
2MRCEE01B R81/C94	0307-1601	40010126-93	J-9162-1	633991
2MRCEE01B R44/C95	0307-1601	9286	J-9161-5	81349
2MRCEE01B R48/C95	0307-1601	9289	J-9161-5	81349
2MRCEE01B R90/C95	0307-1601	9300	J-9161-5	81349
2MRCEE01B R62/C97	0307-1601	9290	J-9161-5	81349
2MRCEE01B R151/C98	0307-1601	40010126-88	J-9162-1	633991
2MRCEE01B R46/C99	0307-1601	9298	J-9161-5	81349
2MRCEE01B R66/C99	0307-1601	9299	J-9161-5	81349
2MRCEE01B R125/C100	0307-1601	40010126-80	J-9162-1	633991
2MRCEE01B R46/C101	0307-1601	9285	J-9161-5	81349
2MRCEE01B R54/C101	0307-1601	9826	J-9162-2	81349
2MRCEE01B R116/C101	0307-1601	9941	J-9162-2	81349
2MRCEE01B R43/C102	0307-1601	9849	J-9162-2	81349
2MRCEE01B R47/C102	0307-1601	40010126-78	J-9162-1	633991
2MRCEE01B R55/C102	0307-1601	9828	J-9162-2	81349
2MRCEE01B R59/C102	0307-1601	9827	J-9162-2	81349

**STEAM GENERATOR 2MRCEE01B
"COLD LEG"**

WORK ORDER 2451671

2MRCEE01B R125/C102	0307-1601	40010126-92	J-9162-1	633991
2MRCEE01B R48/C103	0307-1601	9840	J-9162-2	81349
2MRCEE01B R58/C103	0307-1601	9829	J-9162-2	81349
2MRCEE01B R64/C103	0307-1601	9839	J-9162-2	81349
2MRCEE01B R82/C103	0307-1601	9926	J-9162-2	81349
2MRCEE01B R94/C103	0307-1601	9946	J-9162-2	81349
2MRCEE01B R154/C103	0307-1601	40010126-86	J-9162-1	633991
2MRCEE01B R44/C105	0307-1601	40010126-73	J-9162-1	633991
2MRCEE01B R64/C105	0307-1601	9932	J-9162-2	81349
2MRCEE01B R152/C105	0307-1601	40010126-83	J-9162-1	633991
2MRCEE01B R45/C106	0307-1601	9830	J-9162-2	81349
2MRCEE01B R93/C106	0307-1601	40010126-81	J-9162-1	633991
2MRCEE01B R56/C107	0307-1601	9930	J-9162-2	81349
2MRCEE01B R82/C107	0307-1601	9929	J-9162-2	81349
2MRCEE01B R35/C108	0307-1601	40010126-76	J-9162-1	633991
2MRCEE01B R103/C108	0307-1601	40010126-87	J-9162-1	633991
2MRCEE01B R35/C110	0307-1601	40010126-74	J-9162-1	633991
2MRCEE01B R81/C110	0307-1601	9928	J-9162-2	81349
2MRCEE01B R32/C111	0307-1601	40010126-79	J-9162-1	633991
2MRCEE01B R31/C112	0307-1601	40010126-82	J-9162-1	633991
2MRCEE01B R47/C112	0307-1601	9927	J-9162-2	81349
2MRCEE01B R118/C113	0307-1601	40010126-84	J-9162-1	633991
2MRCEE01B R146/C113	0307-1601	40010126-85	J-9162-1	633991
2MRCEE01B R58/C115	0307-1601	9824	J-9162-2	81349
2MRCEE01B R48/C117	0307-1601	9813	J-9162-2	81349

STEAM GENERATOR 2MRCEE01B

"COLD LEG"

WORK ORDER 2451671

2MRCEE01B R54/C117	0307-1601	40010126-330	J-9162-1	633991
2MRCEE01B R70/C117	0307-1601	9825	J-9162-2	81349
2MRCEE01B R29/C118	0307-1601	9817	J-9162-2	81349
2MRCEE01B R107/C118	0307-1601	40010126-176	J-9162-1	633991
2MRCEE01B R117/C118	0307-1601	40010126-178	J-9162-1	633991
2MRCEE01B R34/C119	0307-1601	9818	J-9162-2	81349
2MRCEE01B R150/C119	0307-1601	40010126-172	J-9162-1	633991
2MRCEE01B R34/C121	0307-1601	9816	J-9162-2	81349
2MRCEE01B R56/C121	0307-1601	9823	J-9162-2	81349
2MRCEE01B R55/C122	0307-1601	9822	J-9162-2	81349
2MRCEE01B R71/C122	0307-1601	9821	J-9162-2	81349
2MRCEE01B R26/C123	0307-1601	9815	J-9162-2	81349
2MRCEE01B R40/C123	0307-1601	9814	J-9162-2	81349
2MRCEE01B R60/C123	0307-1601	9811	J-9162-2	81349
2MRCEE01B R69/C124	0307-1601	40010126-184	J-9162-1	633991
2MRCEE01B R123/C124	0307-1601	40010126-185	J-9162-1	633991
2MRCEE01B R17/C126	0307-1601	9847	J-9162-2	81349
2MRCEE01B R88/C127	0307-1601	9819	J-9162-2	81349
2MRCEE01B R148/C127	0307-1601	40010126-186	J-9162-1	633991
2MRCEE01B R4/C129	0307-1601	9842	J-9162-2	81349
2MRCEE01B R22/C129	0307-1601	9846	J-9162-2	81349
2MRCEE01B R56/C129	0307-1601	9810	J-9162-2	81349
2MRCEE01B R82/C129	0307-1601	9807	J-9162-2	81349
2MRCEE01B R11/C130	0307-1601	9845	J-9162-2	81349
2MRCEE01B R83/C130	0307-1601	9820	J-9162-2	81349

