

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 08/23/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2413887
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 III Class 1 19 71 Edition, W '73 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)
Steam Generator	CE	65273-1	22860	3MRCEE01A	1981	Repaired	Yes
Tube Plugs	Westinghouse	*	N/A	*	2001	Replacement	No

7. Description of Work Plug SG 3-1 Hot leg tubes per DFWO 2406659. See attached list.
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 2406659 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED).

W.O. 2413887

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

DBL

Owner or Owner's Designee, Title

SR CONSULTING ENGR

Date 10-22-2001

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 8-24-01 to 10-24-01, 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.

B L Hopton

Inspector's Signature

Commissions NS 9685 "N" "I" Az-264

National Board, State, Province, and Endorsements

Date OCTOBER 24, 2001

STEAM GENERATOR 3MRCEE01A "HOT LEG"

WORK ORDER 2413887

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
3MRCEE01A R79/C14	0307-1601	7857	J-9161-2	521386
3MRCEE01A R45/C30	0307-1601	7856	J-9161-2	521386
3MRCEE01A R66/C39	0307-1601	7877	J-9161-2	521386
3MRCEE01A R108/C39	0307-1601	7852	J-9161-2	521386
3MRCEE01A R127/C44	0307-1601	7851	J-9161-2	521386
3MRCEE01A R133/C48	0307-1601	7876	J-9161-2	521386
3MRCEE01A R134/C49	0307-1601	7879	J-9161-2	521386
3MRCEE01A R137/C52	0307-1601	7880	J-9161-2	521386
3MRCEE01A R145/C68	0307-1601	7881	J-9161-2	521386
3MRCEE01A R141/C80	0307-1601	7882	J-9161-2	521386
3MRCEE01A R35/C82	0307-1601	7858	J-9161-2	521386
3MRCEE01A R133/C82	0307-1601	7883	J-9161-2	521386
3MRCEE01A R132/C83	0307-1601	7884	J-9161-2	521386
3MRCEE01A R149/C86	0307-1601	7885	J-9161-2	521386
3MRCEE01A R44/C87	0307-1601	7861	J-9161-2	521386
3MRCEE01A R53/C88	0307-1601	7863	J-9161-2	521386
3MRCEE01A R140/C89	0307-1601	7886	J-9161-2	521386
3MRCEE01A R45/C90	0307-1601	7862	J-9161-2	521386
3MRCEE01A R47/C90	0307-1601	7878	J-9161-2	521386
3MRCEE01A R145/C90	0307-1601	7279	J-9161-1	521386
3MRCEE01A R45/C92	0307-1601	7872	J-9161-2	521386
3MRCEE01A R143/C92	0307-1601	7887	J-9161-2	521386
3MRCEE01A R142/C93	0307-1601	7888	J-9161-2	521386
3MRCEE01A R143/C94	0307-1601	7889	J-9161-2	521386

STEAM GENERATOR 3MRCEE01A "HOT LEG"

WORK ORDER 2413887

3MRCEE01A R44/C95	0307-1601	7869	J-9161-2	521386
3MRCEE01A R45/C96	0307-1601	7877	J-9161-2	521386
3MRCEE01A R159/C96	0307-1601	7254	J-9161-1	521386
3MRCEE01A R44/C97	0307-1601	7875	J-9161-2	521386
3MRCEE01A R144/C97	0307-1601	7890	J-9161-2	521386
3MRCEE01A R158/C97	0307-1601	7278	J-9161-1	521386
3MRCEE01A R45/C100	0307-1601	7874	J-9161-2	521386
3MRCEE01A R44/C103	0307-1601	7864	J-9161-2	521386
3MRCEE01A R36/C109	0307-1601	7866	J-9161-2	521386
3MRCEE01A R140/C109	0307-1601	7891	J-9161-2	521386
3MRCEE01A R54/C111	0307-1601	7860	J-9161-2	521386
3MRCEE01A R31/C112	0307-1601	7873	J-9161-2	521386
3MRCEE01A R54/C113	0307-1601	7867	J-9161-2	521386
3MRCEE01A R48/C115	0307-1601	7868	J-9161-2	521386
3MRCEE01A R145/C116	0307-1601	7251	J-9161-1	521386
3MRCEE01A R56/C117	0307-1601	7865	J-9161-2	521386
3MRCEE01A R108/C119	0307-1601	7892	J-9161-2	521386
3MRCEE01A R40/C123	0307-1601	7893	J-9161-2	521386
3MRCEE01A R48/C123	0307-1601	7870	J-9161-2	521386
3MRCEE01A R57/C124	0307-1601	7894	J-9161-2	521386
3MRCEE01A R112/C133	0307-1601	7280	J-9161-1	521386
3MRCEE01A R125/C134	0307-1601	7895	J-9161-2	521386
3MRCEE01A R103/C138	0307-1601	7896	J-9161-2	521386
3MRCEE01A R121/C138	0307-1601	7897	J-9161-2	521386
3MRCEE01A R118/C139	0307-1601	7898	J-9161-2	521386

STEAM GENERATOR 3MRCEE01A
"HOT LEG"

WORK ORDER 2413887

3MRCEE01A R129/C140	0307-1601	7899	J-9161-2	521386
3MRCEE01A R102/C161	0307-1601	7900	J-9161-2	521386

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEE01A 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #3-1
 4. N-5 Package Number 3RC01-2 5. W.O. Number 2414006
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL WESTINGHOUSE ROLL PLUGS IN 3MRCEE01A COLD LEG TUBES PER
ENGINEERING DFWO 2406661 EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 3R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENGINEERING DFWO 2406661.

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 08/23/01 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 08/23/01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date

MBN 08/23/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
MBN 08/23/01 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.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Michael B. Newell 8-23-01 Print Name MICHAEL B. NEWELL
 Signature Date
 20. ISI Engineer RP Indap 8-24-01 Print Name RAMAKANT P. INDAP
 Signature Date
 21. ANII Robert G. Hogstrom 8-24-01 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 08/23/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2414006
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 III Class 1 19 71 Edition, W '73 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)
Steam Generator	CE	65273-1	22860	3MRCEE01A	1981	Repaired	Yes
Tube Plugs	Westinghouse	*	N/A	*	2001	Replacement	No

7. Description of Work Plug SG 3-1 Cold leg tubes per DFWO 2406661. See attached list.

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 2406661 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED).

W.O. 2414006

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 10-22-01

Signed DSH

SR Consulting Eng
Owner or Owner's Designee, Title

Date 10-22-01

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 8-24-01 to 10-24-01, 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.

St J. Johnson
Inspector's Signature

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

Date OCTOBER 24, 2001

STEAM GENERATOR 3MRCEE01A "COLD LEG"

WORK ORDER 2414006

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
3MRCEE01A R79/C14	0307-1601	9867	J-9162-2	521386
3MRCEE01A R45/C30	0307-1601	9892	J-9162-2	521386
3MRCEE01A R66/C39	0307-1601	9893	J-9162-2	521386
3MRCEE01A R108/C39	0307-1601	9861	J-9162-2	521386
3MRCEE01A R127/C44	0307-1601	9854	J-9162-2	521386
3MRCEE01A R133/C48	0307-1601	9857	J-9162-2	521386
3MRCEE01A R134/C49	0307-1601	9856	J-9162-2	521386
3MRCEE01A R137/C52	0307-1601	9855	J-9162-2	521386
3MRCEE01A R145/C68	0307-1601	9876	J-9162-2	521386
3MRCEE01A R141/C80	0307-1601	9879	J-9162-2	521386
3MRCEE01A R35/C82	0307-1601	9872	J-9162-2	521386
3MRCEE01A R133/C82	0307-1601	9888	J-9162-2	521386
3MRCEE01A R132/C83	0307-1601	9890	J-9162-2	521386
3MRCEE01A R149/C86	0307-1601	9885	J-9162-2	521386
3MRCEE01A R44/C87	0307-1601	9865	J-9162-2	521386
3MRCEE01A R53/C88	0307-1601	9873	J-9162-2	521386
3MRCEE01A R140/C89	0307-1601	9880	J-9162-2	521386
3MRCEE01A R45/C90	0307-1601	9874	J-9162-2	521386
3MRCEE01A R47/C90	0307-1601	9863	J-9162-2	521386
3MRCEE01A R145/C90	0307-1601	9881	J-9162-2	521386
3MRCEE01A R45/C92	0307-1601	9866	J-9162-2	521386
3MRCEE01A R143/C92	0307-1601	9882	J-9162-2	521386
3MRCEE01A R142/C93	0307-1601	9895	J-9162-2	521386
3MRCEE01A R143/C94	0307-1601	9884	J-9162-2	521386

STEAM GENERATOR 3MRCEE01A "COLD LEG"