**STEAM GENERATOR 2MRCEE01B
"COLD LEG"**

WORK ORDER 2451671

2MRCEE01B R85/C130	0307-1601	9809	J-9162-2	81349
2MRCEE01B R66/C131	0307-1601	9808	J-9162-2	81349
2MRCEE01B R17/C132	0307-1601	40010126-183	J-9162-1	633991
2MRCEE01B R12/C133	0307-1601	40010126-181	J-9162-1	633991
2MRCEE01B R76/C133	0307-1601	9950	J-9162-2	81349
2MRCEE01B R118/C133	0307-1601	40010126-182	J-9162-1	633991
2MRCEE01B R11/C134	0307-1601	9844	J-9162-2	81349
2MRCEE01B R22/C135	0307-1601	9848	J-9162-2	81349
2MRCEE01B R97/C136	0307-1601	40010126-177	J-9162-1	633991
2MRCEE01B R29/C140	0307-1601	9835	J-9162-2	81349
2MRCEE01B R46/C141	0307-1601	9806	J-9162-2	81349
2MRCEE01B R25/C142	0307-1601	9843	J-9162-2	81349
2MRCEE01B R28/C143	0307-1601	9841	J-9162-2	81349
2MRCEE01B R29/C146	0307-1601	9831	J-9162-2	81349
2MRCEE01B R57/C146	0307-1601	9949	J-9162-2	81349
2MRCEE01B R34/C147	0307-1601	9690	J-9162-2	81349
2MRCEE01B R42/C147	0307-1601	40010126-180	J-9162-1	633991
2MRCEE01B R44/C147	0307-1601	40010126-179	J-9162-1	633991
2MRCEE01B R82/C147	0307-1601	9683	J-9162-2	81349
2MRCEE01B R112/C147	0307-1601	40010126-187	J-9162-1	633991
2MRCEE01B R15/C148	0307-1601	9832	J-9162-2	81349
2MRCEE01B R23/C148	0307-1601	9836	J-9162-2	81349
2MRCEE01B R23/C150	0307-1601	9834	J-9162-2	81349
2MRCEE01B R45/C150	0307-1601	40010126-190	J-9162-1	633991
2MRCEE01B R119/C150	0307-1601	40010126-188	J-9162-1	633991

STEAM GENERATOR 2MRCEE01B

"COLD LEG"

WORK ORDER 2451671

2MRCEE01B R29/C154	0307-1601	40010126-189	J-9162-1	633991
2MRCEE01B R22/C159	0307-1601	9833	J-9162-2	81349
2MRCEE01B R104/C159	0307-1601	40010126-191	J-9162-1	633991
2MRCEE01B R90/C165	0307-1601	9838	J-9162-2	81349
2MRCEE01B R3/C174	0307-1601	40010126-192	J-9162-1	633991
2MRCEE01B R61/C176	0307-1601	40010126-171	J-9162-1	633991
2MRCEE01B R26/C177	0307-1601	40010126-170	J-9162-1	633991
2MRCEE01B R31/C180	0307-1601	9837	J-9162-2	81349

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01B 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #2
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2454820
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01B HOT LEG TUBES PER ENG-DFWO 2451672 EVALUATION AND DISPOSITION.

9. ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 2R10 EDDY CURRENT EXAM REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2451672.

11. Repair/Replacement Work Organization WESTINGHOUSE

12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA

14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO

MBW 01/14/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO

MBW 01/14/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBW 01/14/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBW 01/14/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Michael B. Newell 01/14/02 Print Name MICHAEL B. NEWELL
Signature Date

20. ISI Engineer R.L. Browning 1/16/02 Print Name R.L. Browning
Signature Date

21. ANII R. Hogstrom 1-16-02 Print Name R. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 01/22/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2454820
Address Work Order Number

3. Work Performed by WESTINGHOUSE Type Code Symbol Stamp None
Name

Authorization No. N/A

911 W MAIN ST CHATTANOOGA TN 37402 Expiration Date N/A
Address

4. Identification of System REACTOR COOLANT

5. (a) Applicable Construction Code ASME SEC III CL.1 19 71 Edition, W'73 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
STEAM	COMBUSTION	79273-2	22479	2MRCEE01B	79	Replacement	Yes

7. Description of Work PLUG STEAM GENERATOR TUBES PER DIWO 2451672

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE DFWO 2451672 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED).

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed *DBH* Date 4-11-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-16-02 to 4-11-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. L. Johnson Commissions NB 9685 "ASIC" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-11-02

STEAM GENERATOR 2MRCEE01B

"HOT LEG"

WORK ORDER 2451672

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01B R21/C8	0307-1601	40010126-239	J-9162-1	633991
2MRCEE01B R6/C13	0307-1601	40010126-230	J-9162-1	633991
2MRCEE01B R21/C20	0307-1601	40010126-227	J-9162-1	633991
2MRCEE01B R17/C30	0307-1601	40010126-240	J-9162-1	633991
2MRCEE01B R29/C30	0307-1601	40010126-242	J-9162-1	633991
2MRCEE01B R21/C32	0307-1601	40010126-241	J-9162-1	633991
2MRCEE01B R55/C32	0307-1601	40010126-225	J-9162-1	633991
2MRCEE01B R81/C34	0307-1601	40010126-224	J-9162-1	633991
2MRCEE01B R92/C37	0307-1601	40010126-219	J-9162-1	633991
2MRCEE01B R75/C38	0307-1601	40010126-130	J-9162-1	633991
2MRCEE01B R115/C38	0307-1601	40010126-221	J-9162-1	633991
2MRCEE01B R64/C39	0307-1601	40010126-99	J-9162-1	633991
2MRCEE01B R102/C39	0307-1601	40010126-220	J-9162-1	633991
2MRCEE01B R51/C40	0307-1601	40010126-97	J-9162-1	633991
2MRCEE01B R85/C42	0307-1601	40010126-100	J-9162-1	633991
2MRCEE01B R20/C43	0307-1601	40010126-222	J-9162-1	633991
2MRCEE01B R17/C44	0307-1601	40010126-103	J-9162-1	633991
2MRCEE01B R47/C44	0307-1601	40010126-104	J-9162-1	633991
2MRCEE01B R133/C44	0307-1601	40010126-223	J-9162-1	633991
2MRCEE01B R75/C46	0307-1601	40010126-226	J-9162-1	633991
2MRCEE01B R101/C46	0307-1601	40010126-228	J-9162-1	633991
2MRCEE01B R113/C46	0307-1601	40010126-218	J-9162-1	633991
2MRCEE01B R133/C46	0307-1601	40010126-129	J-9162-1	633991
2MRCEE01B R108/C47	0307-1601	40010126-234	J-9162-1	633991

STEAM GENERATOR 2MRCEE01B

"HOT LEG"

WORK ORDER 2451672

2MRCEE01B R31/C48	0307-1601	40010126-233	J-9162-1	633991
2MRCEE01B R111/C48	0307-1601	40010126-231	J-9162-1	633991
2MRCEE01B R113/C48	0307-1601	40010126-232	J-9162-1	633991
2MRCEE01B R28/C49	0307-1601	40010126-118	J-9162-1	633991
2MRCEE01B R111/C50	0307-1601	40010126-229	J-9162-1	633991
2MRCEE01B R20/C51	0307-1601	40010126-109	J-9162-1	633991
2MRCEE01B R23/C52	0307-1601	40010126-112	J-9162-1	633991
2MRCEE01B R29/C52	0307-1601	40010126-236	J-9162-1	633991
2MRCEE01B R39/C52	0307-1601	40010126-237	J-9162-1	633991
2MRCEE01B R115/C52	0307-1601	40010126-238	J-9162-1	633991
2MRCEE01B R44/C53	0307-1601	40010126-106	J-9162-1	633991
2MRCEE01B R18/C57	0307-1601	40010126-134	J-9162-1	633991
2MRCEE01B R67/C58	0307-1601	40010126-107	J-9162-1	633991
2MRCEE01B R12/C59	0307-1601	40010126-121	J-9162-1	633991
2MRCEE01B R104/C59	0307-1601	40010126-252	J-9162-1	633991
2MRCEE01B R122/C59	0307-1601	40010126-271	J-9162-1	633991
2MRCEE01B R7/C60	0307-1601	40010126-123	J-9162-1	633991
2MRCEE01B R110/C61	0307-1601	40010126-264	J-9162-1	633991
2MRCEE01B R136/C61	0307-1601	40010126-270	J-9162-1	633991
2MRCEE01B R147/C62	0307-1601	40010126-265	J-9162-1	633991
2MRCEE01B R10/C63	0307-1601	40010126-124	J-9162-1	633991
2MRCEE01B R128/C63	0307-1601	40010126-263	J-9162-1	633991
2MRCEE01B R9/C64	0307-1601	40010126-122	J-9162-1	633991
2MRCEE01B R36/C67	0307-1601	40010126-102	J-9162-1	633991
2MRCEE01B R49/C68	0307-1601	40010126-111	J-9162-1	633991

STEAM GENERATOR 2MRCEE01B

"HOT LEG"