WORK ORDER 2414006

3MRCEE01A R44/C95	0307-1601	9869	J-9162-2	521386
3MRCEE01A R45/C96	0307-1601	9864	J-9162-2	521386
3MRCEE01A R159/C96	0307-1601	9886	J-9162-2	521386
3MRCEE01A R44/C97	0307-1601	9852	J-9162-2	521386
3MRCEE01A R144/C97	0307-1601	9878	J-9162-2	521386
3MRCEE01A R158/C97	0307-1601	9710	J-9162-2	521386
3MRCEE01A R45/C100	0307-1601	9853	J-9162-2	521386
3MRCEE01A R44/C103	0307-1601	9851	J-9162-2	521386
3MRCEE01A R36/C109	0307-1601	9862	J-9162-2	521386
3MRCEE01A R140/C109	0307-1601	9877	J-9162-2	521386
3MRCEE01A R54/C111	0307-1601	9870	J-9162-2	521386
3MRCEE01A R31/C112	0307-1601	9897	J-9162-2	521386
3MRCEE01A R54/C113	0307-1601	9871	J-9162-2	521386
3MRCEE01A R48/C115	0307-1601	9868	J-9162-2	521386
3MRCEE01A R145/C116	0307-1601	9891	J-9162-2	521386
3MRCEE01A R56/C117	0307-1601	9860	J-9162-2	521386
3MRCEE01A R108/C119	0307-1601	9875	J-9162-2	521386
3MRCEE01A R40/C123	0307-1601	9896	J-9162-2	521386
3MRCEE01A R48/C123	0307-1601	9859	J-9162-2	521386
3MRCEE01A R57/C124	0307-1601	9858	J-9162-2	521386
3MRCEE01A R112/C133	0307-1601	9899	J-9162-2	521386
3MRCEE01A R125/C134	0307-1601	9889	J-9162-2	521386
3MRCEE01A R103/C138	0307-1601	9883	J-9162-2	521386
3MRCEE01A R121/C138	0307-1601	9900	J-9162-2	521386
3MRCEE01A R118/C139	0307-1601	9887	J-9162-2	521386

STEAM GENERATOR 3MRCEE01A
"COLD LEG"

WORK ORDER 2414006

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3MRCEE01A R102/C161	0307-1601	9894	J-9162-2	521386

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEE01B 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #3-2
 4. N-5 Package Number 3RC01-2 5. W.O. Number 2414008
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL WESTINGHOUSE ROLL PLUGS IN 3MRCEE01B HOT LEG TUBES PER
ENGINEERING DFWO 2406663 EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 3R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENGINEERING DFWO 2406663.

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
MSW 08/23/01 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MSW 08/23/01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date

MSW 08/23/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date

MSW 08/23/01 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.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Michael B. Newell 8-23-01 Print Name MICHAEL B. NEWELL
 Signature Date
 20. ISI Engineer Ramakant P. Indap 8-24-01 Print Name RAMAKANT P. INDAP
 Signature Date
 21. ANII Robert G. Hogstrom 8-24-01 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 08/23/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2414008
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
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7. Description of Work Plug SG 3-2 Hot leg tubes per DFWO 2406663. See attached list.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
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FORM NIS-2 (Back)

9. Remarks SEE DFWO 2406663 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED).

W.O. 2414008

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 DON- SR CONSULTING ENGR Date 10-22-2001
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 8-24-01 to 10-23-01, 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.

[Signature]
Inspector's Signature

Commissions NB 4685 "N" "I" Az 264
National Board, State, Province, and Endorsements

Date OCTOBER 23, 2001

STEAM GENERATOR 3MRCEE01B "HOT LEG"

WORK ORDER 2414008

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
3MRCEE01B R6/C13	0307-1601	9723	J-9162-2	521386
3MRCEE01B R8/C13	0307-1601	9722	J-9162-2	521386
3MRCEE01B R81/C20	0307-1601	9711	J-9162-2	521386
3MRCEE01B R83/C22	0307-1601	9724	J-9162-2	521386
3MRCEE01B R95/C22	0307-1601	9702	J-9162-2	521386
3MRCEE01B R103/C26	0307-1601	9458	J-9162-2	521386
3MRCEE01B R37/C28	0307-1601	9721	J-9162-2	521386
3MRCEE01B R62/C29	0307-1601	9725	J-9162-2	521386
3MRCEE01B R102/C33	0307-1601	9712	J-9162-2	521386
3MRCEE01B R112/C33	0307-1601	9459	J-9162-2	521386
3MRCEE01B R81/C34	0307-1601	9713	J-9162-2	521386
3MRCEE01B R87/C36	0307-1601	9703	J-9162-2	521386
3MRCEE01B R95/C36	0307-1601	9705	J-9162-2	521386
3MRCEE01B R104/C37	0307-1601	9706	J-9162-2	521386
3MRCEE01B R114/C53	0307-1601	9795	J-9162-2	521386
3MRCEE01B R40/C55	0307-1601	9704	J-9162-2	521386
3MRCEE01B R112/C57	0307-1601	9796	J-9162-2	521386
3MRCEE01B R126/C57	0307-1601	9750	J-9162-2	521386
3MRCEE01B R113/C58	0307-1601	9797	J-9162-2	521386
3MRCEE01B R77/C60	0307-1601	9719	J-9162-2	521386
3MRCEE01B R110/C61	0307-1601	9451	J-9162-2	521386
3MRCEE01B R81/C62	0307-1601	9718	J-9162-2	521386
3MRCEE01B R103/C62	0307-1601	9707	J-9162-2	521386
3MRCEE01B R112/C63	0307-1601	9452	J-9162-2	521386

STEAM GENERATOR 3MRCEE01B

"HOT LEG"

WORK ORDER 2414008

3MRCEE01B R109/C66	0307-1601	9708	J-9162-2	521386
3MRCEE01B R100/C67	0307-1601	9748	J-9162-2	521386
3MRCEE01B R77/C74	0307-1601	9709	J-9162-2	521386
3MRCEE01B R111/C74	0307-1601	9791	J-9162-2	521386
3MRCEE01B R99/C76	0307-1601	9747	J-9162-2	521386
3MRCEE01B R68/C77	0307-1601	9453	J-9162-2	521386
3MRCEE01B R65/C80	0307-1601	9731	J-9162-2	521386
3MRCEE01B R69/C80	0307-1601	9736	J-9162-2	521386
3MRCEE01B R60/C81	0307-1601	9732	J-9162-2	521386
3MRCEE01B R62/C81	0307-1601	9733	J-9162-2	521386
3MRCEE01B R96/C81	0307-1601	9745	J-9162-2	521386
3MRCEE01B R102/C81	0307-1601	9749	J-9162-2	521386
3MRCEE01B R35/C82	0307-1601	9468	J-9162-2	521386
3MRCEE01B R97/C82	0307-1601	9746	J-9162-2	521386
3MRCEE01B R62/C83	0307-1601	9729	J-9162-2	521386
3MRCEE01B R64/C83	0307-1601	9730	J-9162-2	521386
3MRCEE01B R39/C84	0307-1601	9469	J-9162-2	521386
3MRCEE01B R69/C84	0307-1601	9737	J-9162-2	521386
3MRCEE01B R71/C84	0307-1601	9742	J-9162-2	521386
3MRCEE01B R102/C85	0307-1601	9790	J-9162-2	521386
3MRCEE01B R70/C87	0307-1601	9740	J-9162-2	521386
3MRCEE01B R76/C87	0307-1601	9743	J-9162-2	521386
3MRCEE01B R57/C88	0307-1601	9727	J-9162-2	521386
3MRCEE01B R59/C88	0307-1601	9728	J-9162-2	521386
3MRCEE01B R118/C89	0307-1601	9792	J-9162-2	521386

STEAM GENERATOR 3MRCEE01B "HOT LEG"

WORK ORDER 2414008

3MRCEE01B R69/C92	0307-1601	9738	J-9162-2	521386
3MRCEE01B R44/C93	0307-1601	9701	J-9162-2	521386
3MRCEE01B R69/C98	0307-1601	9739	J-9162-2	521386
3MRCEE01B R44/C99	0307-1601	9717	J-9162-2	521386
3MRCEE01B R65/C100	0307-1601	9734	J-9162-2	521386
3MRCEE01B R128/C101	0307-1601	9793	J-9162-2	521386
3MRCEE01B R65/C102	0307-1601	9735	J-9162-2	521386
3MRCEE01B R44/C103	0307-1601	9726	J-9162-2	521386
3MRCEE01B R152/C103	0307-1601	9794	J-9162-2	521386
3MRCEE01B R95/C104	0307-1601	9744	J-9162-2	521386
3MRCEE01B R70/C105	0307-1601	9741	J-9162-2	521386
3MRCEE01B R39/C106	0307-1601	9716	J-9162-2	521386
3MRCEE01B R36/C107	0307-1601	9715	J-9162-2	521386
3MRCEE01B R40/C109	0307-1601	9720	J-9162-2	521386
3MRCEE01B R134/C111	0307-1601	9454	J-9162-2	521386
3MRCEE01B R152/C115	0307-1601	9472	J-9162-2	521386
3MRCEE01B R43/C116	0307-1601	9714	J-9162-2	521386
3MRCEE01B R23/C118	0307-1601	9470	J-9162-2	521386
3MRCEE01B R115/C120	0307-1601	9467	J-9162-2	521386
3MRCEE01B R111/C122	0307-1601	9455	J-9162-2	521386
3MRCEE01B R110/C127	0307-1601	9456	J-9162-2	521386
3MRCEE01B R143/C128	0307-1601	9471	J-9162-2	521386
3MRCEE01B R125/C130	0307-1601	9460	J-9162-2	521386
3MRCEE01B R110/C133	0307-1601	9457	J-9162-2	521386
3MRCEE01B R92/C135	0307-1601	9789	J-9162-2	521386

STEAM GENERATOR 3MRCEE01B "HOT LEG"

WORK ORDER 2414008

3MRCEE01B R118/C139	0307-1601	9798	J-9162-2	521386
3MRCEE01B R103/C140	0307-1601	9799	J-9162-2	521386
3MRCEE01B R67/C144	0307-1601	9551	J-9162-2	521386
3MRCEE01B R100/C147	0307-1601	9556	J-9162-2	521386
3MRCEE01B R99/C154	0307-1601	9554	J-9162-2	521386
3MRCEE01B R99/C156	0307-1601	9555	J-9162-2	521386
3MRCEE01B R95/C158	0307-1601	9553	J-9162-2	521386
3MRCEE01B R102/C167	0307-1601	9557	J-9162-2	521386
3MRCEE01B R87/C172	0307-1601	9800	J-9162-2	521386
3MRCEE01B R67/C176	0307-1601	9552	J-9162-2	521386

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEE01B 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #3-2
 4. N-5 Package Number 3RC01-2 5. W.O. Number 2414011
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL WESTINGHOUSE ROLL PLUGS IN 3MRCEE01B COLD LEG TUBES PER ENGINEERING DFWO 2406664 EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 3R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENGINEERING DFWO 2406664.