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2MRCEE01B R26/C69	0307-1601	40010126-398	J-9162-1	633991
2MRCEE01B R84/C69	0307-1601	40010126-110	J-9162-1	633991
2MRCEE01B R21/C70	0307-1601	40010126-108	J-9162-1	633991
2MRCEE01B R135/C70	0307-1601	40010126-245	J-9162-1	633991
2MRCEE01B R151/C70	0307-1601	40010126-113	J-9162-1	633991
2MRCEE01B R114/C71	0307-1601	40010126-243	J-9162-1	633991
2MRCEE01B R45/C72	0307-1601	40010126-133	J-9162-1	633991
2MRCEE01B R57/C72	0307-1601	40010126-144	J-9162-1	633991
2MRCEE01B R147/C72	0307-1601	40010126-251	J-9162-1	633991
2MRCEE01B R56/C73	0307-1601	40010126-98	J-9162-1	633991
2MRCEE01B R128/C73	0307-1601	40010126-250	J-9162-1	633991
2MRCEE01B R29/C74	0307-1601	40010126-119	J-9162-1	633991
2MRCEE01B R56/C75	0307-1601	40010126-101	J-9162-1	633991
2MRCEE01B R60/C75	0307-1601	40010126-145	J-9162-1	633991
2MRCEE01B R110/C75	0307-1601	40010126-266	J-9162-1	633991
2MRCEE01B R133/C76	0307-1601	40010126-260	J-9162-1	633991
2MRCEE01B R42/C77	0307-1601	40010126-105	J-9162-1	633991
2MRCEE01B R118/C77	0307-1601	40010126-114	J-9162-1	633991
2MRCEE01B R61/C78	0307-1601	40010126-115	J-9162-1	633991
2MRCEE01B R83/C78	0307-1601	40010126-116	J-9162-1	633991
2MRCEE01B R147/C78	0307-1601	40010126-259	J-9162-1	633991
2MRCEE01B R118/C79	0307-1601	40010126-117	J-9162-1	633991
2MRCEE01B R124/C79	0307-1601	40010126-120	J-9162-1	633991
2MRCEE01B R136/C79	0307-1601	40010126-256	J-9162-1	633991
2MRCEE01B R59/C80	0307-1601	40010126-150	J-9162-1	633991

STEAM GENERATOR 2MRCEE01B

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2MRCEE01B R141/C80	0307-1601	40010126-196	J-9162-1	633991
2MRCEE01B R56/C81	0307-1601	40010126-151	J-9162-1	633991
2MRCEE01B R62/C81	0307-1601	40010126-152	J-9162-1	633991
2MRCEE01B R70/C81	0307-1601	40010126-148	J-9162-1	633991
2MRCEE01B R92/C81	0307-1601	40010126-157	J-9162-1	633991
2MRCEE01B R124/C81	0307-1601	40010126-163	J-9162-1	633991
2MRCEE01B R136/C81	0307-1601	40010126-209	J-9162-1	633991
2MRCEE01B R150/C81	0307-1601	40010126-197	J-9162-1	633991
2MRCEE01B R117/C82	0307-1601	40010126-269	J-9162-1	633991
2MRCEE01B R121/C82	0307-1601	40010126-146	J-9162-1	633991
2MRCEE01B R151/C82	0307-1601	40010126-195	J-9162-1	633991
2MRCEE01B R126/C83	0307-1601	40010126-257	J-9162-1	633991
2MRCEE01B R148/C83	0307-1601	40010126-247	J-9162-1	633991
2MRCEE01B R37/C84	0307-1601	40010126-290	J-9162-1	633991
2MRCEE01B R61/C84	0307-1601	40010126-149	J-9162-1	633991
2MRCEE01B R151/C84	0307-1601	40010126-246	J-9162-1	633991
2MRCEE01B R150/C85	0307-1601	40010126-267	J-9162-1	633991
2MRCEE01B R53/C86	0307-1601	40010126-169	J-9162-1	633991
2MRCEE01B R43/C88	0307-1601	40010126-378	J-9162-1	633991
2MRCEE01B R54/C89	0307-1601	40010126-158	J-9162-1	633991
2MRCEE01B R43/C90	0307-1601	40010126-164	J-9162-1	633991
2MRCEE01B R55/C90	0307-1601	40010126-168	J-9162-1	633991
2MRCEE01B R61/C90	0307-1601	40010126-147	J-9162-1	633991
2MRCEE01B R159/C90	0307-1601	40010126-292	J-9162-1	633991
2MRCEE01B R42/C91	0307-1601	40010126-153	J-9162-1	633991

**STEAM GENERATOR 2MRCEE01B
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2MRCEE01B R56/C91	0307-1601	40010126-162	J-9162-1	633991
2MRCEE01B R150/C91	0307-1601	40010126-291	J-9162-1	633991
2MRCEE01B R154/C91	0307-1601	40010126-288	J-9162-1	633991
2MRCEE01B R55/C92	0307-1601	40010126-159	J-9162-1	633991
2MRCEE01B R79/C92	0307-1601	40010126-160	J-9162-1	633991
2MRCEE01B R42/C93	0307-1601	40010126-154	J-9162-1	633991
2MRCEE01B R82/C93	0307-1601	40010126-194	J-9162-1	633991
2MRCEE01B R118/C93	0307-1601	40010126-132	J-9162-1	633991
2MRCEE01B R152/C93	0307-1601	40010126-284	J-9162-1	633991
2MRCEE01B R81/C94	0307-1601	40010126-217	J-9162-1	633991
2MRCEE01B R44/C95	0307-1601	40010126-166	J-9162-1	633991
2MRCEE01B R48/C95	0307-1601	40010126-165	J-9162-1	633991
2MRCEE01B R90/C95	0307-1601	40010126-155	J-9162-1	633991
2MRCEE01B R62/C97	0307-1601	40010126-167	J-9162-1	633991
2MRCEE01B R151/C98	0307-1601	40010126-393	J-9162-1	633991
2MRCEE01B R46/C99	0307-1601	40010126-161	J-9162-1	633991
2MRCEE01B R66/C99	0307-1601	40010126-156	J-9162-1	633991
2MRCEE01B R125/C100	0307-1601	40010126-210	J-9162-1	633991
2MRCEE01B R46/C101	0307-1601	40010126-208	J-9162-1	633991
2MRCEE01B R54/C101	0307-1601	40010126-205	J-9162-1	633991
2MRCEE01B R116/C101	0307-1601	40010126-207	J-9162-1	633991
2MRCEE01B R43/C102	0307-1601	40010126-201	J-9162-1	633991
2MRCEE01B R47/C102	0307-1601	40010126-286	J-9162-1	633991
2MRCEE01B R55/C102	0307-1601	40010126-200	J-9162-1	633991
2MRCEE01B R59/C102	0307-1601	40010126-199	J-9162-1	633991

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2MRCEE01B R125/C102	0307-1601	40010126-211	J-9162-1	633991
2MRCEE01B R48/C103	0307-1601	40010126-141	J-9162-1	633991
2MRCEE01B R58/C103	0307-1601	40010126-204	J-9162-1	633991
2MRCEE01B R64/C103	0307-1601	40010126-198	J-9162-1	633991
2MRCEE01B R82/C103	0307-1601	40010126-206	J-9162-1	633991
2MRCEE01B R94/C103	0307-1601	40010126-215	J-9162-1	633991
2MRCEE01B R154/C103	0307-1601	40010126-394	J-9162-1	633991
2MRCEE01B R44/C105	0307-1601	40010126-261	J-9162-1	633991
2MRCEE01B R64/C105	0307-1601	40010126-216	J-9162-1	633991
2MRCEE01B R152/C105	0307-1601	40010126-193	J-9162-1	633991
2MRCEE01B R45/C106	0307-1601	40010126-213	J-9162-1	633991
2MRCEE01B R93/C106	0307-1601	40010126-268	J-9162-1	633991
2MRCEE01B R56/C107	0307-1601	40010126-214	J-9162-1	633991
2MRCEE01B R82/C107	0307-1601	40010126-212	J-9162-1	633991
2MRCEE01B R35/C108	0307-1601	40010126-386	J-9162-1	633991
2MRCEE01B R103/C108	0307-1601	40010126-248	J-9162-1	633991
2MRCEE01B R35/C110	0307-1601	40010126-294	J-9162-1	633991
2MRCEE01B R81/C110	0307-1601	40010126-202	J-9162-1	633991
2MRCEE01B R32/C111	0307-1601	40010126-390	J-9162-1	633991
2MRCEE01B R31/C112	0307-1601	40010126-389	J-9162-1	633991
2MRCEE01B R47/C112	0307-1601	40010126-203	J-9162-1	633991
2MRCEE01B R118/C113	0307-1601	40010126-262	J-9162-1	633991
2MRCEE01B R146/C113	0307-1601	40010126-392	J-9162-1	633991
2MRCEE01B R58/C115	0307-1601	40010126-143	J-9162-1	633991
2MRCEE01B R48/C117	0307-1601	40010126-142	J-9162-1	633991

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2MRCEE01B R54/C117	0307-1601	40010126-136	J-9162-1	633991
2MRCEE01B R70/C117	0307-1601	40010126-135	J-9162-1	633991
2MRCEE01B R29/C118	0307-1601	40010126-318	J-9162-1	633991
2MRCEE01B R107/C118	0307-1601	40010126-249	J-9162-1	633991
2MRCEE01B R117/C118	0307-1601	40010126-280	J-9162-1	633991
2MRCEE01B R34/C119	0307-1601	40010126-317	J-9162-1	633991
2MRCEE01B R150/C119	0307-1601	40010126-285	J-9162-1	633991
2MRCEE01B R34/C121	0307-1601	40010126-310	J-9162-1	633991
2MRCEE01B R56/C121	0307-1601	40010126-138	J-9162-1	633991
2MRCEE01B R55/C122	0307-1601	40010126-140	J-9162-1	633991
2MRCEE01B R71/C122	0307-1601	40010126-128	J-9162-1	633991
2MRCEE01B R26/C123	0307-1601	40010126-339	J-9162-1	633991
2MRCEE01B R40/C123	0307-1601	40010126-131	J-9162-1	633991
2MRCEE01B R60/C123	0307-1601	40010126-127	J-9162-1	633991
2MRCEE01B R69/C124	0307-1601	40010126-396	J-9162-1	633991
2MRCEE01B R123/C124	0307-1601	40010126-279	J-9162-1	633991
2MRCEE01B R17/C126	0307-1601	40010126-340	J-9162-1	633991
2MRCEE01B R88/C127	0307-1601	40010126-302	J-9162-1	633991
2MRCEE01B R148/C127	0307-1601	40010126-397	J-9162-1	633991
2MRCEE01B R4/C129	0307-1601	40010126-305	J-9162-1	633991
2MRCEE01B R22/C129	0307-1601	40010126-309	J-9162-1	633991
2MRCEE01B R56/C129	0307-1601	40010126-126	J-9162-1	633991
2MRCEE01B R82/C129	0307-1601	40010126-139	J-9162-1	633991
2MRCEE01B R11/C130	0307-1601	40010126-296	J-9162-1	633991
2MRCEE01B R83/C130	0307-1601	40010126-137	J-9162-1	633991