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
 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
 If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

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 8-23-01 Print Name MICHAEL B. NEWELL
 Signature Date

20. ISI Engineer R. P. Indap 8-24-01 Print Name RAMAKANT P. INDAP
 Signature Date

21. ANII Robert G. Hogstrom 8-24-01 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 08/23/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2414011
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 III Class 1 19 71 Edition, W '73 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)
Steam Generator	CE	65273-2	22861	3MRCEE01B	1981	Repaired	Yes
Tube Plugs	Westinghouse	*	N/A	*	2001	Replacement	No

7. Description of Work Plug SG 3-2 Cold leg tubes per DFWO 2406664. See attached list.

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 2406664 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED).

W.O. 2414011

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 [Signature]

SR CONSULTING ENGR
Owner or Owner's Designee, Title

Date 10-22-2001

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 8-24-01 to 10-23-01, 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.

[Signature]
Inspector's Signature

Commissions NB 2685 "N" "I" Az 264
National Board, State, Province, and Endorsements

Date OCTOBER 23, 2001

STEAM GENERATOR 3MRCEE01B "COLD LEG"

WORK ORDER 2414011

ASME SECTION XI-REPAIR/REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
3MRCEE01B R6/C13	0307-1601	9477	J-9162-2	521386
3MRCEE01B R8/C13	0307-1601	9439	J-9162-2	521386
3MRCEE01B R81/C20	0307-1601	9480	J-9162-2	521386
3MRCEE01B R83/C22	0307-1601	9489	J-9162-2	521386
3MRCEE01B R95/C22	0307-1601	9481	J-9162-2	521386
3MRCEE01B R103/C26	0307-1601	9482	J-9162-2	521386
3MRCEE01B R37/C28	0307-1601	9441	J-9162-2	521386
3MRCEE01B R62/C29	0307-1601	9423	J-9162-2	521386
3MRCEE01B R102/C33	0307-1601	9436	J-9162-2	521386
3MRCEE01B R112/C33	0307-1601	9486	J-9162-2	521386
3MRCEE01B R81/C34	0307-1601	9488	J-9162-2	521386
3MRCEE01B R87/C36	0307-1601	9461	J-9162-2	521386
3MRCEE01B R95/C36	0307-1601	9483	J-9162-2	521386
3MRCEE01B R104/C37	0307-1601	9479	J-9162-2	521386
3MRCEE01B R114/C53	0307-1601	9424	J-9162-2	521386
3MRCEE01B R40/C55	0307-1601	9487	J-9162-2	521386
3MRCEE01B R112/C57	0307-1601	9434	J-9162-2	521386
3MRCEE01B R126/C57	0307-1601	9433	J-9162-2	521386
3MRCEE01B R113/C58	0307-1601	9437	J-9162-2	521386
3MRCEE01B R77/C60	0307-1601	9466	J-9162-2	521386
3MRCEE01B R110/C61	0307-1601	9425	J-9162-2	521386
3MRCEE01B R81/C62	0307-1601	9478	J-9162-2	521386
3MRCEE01B R103/C62	0307-1601	9462	J-9162-2	521386
3MRCEE01B R112/C63	0307-1601	9440	J-9162-2	521386

STEAM GENERATOR 3MRCEE01B "COLD LEG"

WORK ORDER 2414011

3MRCEE01B R109/C66	0307-1601	9485	J-9162-2	521386
3MRCEE01B R100/C67	0307-1601	9476	J-9162-2	521386
3MRCEE01B R77/C74	0307-1601	9444	J-9162-2	521386
3MRCEE01B R111/C74	0307-1601	9475	J-9162-2	521386
3MRCEE01B R99/C76	0307-1601	9484	J-9162-2	521386
3MRCEE01B R68/C77	0307-1601	9463	J-9162-2	521386
3MRCEE01B R65/C80	0307-1601	9465	J-9162-2	521386
3MRCEE01B R69/C80	0307-1601	9474	J-9162-2	521386
3MRCEE01B R60/C81	0307-1601	9464	J-9162-2	521386
3MRCEE01B R62/C81	0307-1601	9473	J-9162-2	521386
3MRCEE01B R96/C81	0307-1601	9409	J-9162-2	521386
3MRCEE01B R102/C81	0307-1601	9401	J-9162-2	521386
3MRCEE01B R35/C82	0307-1601	9499	J-9162-2	521386
3MRCEE01B R97/C82	0307-1601	9431	J-9162-2	521386
3MRCEE01B R62/C83	0307-1601	9412	J-9162-2	521386
3MRCEE01B R64/C83	0307-1601	9492	J-9162-2	521386
3MRCEE01B R39/C84	0307-1601	9410	J-9162-2	521386
3MRCEE01B R69/C84	0307-1601	9411	J-9162-2	521386
3MRCEE01B R71/C84	0307-1601	9494	J-9162-2	521386
3MRCEE01B R102/C85	0307-1601	9447	J-9162-2	521386
3MRCEE01B R70/C87	0307-1601	9500	J-9162-2	521386
3MRCEE01B R76/C87	0307-1601	9448	J-9162-2	521386
3MRCEE01B R57/C88	0307-1601	9413	J-9162-2	521386
3MRCEE01B R59/C88	0307-1601	9490	J-9162-2	521386
3MRCEE01B R118/C89	0307-1601	9446	J-9162-2	521386

STEAM GENERATOR 3MRCEE01B
"COLD LEG"

WORK ORDER 2414011

3MRCEE01B R69/C92	0307-1601	9408	J-9162-2	521386
3MRCEE01B R44/C93	0307-1601	9403	J-9162-2	521386
3MRCEE01B R69/C98	0307-1601	9491	J-9162-2	521386
3MRCEE01B R44/C99	0307-1601	9498	J-9162-2	521386
3MRCEE01B R65/C100	0307-1601	9405	J-9162-2	521386
3MRCEE01B R128/C101	0307-1601	9445	J-9162-2	521386
3MRCEE01B R65/C102	0307-1601	9407	J-9162-2	521386
3MRCEE01B R44/C103	0307-1601	9497	J-9162-2	521386
3MRCEE01B R152/C103	0307-1601	9443	J-9162-2	521386
3MRCEE01B R95/C104	0307-1601	9430	J-9162-2	521386
3MRCEE01B R70/C105	0307-1601	9493	J-9162-2	521386
3MRCEE01B R39/C106	0307-1601	9496	J-9162-2	521386
3MRCEE01B R36/C107	0307-1601	9402	J-9162-2	521386
3MRCEE01B R40/C109	0307-1601	9495	J-9162-2	521386
3MRCEE01B R134/C111	0307-1601	9435	J-9162-2	521386
3MRCEE01B R152/C115	0307-1601	9429	J-9162-2	521386
3MRCEE01B R43/C116	0307-1601	9404	J-9162-2	521386
3MRCEE01B R23/C118	0307-1601	9406	J-9162-2	521386
3MRCEE01B R115/C120	0307-1601	9449	J-9162-2	521386
3MRCEE01B R111/C122	0307-1601	9426	J-9162-2	521386
3MRCEE01B R110/C127	0307-1601	9442	J-9162-2	521386
3MRCEE01B R143/C128	0307-1601	9428	J-9162-2	521386
3MRCEE01B R125/C130	0307-1601	9427	J-9162-2	521386
3MRCEE01B R110/C133	0307-1601	9421	J-9162-2	521386
3MRCEE01B R92/C135	0307-1601	9422	J-9162-2	521386

STEAM GENERATOR 3MRCEE01B "COLD LEG"

WORK ORDER 2414011

3MRCEE01B R118/C139	0307-1601	9438	J-9162-2	521386
3MRCEE01B R103/C140	0307-1601	9432	J-9162-2	521386
3MRCEE01B R67/C144	0307-1601	9415	J-9162-2	521386
3MRCEE01B R100/C147	0307-1601	9420	J-9162-2	521386
3MRCEE01B R99/C154	0307-1601	9419	J-9162-2	521386
3MRCEE01B R99/C156	0307-1601	9418	J-9162-2	521386
3MRCEE01B R95/C158	0307-1601	9417	J-9162-2	521386
3MRCEE01B R102/C167	0307-1601	9416	J-9162-2	521386
3MRCEE01B R87/C172	0307-1601	9450	J-9162-2	521386
3MRCEE01B R67/C176	0307-1601	9414	J-9162-2	521386

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEL032 2. Code Class ASME SECTION III, CLASS 1
3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 PIPING
4. N-5 Package Number 3RC01-2 5. W.O. Number 2428231
6. Original Construction Code Edition ASME SECTION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADDENDA
8. Work Description Install a Mechanical Nozzle Seal Assembly (MNSA) on the RCS piping to stop the RCS leakage at RTD nozzle location 3JRCDTW0112HD. Reference DFWO 2427755.
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.
Evaluation of the installation of the MNSA is described in engineering DFWO 2427755..
11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, Cl 1, 1989 Edition
13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Cl 1, 1974 Ed., Winter 1975 Addenda
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda, NRC Relief Request, NRC Docket number STN 50-530
15. Preservice Inspection Required. ☒ YES ☐ NO
Initial 10/16/01 Date If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Initial 10/16/01 Date If required, include a step in the W.O. for ISI & ANII Inspection.
- Initial 10/16/01 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
- Initial 10/16/01 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
MNSA Assembly	APN 58609	N/A	HT-Y 2247-3B HT = 25050-80 HT = 50265	MR 583654 -1
Compression Collar	APN 00067103	N/A	HT# 40873	MR# 586571

19. Planner [Signature] 10/16/01 Date Print Name Herbert L. Green
20. ISI Engineer R. INDRAP 10/16/01 Date Print Name HERBERT GREEN PER TELECON R. INDRAP
21. ANII [Signature] 10-16-01 Date Print Name ROBERT G. HUGSTON

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 10/16/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2428231
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
P.O. Box 53999, Phoenix, Arizona 85072-7529 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Reactor Coolant System, line number 3PRCEL032, Spool 001

5. (a) Applicable Construction Code ASME Sec. III 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)
3JRCDTW0112HD	Combustion Eng.	N/A	N/A	N/A	1982	Repaired	Yes

7. Description of Work Install a Mechanical Nozzle Seal Assembly (MNSA) iaw DFWO 2427755.

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 Install a Mechanical Nozzle Seal Assembly (MNSA) on the RCS piping to stop the RCS leakage at RTD nozzle location 3JRCDTW0112HD. Reference DFWO 2427755.

W.O. 2428231

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 R.L. BROWN, JR. RLB ISI ENGINEER Date 11/2/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-16-01 to 11-2-01, 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.

R. L. Brown, Jr. Commissions NS 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PCHBV337 2. Code Class ASME SECT. III, CLASS 2
 3. Item Description UNIT 3 CHARGING PUMP "B" DISCHARGE ISOLATION VALVE
 4. N-5 Package Number 3CH04-1 5. W.O. Number 2429127
 6. Original Construction Code Edition 1974 EDITION THRU S'75 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU W'75 ADDENDA
 8. Work Description REMOVE EXISTING SOCKET WELDED GLOBE VALVE AND INSTALL NEW BUTT WELDED GATE VALVE

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.
REPLACED BY AUTHORIZATION OF DFWO 2423453

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE COMPANY
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT III CL 1 '74 EDITION W'75 ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT CL 2 '74 EDITION W'75 ADD
 14. ASME Section XI Code/Edition 1992 EDITION W'92 ADD

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 10/07/01 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Initial 10/07/01 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 10/07/01 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 10/07/01 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2" Butt welded gate valve	45002782	901-6-0137		00583355-0001

19. Planner Glenn E Moore 10/07/01 Date Print Name Glenn E Moore
 20. ISI Engineer R.L. Brown 10/8/01 Date Print Name R.L. BROWN
 21. ANII R.G. Hogstrom 10-8-01 Date Print Name R.G. HOGSTROM

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 10/07/01
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034
Address

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529
Address

Unit 3

2429127

Work Order Number

3. Work Performed by Arizona Public Service Co.
Name

Type Code Symbol Stamp None

Authorization No. N/A

5801 S. Wintersburg Rd., Tonopah, Az. 85354
Address

Expiration Date N/A

4. Identification of System Chemical 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)
2" Gate Valve	Borg Warner	901-L-0137	N/A	3PCHBV337	1982	Replacement	Yes

7. Description of Work Remove existing globe valve and install new gate valve.

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 Valve 3PCHBV337 is difficult to operate and will be replaced with a new butt welded gate valve.
Work Order 2429127

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 11/2/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-8-01 to 11-2-01, 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.

Ret B Hyatt Commissions NB 9685 "N" "I" Az 264
(Inspector's Signature) National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MEWAE01 2. Code Class ASME Section III, Cl 3
3. Item Description Essential Cooling Water Heat Exchanger "A"
4. N-5 Package Number 3EW01-1 5. W.O. Number 2430049
6. Original Construction Code Edition 1974 Edition thru W'75 Addenda
7. Original Installation Code Edition 1974 Edition thru W'75 Addenda
8. Work Description Weld material repair of the East end channel head and east and west end channel covers..
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 metal surfaces prior to periodic coating. Minor corrosion due to coating damage.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Sec. III Cl.3/ '74 Edition, W'75 Addenda
13. Repair/Replacement Activity Construction Code/Edition Sec. III Cl.3/ '74 Edition, W'75 Addenda
14. ASME Section XI Code/Edition 1992 Edition and '92 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 10/6/01 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Initial 10/6/01 Date If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 10/6/01 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 10/6/01 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3MEWAE01	N/A	N/A	N/A	N/A

19. Planner Herbert Green 10/6/01 Signature Date Print Name HERBERT GREEN

20. ISI Engineer Aidan Morrow 10/6/01 Signature Date Print Name Aidan Morrow

21. ANII B. Hogstern 10/6/01 Signature Date Print Name HERBERT GREEN / B. Hogstern

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 10/06/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2430049
Address Work Order Number

3. Work Performed by Arizona Public Service Co. 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 (EW) Essential Cooling Water

5. (a) Applicable Construction Code Section III, Cl. 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
A EW Ht. Exch.	Struther Wells	1760632913	14441	MEWAE01	'78	Repaired	Yes

7. Description of Work Weld 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 or erroded area designated by engineering in the 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 [Signature] Consulting Met. Engineer Date 10-12-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-6-01 to 10-12-01, 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.

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

Date OCTOBER 12, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEL018, 3PRCEV244 2. Code Class ASME Section III, Cl 1
 3. Item Description Pzr spray line and installed check valve
 4. N-5 Package Number 3RC03-2 5. W.O. Number 2431286
 6. Original Construction Code Edition 1974 Edition, thru W'75 Addenda
 7. Original Installation Code Edition 1974 Edition, thru W'75 Addenda
 8. Work Description Replace the installed check valve body (3PRCEV244) with new pipe per Appendix "A" of
ENG-DMWO #219184 and EDC #1998-00653.

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.
Check Valve is being replaced to eliminate a RCS leak path from the pressure seal body to bonnet joint. No leak
or flaw has been detected in the pressure boundary.

11. Repair/Replacement Work Organization Arizona Public Service
 12. Replacement Item Construction or reconciled Code/Edition 1974 Edition, thru W'75 Addenda
 13. Repair/Replacement Activity Construction Code/Edition 1974 Edition, thru W'75 Addenda
 14. ASME Section XI Code/Edition 1992 Edition, '92 Addenda

15. Preservice Inspection Required. ☒ YES ☐ NO
DWS 10/14/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
DWS 10/14/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DWS 10/14/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DWS 10/14/01 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.
4.0" PIPE	N/A	N/A	0810607	586952-0002

19. Planner David W. Shaffer 10/15/01 Print Name David Shaffer
Signature Date
 20. ISI Engineer Fred Poteet 10/15/01 Print Name FRED POTEET
Signature Date
 21. ANII Robert G. Hugstrom 10-16-01 Print Name ROBERT G. HUGSTROM
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 10/14/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2431286
Address Work Order Number

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

4. Identification of System Reactor Coolant (RC)

5. (a) Applicable Construction Code Section III, Cl 1 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)
4.0" Pipe	N/A	N/A	N/A	3PRCEL018	2001	Replacement	No

7. Description of Work Replace existing Pzr spray line check valve (3PRCEV244) with 4.0" pipe.

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 DI-WO # 2431286.

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.L. BROWNING RLB ISI Engineer Date 11/2/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-16-01 to 11-2-01, 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.

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PSIAL241 2. Code Class 2
 3. Item Description "A" TRAIN LPSI SUCTION PIPING FROM SHUT DOWN COOLING
 4. N-5 Package Number 3SI07-3 5. W.O. Number 2431785
 6. Original Construction Code Edition ASME SECT. III, CL2, 1974 EDITION W'75 ADD
 7. Original Installation Code Edition ASME SECT. III, CL 2, 1974 EDITION W'75 ADD
 8. Work Description WELD REPAIR THE PIPING THAT WAS DAMAGED BY WELDING ARC.

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.
Accidental arc strike. Being reworked to original wall thickness. RPI 10-12-01

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 14. ASME Section XI Code/Edition ASME SECT. XI, 1992 EDITION 92 ADD

15. Preservice Inspection Required. ☐ YES ☒ NO
N/A 10/12/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
JD 10/12/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
JD 10/12/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
JD 10/12/01 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.

19. Planner [Signature] 10/12/01 Print Name JAMES I. DAVIS
Signature Date
 20. ISI Engineer Alan Morrow 10/12/01 Print Name RAMAKANT INDAP Alan Morrow
Signature Date w/ PER TELECON
 21. ANII [Signature] 10-12-01 Print Name ROBERT HOGSTROM PER TELECON
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 10-13-01

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

2. Plant Palo Verde Nuclear Generating Station Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2431785
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 Safety Injection

5. (a) Applicable Construction Code ASME Sec III, Cl 2 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)
PIPE SPOOL	PULLMAN POWER	9469	N/A	3PSIAL241	1978	Repaired	Yes

7. Description of Work REPAIR THE WELDING ARC DAMAGE.

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 2431785 repaired the piping that was accidentally damaged by a welding arc strike.
The work order excavated the area, weld repaired and blended to the original contour.