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2MRCEE01B R85/C130	0307-1601	40010126-322	J-9162-1	633991
2MRCEE01B R66/C131	0307-1601	40010126-311	J-9162-1	633991
2MRCEE01B R17/C132	0307-1601	40010126-383	J-9162-1	633991
2MRCEE01B R12/C133	0307-1601	40010126-377	J-9162-1	633991
2MRCEE01B R76/C133	0307-1601	40010126-337	J-9162-1	633991
2MRCEE01B R118/C133	0307-1601	40010126-395	J-9162-1	633991
2MRCEE01B R11/C134	0307-1601	40010126-299	J-9162-1	633991
2MRCEE01B R22/C135	0307-1601	40010126-319	J-9162-1	633991
2MRCEE01B R97/C136	0307-1601	40010126-281	J-9162-1	633991
2MRCEE01B R29/C140	0307-1601	40010126-324	J-9162-1	633991
2MRCEE01B R46/C141	0307-1601	40010126-399	J-9162-1	633991
2MRCEE01B R25/C142	0307-1601	40010126-321	J-9162-1	633991
2MRCEE01B R28/C143	0307-1601	40010126-314	J-9162-1	633991
2MRCEE01B R29/C146	0307-1601	40010126-338	J-9162-1	633991
2MRCEE01B R57/C146	0307-1601	40010126-316	J-9162-1	633991
2MRCEE01B R34/C147	0307-1601	40010126-313	J-9162-1	633991
2MRCEE01B R42/C147	0307-1601	40010126-374	J-9162-1	633991
2MRCEE01B R44/C147	0307-1601	40010126-298	J-9162-1	633991
2MRCEE01B R82/C147	0307-1601	40010126-400	J-9162-1	633991
2MRCEE01B R112/C147	0307-1601	40010126-301	J-9162-1	633991
2MRCEE01B R15/C148	0307-1601	40010126-307	J-9162-1	633991
2MRCEE01B R23/C148	0307-1601	40010126-379	J-9162-1	633991
2MRCEE01B R23/C150	0307-1601	40010126-272	J-9162-1	633991
2MRCEE01B R45/C150	0307-1601	40010126-308	J-9162-1	633991
2MRCEE01B R119/C150	0307-1601	40010126-277	J-9162-1	633991

**STEAM GENERATOR 2MRCEE01B
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2MRCEE01B R29/C154	0307-1601	40010126-385	J-9162-1	633991
2MRCEE01B R22/C159	0307-1601	40010126-300	J-9162-1	633991
2MRCEE01B R104/C159	0307-1601	40010126-304	J-9162-1	633991
2MRCEE01B R90/C165	0307-1601	40010126-382	J-9162-1	633991
2MRCEE01B R3/C174	0307-1601	40010126-381	J-9162-1	633991
2MRCEE01B R61/C176	0307-1601	40010126-375	J-9162-1	633991
2MRCEE01B R26/C177	0307-1601	40010126-306	J-9162-1	633991
2MRCEE01B R31/C180	0307-1601	40010126-384	J-9162-1	633991

STEAM GENERATOR 2MRCEE01B

"HOT LEG"

WORK ORDER 2451672

Westinghouse Plug Replacement

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01B R72/C29	034-01	58	J-9161-5	533616
2MRCEE01B R90/C51	034-01	63	J-9161-5	533616
2MRCEE01B R86/C43	034-01	59	J-9161-5	533616

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 03/08/2002
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 2
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2463593
3. Work Performed by: Arizona Public Service Type of Code Stamp None
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System: Diesel Generator Demineralized Water Supply line 2PDGBL015.
5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Winter 1975 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Jacket Water Makeup Valve	Target Rock	7 (2SMH-53)	N/A	2JDGAUV001	1978	Replacement	YES
Jacket Water Makeup Line	N/A	N/A	N/A	2PDGAL004	1981	Replacement	YES

7. Description of Work: Modify line 2PDGAL004 and replace 2JDGAUV001 with a manual operated globe valve 2PDGAV 063per DMWO#220055

8. Test Conducted: Hydrostatic Pneumatic ^{21/2 3/2/02} Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi ₃₋₂₃₋₀₂ Test Temperature _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

FORM NIS-2 (Back)

Remarks:

W.O. 2463593

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A _____

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

Signed: R. Pordap, Consulting Metallurgical Engineer Date: 3/28/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-14-02 to 3-28-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. A. Johnson
Inspectors Signature

Commissions NS 9685 'AWIC' Az 264
National Board, State, Province, and Endorsements

Date: 3-28-02

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 03/30/2002
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 2
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2499873
3. Work Performed by: Arizona Public Service Type of Code Stamp None
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System: CH: Chemical & Volume Control System
5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Valve	Borg Warner	49723	N/A	2PCHNV139	1979	Repaired	YES

7. Description of Work: Weld to buildup areas at gasket seating surface.
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temperature _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

FORM NIS-2 (Back)

9. Remarks: W.O. 2499873 for valve 2PCHNV139 has 3 eroded areas that will be welded to buildup the flex gasket seating surfaces.