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 Alan Morrow Sr ISI Engineer Date 10/13/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-12-01 to 10-13-01, 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.

[Signature]
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 13, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MEWBE01 2. Code Class ASME Section III, Cl 3
 3. Item Description Essential Cooling Water Heat Exchanger "B"
 4. N-5 Package Number 3EW02-2 5. W.O. Number 2433026
 6. Original Construction Code Edition 1974 Edition thru W'75 Addenda
 7. Original Installation Code Edition 1974 Edition w W'75 Addenda
 8. Work Description Perform weld repairs to the West End Channel Head on the floor area.

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 metal surfaces prior to periodic coating. Minor corrosion due to coating damage.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition Sec.III Cl. 3 /'74 Edition, W'75 Addenda
 13. Repair/Replacement Activity Construction Code/Edition Sec.III Cl. 3 /'74 Edition, W'75 Addenda
 14. ASME Section XI Code/Edition 1992 Edition and '92 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
 Initial [Signature] Date 10/17/01 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
 Initial [Signature] Date 10/17/01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial [Signature] Date 10/17/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial [Signature] Date 10/17/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3MEWBE01	N/A	N/A	N/A	N/A

19. Planner [Signature] 10/17/01 Print Name Glenn E. Moore
 Signature Date
 20. ISI Engineer [Signature] 10-17-01 Print Name Wiley J. Ahlstrom
 Signature Date
 21. ANII [Signature] 10-17-01 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 10/17/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2433026
Address Work Order Number
3. Work Performed by Arizona Public Service Co. 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 (EW) Essential Cooling Water

5. (a) Applicable Construction Code Section III, Cl.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)
B EW Ht. Exch.	Struthers Wells	17606329152	N/A	MEWBE01	80	Repaired	Yes

7. Description of Work _____

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 N-416-1, Performed weld repair/build-up of eroded area designated by engineering in the Spray Pond side of the Heat Exchanger. (w.o. 2433026)

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 Alan Monow ISI Engineer Date 10/24/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-01 to 10-25-01, 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.

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

Date OCTOBER 25, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCBH0108 2. Code Class ASME SECTION III CLASS 1
3. Item Description 1 INCH SOENOID OPERATED VALVE MODEL 98F-001 (TARGET ROCK)
4. N-5 Package Number 3-RC03-3 5. W.O. Number SWMS#00-00219434
6. Original Construction Code Edition 1977 EDITION, ADDENDA WINTER 1978
7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1974
8. Work Description REMOVE AND REPLACE VALVE PER PLANT CHANGE TO NEW STYLE VALVE
1 INCH MODEL# 98F-001
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.
BEING REPLACED PER PLANT CHANGE. NO FAILURE OF ASME SECTION III BOUNDRY.
(SEE SWMS# 00-00219434) RPT 9/21/00
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1977 EDITION, ADDENDA WINTER 1978
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1974
14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required.

☐ YES ☒ NO

RCO 9/18/00 Initial Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☐ YES ☒ NO

RCO 9/18/00 Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.

RCO 9/18/00 Initial Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

RCO 9/18/00 Initial Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JRCBH0108	98F-001	5	N/A	00456183-0010

19. Planner G. Osmundson 9/18/00 Signature Date Print Name GERALD OSMUNDSON

20. ISI Engineer R. P. Indap 9/21/00 Signature Date Print Name R. P. INDAP

21. ANII R. G. Hueston 9-21-00 Signature Date Print Name R. G. Hueston

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 09/20/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00-00219434
Address Work Order Number
 3. Work Performed by APS 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 74 Edition, 75W 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	Target Rock	5	N/A	3jrcbhv0108	2000	Replacement	Yes

7. Description of Work Remove valve and install new style 1 INCH valve model# 98F-001

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.D. 00-00219434

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 Sr. Engineer Date 9-30-00
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 9-21-00 to 9-30-00, 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]
Inspector's Signature

Commissions NB 9685 "I" "N" Az. 264
National Board, State, Province, and Endorsements

Date 9-30-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCBHV0109 2. Code Class ASME SECTION III CLASS 1
 3. Item Description 1 INCH SOENOID OPERATED VALVE MODEL 98F-001 (TARGET ROCK)
 4. N-5 Package Number 3-RC03-3 5. W.O. Number SWMS#00-00219435
 6. Original Construction Code Edition 1977 EDITION, ADDENDA WINTER 1978
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1974 ^{AP 10-28-01} 1975
 8. Work Description REMOVE AND REPLACE VALVE PER PLANT CHANGE TO NEW STYLE VALVE
1 INCH MODEL# 98F-001

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.
BEING REPLACED PER PLANT CHANGE. NO FAILURE OF ASME SECTION III BOUNDARY.
(SEE SWMS #00-00219435) RPI 9/21/00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1989 EDITION ^{AP 10-28-01} 1977 EDITION, ADDENDA WINTER 1978
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1974 ^{AP 10-28-01} 1975
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
Geo 9/18/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Geo 9/18/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
Geo 9/18/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Geo 9/18/00 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.
3JRCBHV0109	98F-001	7	N/A	570709-0001

19. Planner G Osmundson 9/18/00 Print Name GERALD OSMUNDSON
Signature Date
 20. ISI Engineer R P Indap 9/21/00 Print Name R. P. INDAP
Signature Date
 21. ANII Robt S. Hestrom 9-21-00 Print Name Robt Hestrom
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 09/20/00
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00-00219435
Address Work Order Number

3. Work Performed by APS 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 74 Edition, 75W 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	Target Rock	7	N/A	3jrcbhv0109	2000	Replacement	Yes

7. Description of Work Remove valve and install new style 1 INCH valve model# 98F-001

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. 00-00219435

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] SR. ISI ENGINEER Date 10-28-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 10-28-01, 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.

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

Date OCTOBER 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI067H003 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 3SI07-3 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of snubber with Rigid Strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection 4187
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC# 94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition, '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-8-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- SDC 9-8-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-8-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-8-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI067H003	Strut#396129	N/A	N/A	PL0182621
	Rear Bracket #356959	N/A	N/A	ROS#90413687
	Pipe Clamp#364163	N/A	N/A	PL0182621

19. Planner [Signature] 9-8-98 Print Name J. Cruse
Signature Date
20. ISI Engineer [Signature] 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII [Signature] 9-9-98 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

Owner Arizona Public Service Company, et. al.

Date 08/06/98

P. O. Box 53999, Phoenix, Arizona 85072-2034

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

W.O.#684229

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

3. Work Performed by APS

Type Code Symbol Stamp None

Same as (Item#2)

Authorization No. N/A

Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III,,NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI067H003	2001	Replacement	No
Rear Bracket	Lisega	N/A	N/A	3SI067H003	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3SI067H003	2001	Replacement	No

7. Description of Work Replacement of snubber with Rigid Strut.

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

Exempt ☒ 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)

J. Remarks W.O>#684229

3-SI-067-H003

Rear End Bracket welding was done on 06-20-97 under ASME Section XI /'80 W '81

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] ISI ENGINEER
Owner or Owner's Designee, Title

Date 10-13-01

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 9-9-98 to 10-14-01, and state that to the best of my knowledge and 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]
Inspector's Signature
Date OCTOBER 14 10 2001

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

ASME SECTION XI - REPAIR/REPLACEMENT

- Component ID 3CH142H003 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 3CH02-5 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of snubber with Rigid Strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC #94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition, '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3CH142H003	Strut #3962RR1	N/A	N/A	ROS#PL0182621
				PL0182621

19. Planner J. Cruse 9-7-98 Print Name J. Cruse
Signature Date
- ISI Engineer R.P. Indap 9-9-98 Print Name R.P. INDAP
Signature Date
21. ANII R.G. Hogstrom 9-9-98 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

- Owner Arizona Public Service Company, et. al. Date 08/06/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item#2) Expiration Date N/A
Address
 4. Identification of System SI
 5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3CH142H003	1991	Replacement	No

7. Description of Work Replacement of snubber with Rigid Strut I.A.W. EDC#94-00467
 8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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.#684229

3CH142H003

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]* ISI ENGINEER Date 10-13-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-9-98 to 10-13-01, and state that to the best of my knowledge and 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 OCTOBER 13 10 2001 by 10-13-01

ASME SECTION XI - REPAIR/REPLACEMENT

- Component ID 3CH424H002 2. Code Class ASME III, NF / CLASS 2
3. Item Description Snubber
4. N-5 Package Number 3SI01-1 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1975 Edition, Winter 1975 Addenda
8. Work Description Replacement of snubber with Rigid Strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC#94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3CH424H002	Strut #395049	N/A	N/A	ROS#90413681
	Rear Bracket #355959	N/A	N/A	PL0038465
	Rear Bracket#355959	N/A	N/A	ROS#90399539

19. Planner [Signature] 9-7-98 Print Name J. Cruse
Signature Date
20. ISI Engineer [Signature] 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII [Signature] 9-9-98 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

Owner Arizona Public Service Company, et. al. Date 08/06/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item#2) Expiration Date N/A
Address
 4. Identification of System SI

5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3CH424H002	2001	Replacement	No
Rear Brackets	Lisega	N/A	N/A	3CH424H002	2001	Replacement	No

7. Description of Work Replacement of snubber with Rigid Strut I.A.W. EDC#94-00467

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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.#684229

3CH424H002

CERTIFICATE OF COMPLIANCE

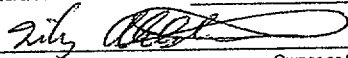
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed



ISI ENGINEER

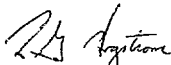
Date 10-13-01

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-2-98 to 10-14-01, and state that to the best of my knowledge and 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.



Inspector's Signature

Commissions

JB 9685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date OCTOBER

14

10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

- Component ID 3CH424H003 2. Code Class ASME III, NF / CLASS 2
3. Item Description Snubber
4. N-5 Package Number 3SI01-1 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of snubber with Rigid Strut
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC#94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3CH424H003	Strut #396079	N/A	N/A	ROS#90413682
	Rear Bracket #356959	N/A	N/A	PL0039445
	Pipe Clamp #375161	N/A	N/A	PL0182621

19. Planner James D. Cruse 9-7-98 Print Name J. Cruse
Signature Date
20. ISI Engineer R.P. Indap 9-9-98 Print Name R.P. INDAP
Signature Date
21. ANII R.G. Hogstrom 9-9-98 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

Owner Arizona Public Service Company, et. al.

Date 08/06/98

P. O. Box 53999, Phoenix, Arizona 85072-2034

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

W.O.#684229

3. Work Performed by APS

Type Code Symbol Stamp None

Same as (Item#2)

Authorization No. N/A

Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3CH424H003	2001	Replacement	No
Rear Bracket	Lisega	N/A	N/A	3CH424H003	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3CH424H003	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W.EDC#94-00467

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

Exempt ☒ 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)

Remarks W.O.#684229

3CH424H003

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 WILEY AHLSTROM ISI ENGINEER Date 10-13-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-9-98 to 10-14-01, and state that to the best of my knowledge and 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.

Wiley Ahlstrom
Inspector's Signature

Commissions NS 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 14 10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI002H002 2. Code Class ASME III, NF / CLASS 2
3. Item Description Snubber
4. N-5 Package Number 3SI07-3 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of Snubber with Rigid Strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC#94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition, '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI002H002	Strut # 396049RR1	N/A	N/A	PL0196641 RMB 09/24/01 00561014

19. Planner Jamie D. Cruse Sr. 9-7-98 Print Name J. Cruse
Signature Date
20. ISI Engineer R.P. Indap 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII R.G. Hogstrom 9-9-98 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

Owner Arizona Public Service Company, et. al.

Date 08/07/98

P. O. Box 53999, Phoenix, Arizona 85072-2034

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

W.O.#684229

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

3. Work Performed by APS

Type Code Symbol Stamp None

Same as (Item# 2)

Authorization No. N/A

Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI002H002	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut.

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

Exempt ☒ 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.#684229
3SI002H002

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

Willis [Signature] ISI ENGINEER

Owner or Owner's Designee, Title

Date 10-13-01

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 9-2-98 to 10-13-01, 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.

[Signature]

Inspector's Signature

Commissions NS 9685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date OCTOBER

13

19 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI002H004 2. Code Class ASME III, NF / CLASS 2
 3. Item Description SNUBBER
 4. N-5 Package Number 3SI07-3 5. W.O. Number 684229
 6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
 7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
 8. Work Description Replacement of Snubber with Rigid Strut.

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.
Design Mod. I.A.W. EDC# 94-00467, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition Subsection NF, CLASS 2 / 74 Edition, '75 Winter Adde
 13. Repair/Replacement Activity Construction Code/Edition SAME AS (ITEM #12)
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. NO ☒ YES ☒ NO
RMB 07/31/01 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
RMB 07/31/01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
RMB 07/31/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
RMB 07/31/01 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.
3SI002H004	STRUT#395049S	N/A	N/A	90413683
	Rear bracket#355959	N/A	N/A	<u>PLO523452</u>
	Pipe clamp #362261	N/A	N/A	<u>PLO523452</u>

19. Planner Robert M. Burtzell 08/09/01 Print Name Robert M Burtzell
 Signature Date
 20. ISI Engineer R.P. Indap 8/14/01 Print Name R.P. Indap
 Signature Date
 21. ANII R. G. Hogstrom 8-14-01 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

Owner Arizona Public Service Company, et. al. Date 08/05/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item#2) Expiration Date N/A
Address
 4. Identification of System SI

5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI002H004	2001	Replacement	No
Rear Bracket	Lisega	N/A	N/A	3SI002H004	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3SI002H004	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W.EDC#94-00467

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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.#684229
3SI002H004

CERTIFICATE OF COMPLIANCE

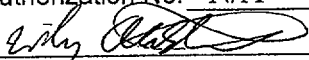
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed



ISI ENGINEER

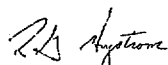
Date 10-13-01

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-14-01 to 10-14-01, 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.



Inspector's Signature

Commissions

NB 4685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date

OCTOBER

14

10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI009H001 2. Code Class ASME III, NF / CLASS 2
 3. Item Description SNUBBER
 4. N-5 Package Number 3SI01-2 5. W.O. Number 684229 / #216570
 6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
 7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
 8. Work Description Replacement of Snubber with Rigid Strut.

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.
Design Mod I.A.W. EDC# 94-00467, SNUBBER Being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition Subsection NF, Class-2 / 74 Edition '75 Winter Addend
 13. Repair/Replacement Activity Construction Code/Edition (Same as Item #12)
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☒ YES ☐ NO
RMB 08/14/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
RMB 08/14/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

RMB 08/14/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
RMB 08/14/01 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.
3SI009H001	STRUT # 396079	N/A	N/A	ROS#90398233
	Rear Bracket #356959	N/A	N/A	FL0523452
	Pipe Clamp #363263	N/A	N/A	ROS#90397384

19. Planner Robert M. Burtzell 08-10-2001 Print Name Robert M. Burtzell
Signature Date
 20. ISI Engineer R.P. Indap 8/14/01 Print Name R.P. Indap
Signature Date
 21. ANII R.G. Hogstrom 8-14-01 Print Name R.G. Hogstrom
Signature Date

* PO# 500214346.09
 QCIT ONLY RMB 10/02/2001

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

As Required by the Provisions of the ASME Code Section XI

- Owner Arizona Public Service Company, et. al. Date 08/05/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item# 2) Expiration Date N/A
Address
4. Identification of System SI
5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI009H001	2001	Replacement	No
R-Bracket	Lisega	N/A	N/A	3SI009H001	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3SI009H001	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W. EDC#94-00467
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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. #684229

3SI009H001

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] ISI ENGINEER Date 10-13-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-14-01 to 10-13-01, and state that to the best of my knowledge and 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]
Inspector's Signature

Commissions NB 9685 "N" "I" Az-264

National Board, State, Province, and Endorsements

Date OCTOBER 13 19 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI067H001 2. Code Class ASME III, NF / Class 2
3. Item Description Snubber
4. N-5 Package Number 3SI07-3 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of Snubber With Rigid Strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC# 94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI067H001	Strut #395079RR1	N/A	N/A	PL0182621

19. Planner J. Cruse 9-7-98 Print Name J. Cruse
Signature Date
20. ISI Engineer R. P. Indap 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII R. G. Hogstrom 9-9-98 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

Owner Arizona Public Service Company, et. al.

Date 08/06/98

P. O. Box 53999, Phoenix, Arizona 85072-2034

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

#684229

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

3. Work Performed by APS

Type Code Symbol Stamp None

Same as (Item#2)

Authorization No. N/A

Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III,NF / CI 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI067H001	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W. EDC#94-00467

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

Exempt ☒ 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.#684229

3SI067H001

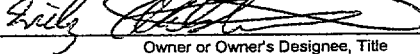
CERTIFICATE OF COMPLIANCE

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

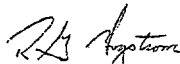
Expiration Date N/A

Signed  ISI ENGINEER Date 10-13-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-9-98 to 10-13-01, and state that to the best of my knowledge and 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.


Inspector's Signature

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

Date OCTOBER 13 19 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI241H007 2. Code Class ASME III, NF / CLASS 2
 3. Item Description SNUBBER
 4. N-5 Package Number 3SI07-3 5. W.O. Number LEGACY #00684229 / 216570
 6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description REPLACEMENT OF SNUBBER WITH RIGID STRUT.

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.
DESIGN MOD I.A.W. EDC# 94-00467. SNUBBERS BEING REPLACED WITH RIGID STRUTS.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition Subsection, NF, Class 2 /74 Edition, '75 Winter Addend
 13. Repair/Replacement Activity Construction Code/Edition SAME AS (ITEM #12)
 14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO
RMB 09-12-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
RMB 09-12-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
RMB 09-12-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
RMB 09-12-2001 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.
3SI241H007	STRUT #395049S	N/A	N/A	956 048 218
	R-BRACKET #355959	N/A	N/A	PL0039445
	PIPE CLAMP #364661	N/A	N/A	PL0182621

19. Planner Robert M. Burtzell 09-12-2001 Print Name ROBERT M. BURTSSELL
Signature Date
 20. ISI Engineer R.P. Indap 9/12/01 Print Name R.P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 9-12-01 Print Name ROBERT G. HOGSTROM
Signature Date

RMB Burtzell 10/02/2001

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

As Required by the Provisions of the ASME Code Section XI

Owner Arizona Public Service Company, et. al.