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A _____

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

Signed: R. P. [Signature], Consulting Metallurgical Engineer Date: 4/10/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HBST CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-30-02 to 4-10-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspectors Signature

Commissions NS 9685 "ASIC" AZ 264

National Board, State, Province, and Endorsements

Date: 4-10-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MEWBE01 2. Code Class ASME Section III Class 3
3. Item Description ESSENTIAL COOLING WATER HEAT EXCHANGER "B"
4. N-5 Package Number 2EW02-1 5. W.O. Number 2500073
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda.
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda.
8. Work Description WELD BUILD-UP MATERIAL REPAIR OF DEFECTS IDENTIFIED IN THE TUBE (Spray Pond) SIDE OF THE HEAT EXCHANGER.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
WELD REPAIR REQUIRED AFTER INSPECTION OF THE METAL SURFACES PRIOR TO PERIODIC COATING, THERE WAS NO FAILURE OF THE CODE PRESSURE BOUNDRY.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Sec. III Cl.3/'74 Edition '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Sec. III Cl.3/'74 Edition '75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. YES NO
KOS 3/30/2002 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
KOS 3/30/2002 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

KOS 3/30/2002 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

KOS 3/30/2002 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2MEWBE01	N/A	N/A	N/A	N/A

19. Planner Karl V. Savage 03/30/02 Print Name KARL V. SAVAGE
Signature Date
20. ISI Engineer Karl V. Savage 3/30/02 Print Name KARL V. SAVAGE
Signature Date Per Telecons w/ Ramkrant Indhp
21. ANII Karl V. Savage 3/30/02 Print Name ROBERT G. HOGSTROM
Signature Date Per Telecons w/ Bob Hogstrom Karl V. Savage

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 4-17-02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2500073
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah Arizona, 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System EW, ASME Section III, Class 3
5. (a) Applicable Construction Code Section III, Class 3 19 74 Edition, W/75 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
2B EW Ht. Exch.	Struther Wells Corp.	17606329142	14441	2MEWBEO1	'79	Repaired	Yes

7. Description of Work Weld Build-up, Material Repair.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

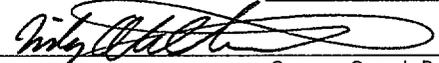
9. Remarks Pressure Test per N-416-1, Performed Weld Repair/Build-up of Eroded areas designated by Engineering in the Tube (Spray Pond) Side of the Heat Exchanger.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp n/a

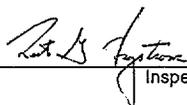
Certificate of Authorization No. n/a Expiration Date n/a

Signed  ISI Engineer Date 4-17-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-30-02 to 4-17-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NB 9685 "N" "I" AZ264
Inspector's Signature National Board, State, Province, and Endorsements

Date April 17, 2002

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEA18 2. Code Class ASME Section III, Class 1
3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
4. N-5 Package Number 2RC01-1A 5. W.O. Number 2501353
6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Defective Pressurizer Heater, Make Fillet Weld between Pressurizer Nozzle and new Heater Sleeve.
-
9. ISI Flaw NDE Method of Flaw Detection N/A
Report Number N/A
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Electrical Portion of Heater Failed, No Failure on ASME Pressure Retaining Boundary.
-
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda
3. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Class 1/'74 Edition, '75 Winter Addenda
14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. YES NO
N/A^{W3} 4/2/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
N/A^{W3} 4/2/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

KVS 4/2/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

KVS 4/2/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Heater	44450049		84J	635077

19. Planner Karl V. Savage 4/2/02 Print Name Karl V. Savage
Signature Date
- J. ISI Engineer Ramakant P. Indap 4/2/02 Print Name Ramakant P. Indap
Signature Date
21. ANII Robert G. Hogstrom 4-2-02 Print Name Robert G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 04/01/02
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2501353
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Expiration Date N/A
Address
4. Identification of System RC, ASME Section III, Class 1
5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/73 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Heater	Watlow	84 J	N/A	2MRGEA18	2002	Replacement	NO

7. Description of Work Replace Defective Pressurizer Heater, Make Fillet Weld between Pzr Nozzle and Hti
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
- Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 2501353 replace 2MPLEA18
WO# 2445914 To Replace Pressurizer Back-Up Heater 2MPCEB17:

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date n/a

Signed [Signature] ISI Engineer Date 4-4-2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-2-02 to 4-4-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 9685 "N" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-4-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEA11 2. Code Class ASME Section III, Class 1
3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
4. N-5 Package Number 2RC01-1A 5. W.O. Number 2501893
6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Defective Pressurizer Heater, Make Fillet Weld between Pressurizer Nozzle and new Heater Sleeve.
9. ISI Flaw NDE Method of Flaw Detection N/A
Report Number N/A
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Electrical Portion of Heater Failed, No Failure on ASME Pressure Retaining Boundary.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Class 1/'74 Edition, '75 Winter Addenda
14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. YES NO
N/Aws 4/2/2002 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
N/Aws 4/2/2002 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

KVS 4/2/2002 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

KVS 4/2/2002 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Heater	44450049		43J	250881

19. Planner Karl V. Savage 4/2/2002 Print Name Karl V. Savage
Signature Date
20. ISI Engineer Karl V. Savage 4/2/2002 Print Name Ramakant P. Indap
Signature Date *Per telecon w/*
21. ANII Karl V. Savage 4/2/2002 Print Name Robert G. Hogstrom
Signature Date *Per telecon w/*