Date 08/07/98

P. O. Box 53999, Phoenix, Arizona 85072-2034

Sheet 1 of 2

Address

2. Plant Palo Verde Nuclear Generating Station

Unit 3

Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

W.O.#684229

Address

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

3. Work Performed by APS

Type Code Symbol Stamp None

Name

Authorization No. N/A

Same as (Item#2)

Expiration Date N/A

Address

4. Identification of System SI

5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI241H007	2001	Replacement	No
Rear Bracket	Lisega	N/A	N/A	3SI241H007	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3Si241H007	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W. EDC # 94-00467

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

Exempt ☒ 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.#684229

3SI241H007

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

John [Signature] ISI ENGINEER

Date 10-13-01

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-12-01 to 10-13-01, and state that to the best of my knowledge and 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]

Inspector's Signature

10-13-01

Commissions

NS 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date

OCTOBER

13

19 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI241H008 2. Code Class ASME III, NF / CLASS 2
 3. Item Description SNUBBER
 4. N-5 Package Number 3SI07-3 5. W.O. Number 684229 / #216570
 6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
 7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
 8. Work Description Replacement of Snubber with Rigid Strut.

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.
Design Mod I.A.W. EDC# 94-00467, SNUBBER Being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition Subsection NF, Class-2 / 74 Edition '75 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition (Same as Item #12)
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☒ YES ☐ NO
Initial 08-10-2001 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Initial 08-10-2001 If required, include a step in the W.O. for ISI & ANII Inspection.

- Initial 08-10-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 08-10-2001 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3SI241H008	STRUT # 395059	N/A	N/A	PL0182621
	Rear Bracket #355959	N/A	N/A	PL0523452
	Pipe Clamp #364661	N/A	N/A	PL0182621

19. Planner Robert M. Burtzell 08-10-2001 Print Name Robert M. Burtzell
 Signature Date
 20. ISI Engineer R.P. Indap 8/14/01 Print Name R.P. Indap
 Signature Date
 21. ANII R.G. Hogstrom 8-14-01 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

Owner Arizona Public Service Company, et. al.

Name

Date 08/07/98

P. O. Box 53999, Phoenix, Arizona 85072-2034

Address

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Name

Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

Address

W.O.#684229

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

3. Work Performed by APS

Name

Type Code Symbol Stamp None

Same as (Item# 2)

Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III,NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI241H008	2001	Replacement	No
Rear Bracket	Lisega	N/A	N/A	3SI241H008	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3SI241H008	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W. EDC# 94-00467

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

Exempt ☒ 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)

J. Remarks W.O.#684229

3SI241H008

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]

SR. ISI ENGINEER

Owner or Owner's Designee, Title

Date 10/14/01

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 8-14-01 to 10-14-01, and state that to the best of my knowledge and 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]

Inspector's Signature

Commissions

AS 4085 IN 11 AZ 204

National Board, State, Province, and Endorsements

Date

October 11

19 2001

ASME SECTION XI - REPAIR/REPLACEMENT

- Component ID 3SI241H009 2. Code Class ASME III,NF, / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 3SI07-3 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of Snubber with Rigid Strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC -94-00467 snubber being replaced with rigid strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, CLASS 2 / 74 Edition, '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI241H009	Strut #396109	N/A	N/A	PL0182621
<u>2ea.</u> <u>RMA 03/11/01</u>	R-Bracket #356959	N/A	N/A	ROS#90413712

19. Planner James D. Cruise Jr. 9-7-98 Print Name J. Cruise
Signature Date
20. ISI Engineer R. P. Indap 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII R. G. Hogstrom 9-9-98 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 08/06/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034
Address
2. Plant Palo Verde Nuclear Generating Station Sheet 1 of 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Unit 3
Address
W.O.#684229
Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name
Same as (Item #2) Authorization No. N/A
Address Expiration Date N/A
4. Identification of System SI

5. (a) Applicable Construction Code ASME III,NF/CL 2 1974 Edition, 75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid strut	Lisega	N/A	N/A	3SI241H009	2001	Replacement	No
Rear Bracket	Lisega	N/A	N/A	3SI241H009	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W.EDC-94-00467

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
Exempt ☒ 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. #684229

3SI241H009

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


Owner or Owner's Designee, Title

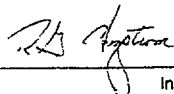
ISI ENGINEER

Date 10-13-01

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 9-4-98 to 10-14-01, and state that to the best of my knowledge and 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.



Inspector's Signature

Commissions

NB 9685 "N" 7" Az. 264

National Board, State, Province, and Endorsements

Date

OCTOBER

14

10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

- Component ID 3SI241H011 2. Code Class ASME III,NF / CLASS 2
3. Item Description Snubber
4. N-5 Package Number 3SI07-3 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of Snubber with Rigid Strut.
9. ☒ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W.EDC # 94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as(Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI241H011	Strut #395109	N/A	N/A	ROS#90397390
	Rear Bracket #355959	N/A	N/A	PL0039445
	Pipe Clamp #364661	N/A	N/A	ROS#90397390
				90397627

19. Planner James D. Cruse 9-7-98 Print Name J. Cruse
Signature Date
- ISI Engineer R.P. Indap 9-9-98 Print Name R.P. INDAP
Signature Date
21. ANII R.G. Hogstrom 9-9-98 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

- Owner Arizona Public Service Company, et. al. Date 08/07/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item#2) Expiration Date N/A
Address
4. Identification of System SI
5. (a) Applicable Construction Code ASME III, NF/ CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI241H011	2001	Replacement	No
Rear Bracket	Lisega	N/A	N/A	3SI241H011	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3SI241H011	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W. EDC # 94-00467
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
Exempt ☒ 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.#684229

3SI241H011

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] ISI ENGINEER

Owner or Owner's Designee, Title

Date 10-13-01

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 4-9-98 to 10-13-01, and state that to the best of my knowledge and 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]
(Inspector's Signature)

Commissions NB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER 13 10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI241H014 2. Code Class ASME III, NF / CLASS 2
 3. Item Description SNUBBER
 4. N-5 Package Number 3SI07-3 5. W.O. Number 684229 / #216570
 6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
 7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
 8. Work Description Replacement of Snubber with Rigid Strut.

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.
Design Mod I.A.W. EDC# 94-00467, SNUBBER Being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition Subsection NF, Class-2 / 74 Edition '75 Winter Addenda

13. Repair/Replacement Activity Construction Code/Edition (Same as Item #12)

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

15. Preservice Inspection Required. ☒ YES ☐ NO

Rmb 08/10/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO

N/A 08/10/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

Rmb 08/10/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

Rmb 08/10/01 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.
3SI241H014	STRUT # 396129RR1	N/A	N/A	PL0187621

19. Planner Robert M. Burtzell 08-10-01 Print Name Robert M. Burtzell
Signature Date

20. ISI Engineer R.P. Indap 8/14/01 Print Name R.P. Indap
Signature Date

21. ANII R.G. Hogstrom 8-14-01 Print Name R.G. Hogstrom
Signature Date

Rmb 10/10/2001

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

As Required by the Provisions of the ASME Code Section XI

- Owner Arizona Public Service Company, et. al. Date 08/05/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item #2) Expiration Date N/A
Address
 4. Identification of System SI

5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI241H014	2001	Replacement	No

7. Description of Work Replacement of snubber with Rigid strut I.A.W. EDC #94-00467

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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. #684229
3SI241H014

CERTIFICATE OF COMPLIANCE

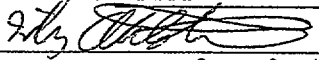
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed



ISI ENGINEER

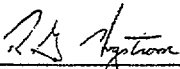
Date 10-13-01

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-14-01 to 10-13-01, and state that to the best of my knowledge and 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.



Inspector's Signature

Commissions

NS 9685 "N" "I" Az-264

National Board, State, Province, and Endorsements

Date OCTOBER 13 10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI307H006 2. Code Class ASME III,NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 3SI01-2 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of snubber with rigid strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC#94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition, '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI307H006	Strut#396079	N/A	N/A	PL0011430
	R-Bracket#356959	N/A	N/A	PL0182621
	Pipe Clamp#376161	N/A	N/A	PL182621

19. Planner J. Cruse 9-7-98 Print Name J. Cruse
Signature Date
20. ISI Engineer R. P. Indap 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII R. G. Hogstrom 9-9-98 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 08/05/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name
Same as (Item#2) Authorization No. N/A
Address Expiration Date N/A
4. Identification of System SI
5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI307H006	2001	Replacement	No
R-Bracket	Lisega	N/A	N/A	3SI307H006	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3SI307H006	2001	Replacement	No

7. Description of Work Replacement of snubber with Rigid strut I.A.W. EDC#94-00467
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
Exempt ☒ 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.#684229

3SI307H006

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 WILEY AHLSTROM 151 ENGINEER Date 10-13-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-9-98 to 10-14-01, and state that to the best of my knowledge and 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.

Wiley Ahlstrom
Inspector's Signature
Date OCTOBER 14 10 2001

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

ASME SECTION XI - REPAIR/REPLACEMENT

- Component ID 3SI307H007 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 3SI01-2 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of snubber with Rigid Strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC# 94-00467. Snubber Being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition, '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI307H007	Strut #397059S	N/A	N/A	ROS#90413690
	R-Bracket #357959	N/A	N/A	ROS#90405278
	Pipe Clamp #376162	N/A	N/A	PL0182621

19. Planner James J. Cruse 9-7-98 Print Name J. Cruse
Signature Date
20. ISI Engineer R. P. Indap 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII R. G. Houston 9-9-98 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

- Owner Arizona Public Service Company, et. al. Date 08/05/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item#2) Expiration Date N/A
Address
 4. Identification of System SI
 5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI307H007	2001	Replacement	No
R-Bracket	Lisega	N/A	N/A	3SI307H007	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3SI307H007	2001	Replacement	No

7. Description of Work Replacement of snubber with Rigid Strut I.A.W. EDC#94-00467
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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)

d. Remarks W.O.#684229

3SI307H007

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 

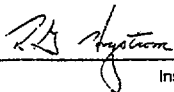
Date 10-13-01

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-9-98 to 10-13-01, and state that to the best of my knowledge and 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.



Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER 13 10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI008H004 2. Code Class ASME III,NF / CLASS 2
3. Item Description Snubber
4. N-5 Package Number 3SI01-2 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of Snubber with Rigid Strut.
9. ☒ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W.EDC#94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition. '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition,1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI008H004	Strut #395049	N/A	N/A	ROS#90397383
	Rear Bracket #355959	N/A	N/A	ROS#90413684
	Pipe Clamp #362761	N/A	N/A	ROS#90413684

19. Planner James Q. Cruse 9-7-98 Print Name J. Cruse
Signature Date
- ISI Engineer R. P. Indap 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII R. G. Hogstrom 9-9-98 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 08/06/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item#2) Expiration Date N/A
Address
4. Identification of System SI
5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI008H004	2001	Replacement	No
Rear Bracket	Lisega	N/A	N/A	3SI008H004	2001	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	3SI008H004	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W. EDC#94-00467
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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.#684229

3SI008H004

REAR END BRACKET WELDING WAS DONE ON 05/30/97 UNDER ASME
SECTION XI '80 W '81.

CERTIFICATE OF COMPLIANCE

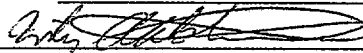
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed



ISI ENGINEER

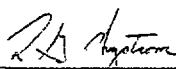
Date 10-13-01

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-2-98 to 10-13-01, and state that to the best of my knowledge and 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.



Inspector's Signature

Commissions

NB 9685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date OCTOBER 13 19 2001

ASME SECTION XI - REPAIR/REPLACEMENT

- Component ID 3SI241H005 2. Code Class ASME III,NF / CLASS 2
3. Item Description Snubber
4. N-5 Package Number 3SI07-3 5. W.O. Number #684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of Snubber with Rigid Strut.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC# 94-00467. Snubber being replaced with Rigid Strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, Class 2 / 74 Edition '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI241H005	Strut #3952RR1	N/A	N/A	ROS#90396097
	395129RR1			PL0525283

19. Planner James D. Cruise 9-7-98 Print Name J. Cruise
Signature Date
20. ISI Engineer R. P. Indap 9-9-98 Print Name R. P. INDAP
Signature Date
21. ANII R. G. Hogstrom 9-9-98 Print Name R. G. HOGSTROM
Signature Date

RMB 10/02/2001

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

As Required by the Provisions of the ASME Code Section XI

- Owner Arizona Public Service Company, et. al. Date 08/07/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item# 2) Expiration Date N/A
Address
4. Identification of System SI
5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI241H005	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W. EDC# 94-00467
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
Exempt ☒ 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.#684229

3SI241H005

REAR END BRACKET WELDING WAS DONE ON 01/31/97 UNDER ASME

SECTION XI '80 W '81.

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

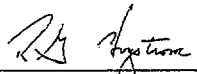
Signed  151 ENGINEER
Owner or Owner's Designee, Title

Date 10-13-01

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 9-9-98 to 10-14-01, and state that to the best of my knowledge and 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.


Inspector's Signature

Commissions NB 9685 "N" "I" A2.264
National Board, State, Province, and Endorsements

Date OCTOBER 14 19 2001

ASME SECTION XI - REPAIR/REPLACEMENT

- Component ID 3SI241H012 2. Code Class ASME III, NF/CLASS 2
3. Item Description Snubber
4. N-5 Package Number 3SI07-3 5. W.O. Number 684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of snubber W/rigid strut
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design mod IAW EDC #94-00467 Snubber replaced with a rigid strut.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsection NF, Class 2/74 Edition, '75 Winter
13. Repair/Replacement Activity Construction Code/Edition Subsection NF, Class 2/74 Edition, '75 Winter
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required.

☒ YES ☐ NO

PS 09/21/98 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO

PS 09/21/98 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

PS 09/21/98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

PS 09/21/98 18. Include a step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI241H012	Strut #3962RR1	N/A	N/A	PL0007422

1. Planner [Signature] 09/21/98 Print Name L.D. Pagan
Signature Date
20. ISI Engineer [Signature] 9/23/98 Print Name R. P. INDAP
Signature Date
21. ANII [Signature] 9-23-98 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 08/06/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item#2) Expiration Date N/A
Address
4. Identification of System SI
5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI241H012	2001	Replacement	No

7. Description of Work Replacement of Snubber with Rigid Strut I.A.W.EDC # 94-00467
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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.#684229
3SI241H012

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] ISI ENGINEER

Date 10-13-01

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-23-98 to 10-13-01, and state that to the best of my knowledge and 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]

Inspector's Signature

Commissions

NB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER

13

10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI307H002 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 3SI01-2 5. W.O. Number LEGACY #00684229 / 216570
6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description REPLACEMENT OF SNUBBER WITH RIGID STRUT.

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.
DESIGN MOD I.A.W. EDC# 94-00467. SNUBBERS BEING REPLACED WITH RIGID STRUTS.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsection, NF, Class 2 /74 Edition, '75 Winter Addend
13. Repair/Replacement Activity Construction Code/Edition SAME AS (ITEM #12)
14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO

RMB 09-12-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO

RMB 09-12-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

RMB 09-12-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

RMB 09-12-2001 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.
3SI307H002(E)	STRUT #396159	N/A	N/A	PLO182621
3SI307H002(W)	STRUT #396159	N/A	N/A	PLO182621
(NE)	R-BRACKET #356959	N/A	N/A	PLO182621
(NW)	R-BRACKET #356959	N/A	N/A	PLO182621
(SE)	R-BRACKET #356959	N/A	N/A	PLO182621
(SW)	R-BRACKET #356959	N/A	N/A	PLO182621

19. Planner Robert M. Burtzell 09-12-2001 Print Name ROBERT M. BURTSSELL
Signature Date

20. ISI Engineer R.P. Indap 9/12/01 Print Name R.P. INDAP
Signature Date

21. ANII Robert G. Hogstrom 9-12-01 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 08/06/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as (Item#2) Expiration Date N/A
Address
4. Identification of System SI

5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut (2 ea.)	Lisega	N/A	N/A	3SI307H002	2001	Replacement	No
Rear Bracket (4-ea.)	Lisega	N/A	N/A	3SI307H002	2001	Replacement	No

7. Description of Work Replacement of snubber with Rigid Strut I.A.W. EDC#94-00467

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ 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.#684229

3SI307H002

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

151 ENGINEER
Owner or Owner's Designee, Title

Date 10-13-01

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 4-12-01 to 10-13-01, and state that to the best of my knowledge and 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]

Inspector's Signature

Commissions

NB 9685 "S" "I" Az 264

National Board, State, Province, and Endorsements

Date

OCTOBER 13

19 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI307H005 2. Code Class ASME III, NF / CLASS 2
3. Item Description Snubber
4. N-5 Package Number 3SI01-2 5. W.O. Number W.O.#684229
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of snubber with Rigid Strut.

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

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Design Mod. I.A.W. EDC#94-00467, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Subsection NF, CLASS 2 / 74 Edition.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Same as (Item#12)
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

- JDC 9-7-98 15. Include step in the W.O. to perform Preservice Inspection
Initial Date
- JDC 9-7-98 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
Initial Date
- JDC 9-7-98 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JDC 9-7-98 18. Include step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
3SI307H005	Strut#397109	N/A	N/A	PL0182621
	R-Bracket#357959	N/A	N/A	PL0007423
	Pipe Clamp#363264	N/A	N/A	PL0182621

19. Planner James D. Cruse 9-7-98 Print Name J. Cruse
Signature Date
20. ISI Engineer R.P. Indap 9-9-98 Print Name R.P. INDAP
Signature Date
21. ANII R.G. Houstrom 9-9-98 Print Name R.G. HOUSTROM
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 08/06/98
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#684229
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name
Same as (Item#2) Authorization No. N/A
Address Expiration Date N/A
4. Identification of System SI

5. (a) Applicable Construction Code ASME III, NF / CL 2 1974 Edition, '75W Addenda, N/A 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	3SI307H005	2001	Replacement	No
R-Bracket	Lisega	N/A	N/A	3SI307H005	2001	Replacement	No
Pipe-Clamp	Lisega	N/A	N/A	3SI307H005	2001	Replacement	No

7. Description of Work Replacement of snubber with Rigid Strut I.A.W.EDC#94-00467

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
Exempt ☒ 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.#684227

3SI307H005

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

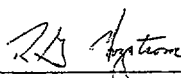
Signed  ISI ENGINEER
Owner or Owner's Designee, Title

Date 10-13-01

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 9-2-98 to 10-14-01, and state that to the best of my knowledge and 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.


Inspector's Signature

Commissions NB 9685 "N" 1" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 14 10 2001