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 04/02/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2501893
Address Work Order Number

3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Expiration Date N/A
Address

4. Identification of System RC, ASME Section III, Class 1

5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/73 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Heater	Watlow	43 J	N/A	2MRCEA11	2002	Replacement	NO

7. Description of Work Replace Defective Pressurizer Heater, Make Fillet Weld between Pzr Nozzle and Htr

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 2501893 To Replace Pressurizer Back-Up Heater 2MRCEA11.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date n/a

Signed [Signature] ISI Engineer Date 4/4/2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-2-02 to 4-4-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 9685 "N" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-4-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2CH-149-H004 2. Code Class CLASS 2
 3. Item Description ITT GRINELL SWAY STRUT
 4. N-5 Package Number 2CH02-10 5. W.O. Number 2506194
 6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description REPLACE THE PADDLE END ASSEMBLIES

9. ISI Flaw NDE Method of Flaw Detection VISUAL
 Report Number VT-02-283

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Sway strut paddle end assembly is being replaced since it was bent due to water hammer. The waterhammer loading is outside the original design. CRDR # 2507107 has been initiated to further investigate this transient and to determine corrective action if needed.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION, WINTER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, WINTER 1975 ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 04/10/02 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 04/10/02 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 04/10/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 04/10/02 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2CH149-H004	211 END PADDLE	41-3263	N/A	00637618
2CH149-H004	211 END PADDLE	41-3263	N/A	00637618

19. Planner David Goodlet 04/10/02 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer Ramakant Indap 4/10/02 Print Name RAMAKANT INDAP
Signature Date
 21. ANII Robert Hogstrom 4-10-02 Print Name ROBERT HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 04/09/02
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2506194
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE COMPANY Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd. Tonopah, Az 85354-7529 Expiration Date N/A
Address

4. Identification of System CH- Chemical and volume control system

5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, W'75 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
sway strut	ITT GRINELL	41-3263	N/A	2CH149-H004	1990	Replacement	Yes

7. Description of Work Replacement of the paddle ends from above strut.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1

Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O 2506194 for 2CH149-H004, REPLACEMENT OF THE PADDLE ENDS FROM A SWAY STRUT.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Alan Monow ISI Engineer Date 4/12/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-10-02 to 4-12-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Alan Monow Commissions NB 9685 "ASIC" Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-12-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JCHELV0110P 2. Code Class ASME SECTION III, CLASS 2
 3. Item Description LETDOWN CONTROL VALVE
 4. N-5 Package Number 2CH15-1 5. W.O. Number 2342619
 6. Original Construction Code Edition ASME Section III, Class 2, 1974, Summer 1974 Addenda
 7. Original Installation Code Edition ASME Section III, Class 2, 1974, Winter 1975 Addenda
 8. Work Description Replace valve bonnet per work order instructions.
STEM, PLUG, AND BONNET WERE REMOVED FROM COMPLETE VALVE ASSEMBLY S/N 11949735 APN# 4500-003056

9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

11. Repair/Replacement Work Organization Arizona Public Service
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec III, 1974 Ed., Summer 1974 Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec III, 1974 Ed., Winter 1975 Addenda
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. YES NO
ML 3/16/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
ML 3/16/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
ML 3/16/01
Initial Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
ML 3/16/01
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Valve Bonnet	24A5418X02			PL 0469461
STEM	1V142235162	C930810-12		
PLUG	14A3722X032 14A3722X222P	L00245-1	04177-1	
STUFS	1R3873X0072	P396 17HR12	V660A	
NOTS	1C3306X0032	F109 17HR12	V6B	
BONNET FLANGE	1N3392X0062		HT35756-1	

19. Planner [Signature] 3/16/01 Print Name HERBERT L. GREEN
Signature Date

20. ISI Engineer [Signature] 3-16-01 Print Name AIAN MORROW
Signature Date

21. ANII [Signature] 3/16/01 Print Name BOB HOGSTROM
Signature Date

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

1. Owner Arizona Public Service Company, et. al. Date 03/23/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2342619
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
 Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System Charging System 2JCHEL V0110P

5. (a) Applicable Construction Code ASME Sec III, Cl 2 19 74 Edition, W'75 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
VALVE	FISHER	6549793	4746	2JCHEL V110P	1979	Repaired	Yes
VALVE PLUG	FISHER	**	N/A	2JCHEL V110P	2001	Replacement	No
BONNET STUDS	FISHER	**	N/A	2JCHEL V110P	2001	Replacement	No
BONNET NUTS	FISHER	**	N/A	2JCHEL V110P	2001	Replacement	No
BONNET FLANGE	FISHER	**	N/A	2JCHEL V110P	2001	Replacement	No
BONNET	FISHER	**	NA	2JCHEL V110P	2001	Replacement	No

7. Description of Work REPLACE THE VALVE PLUG, BONNET FLANGE AND BONNET BOLTING

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Work Order 234619 replaced the valve plug , bonnet, bonnet flange, bonnet studs and nuts.

**The components were removed from a complete valve (APN 45003056, serial number 11949735), that was purchased from the warehouse.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed RLB Browning

RLB
Owner or Owner's Designee, Title

Date 3-24-01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-16-01 to 3-24-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RLB Browning
Inspector's Signature

Commissions NB 9685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date 3-24-01