

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 1971 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 | 3MRCBE01A | 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

[Signature]

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 10-24-01, 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.

[Signature]

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 R. P. Indap 8-24-01 Print Name RAMAKANT P. INDAP
Signature Date
 21. ANII R. 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
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 | 3MRCCE01A | 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 _____
Signed D. J. H. SR Consulting ENGR Date 10-22-01
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 8-24-01 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.

D. J. H. Commissions NB 9685 "N" "I" Az 264
Inspector's Signature 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

| | | | | |
|------------------------|-----------|------|----------|--------|
| 3MRCEE01A R129/C140 | 0307-1601 | 9898 | J-9162-2 | 521386 |
| 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
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 replacement items.
Initial Date

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

19. Planner Michael B. Newell 8-23-01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. Indap 8-24-01 Print Name RAMAKANT P. INDAP
Signature Date
 21. ANII R. 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
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 | 65273-2 | 22861 | 3MRCEB01B | 1981 | Repaired | Yes |
| Tube Plugs | Westinghouse | * | N/A | * | 2001 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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
 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 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
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 9685 "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.

MBN 08/23/01 Initial Date
 YES NO

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

MBN 08/23/01 Initial Date
 YES NO

MBN 08/23/01 Initial Date
 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 Signature Date Print Name MICHAEL B. NEWELL
 20. ISI Engineer R. P. Indap 8-24-01 Signature Date Print Name RAMAKANT P. INDAP
 21. ANII R. G. Hogstrom 8-24-01 Signature Date Print Name ROBERT 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 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
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 | 65273-2 | 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" A2 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, CI 1, 1989 Edition
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, CI 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-Y2243-3B 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 1974 Edition, S'75 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of 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. BROWNING

[Signature]

ISI ENGINEER

Owner or Owner's Designee, Title

Date _____

11/2/01

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 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.

[Signature]

Inspector's Signature

Commissions _____

NS 9685 "N" "I" Az. 264

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
MSD 10/07/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required YES NO
MSD 10/07/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MSD 10/07/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MSD 10/07/01 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. |
|---------------------------|----------|------------|----------|--------------|
| 2" Butt welded gate valve | 45002782 | 901-6-0137 | | 00583355-001 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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

1. Owner Arizona Public Service Company, et. al. Date 10/07/01
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 2429127
Address Work Order Number

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

4. Identification of System 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

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 1974 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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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 | D810607 | 586952-0002 |
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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 R.L.B. 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. |
|-----------|----------|------------|----------|------------|
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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/ PIER TELECON
21. ANII [Signature] 10-12-01 Print Name ROBERT HOGSTROM PIER 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
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 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 2685 "S" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 13, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MEWBEO1 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
[Signature] 10/17/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
[Signature] 10/17/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

[Signature] 10/17/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
[Signature] 10/17/01 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. |
|-----------|----------|------------|----------|------------|
| 3MEWBEO1 | N/A | N/A | N/A | N/A |
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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
5801 S. Wintersburg Rd. Tonopah, Arizona 85354-7529 Authorization No. N/A
Address Expiration Date N/A

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 |
| | | | | | | | |
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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.

Pat L. Frystone 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 3JRCBHV0108 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) RPI 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 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
RCO 9/18/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

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

RCO 9/18/00 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. |
|-------------|----------|------------|----------|---------------|
| 3JRCBHV0108 | 98F-001 | 5 | N/A | 00456183-0010 |
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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 R.G. Huestrom 9-21-00 Print Name R.G. Huestrom
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 00-00219434
Address Work Order Number

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

4. Identification of System 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 |
| | | | | | | | |
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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 Morrow ISI Sr. Engineer
Owner or Owner's Designee, Title

Date 9-30-00

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.

Pat A. Ferguson
Inspector's Signature

Commissions

NB 9685 "I" "N" Az. 26A
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 ^{# 10-28-01 by 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 BOUNDRY.
(SEE SWMS #00-00219435) RPI 9/21/00

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

15. Preservice Inspection Required. YES NO
LSO 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
LSO 9/18/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

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

LSO 9/18/00 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. |
|-------------|----------|------------|----------|-------------|
| 3JRCBHV0109 | 98F-001 | 7 | N/A | 570709-0001 |
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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 Rex Holstrom 9-21-00 Print Name Rex Holstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 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 |
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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]
Inspector's Signature

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

Date OCTOBER 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

- 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 AIR
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 |
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19. Planner James D. Cruse 9-8-98 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
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 | 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 |
| | | | | | | | |
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| | | | | | | | |

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)

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 9-9-00 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 NB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER 14 10 2001

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 | 3CH142H003 | 2001 | Replacement | No |
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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

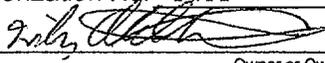
CERTIFICATE OF COMPLIANCE

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  ISI ENGINEER

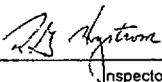
Date 10-13-01

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 10 2001

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 |
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STRUT #
2-21. R-BRKT'S
QCIT
PL0524602
PO# 60278592

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 08/06/98
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 |
| | | | | | | | |
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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

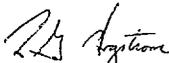
Date 10-13-01

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 9-2-01 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.



Inspector's Signature

Commissions

NS 9685 "S" "I" Az 264

National Board, State, Province, and Endorsements

Date

OCTOBER

14

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 08/06/98
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 | 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 |
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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- 10-14-01

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

Date OCTOBER 14 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 08/07/98
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 | 3SI1002H002 | 2001 | Replacement | No |
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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

Willy Hill 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.

Willy Hill

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 | <u>90397421</u> |
| | Rear bracket#355959 | N/A | N/A | 90413683 |
| | Pipe clamp #362261 | N/A | N/A | <u>PLO523452</u> |
| | | | | <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

10-82-01 RMB

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 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 |
| | | | | | | | |
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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

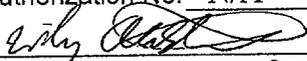
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed



ISI ENGINEER

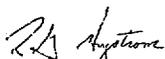
Date 10-13-01

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 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 08/14/01 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 replacement items.
Initial Date

| 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 | <u>PL0523452*</u> |
| | 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

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 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 |
| | | | | | | | |
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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]
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 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 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 08/06/98
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 #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 / 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 |
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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)

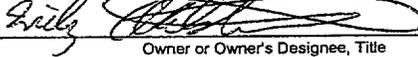
9. Remarks W.O.#684229
3SI067H001

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.

 Commissions NB 9685 "N" "I" Az 264
Inspector's Signature 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 09-22-2001 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 | 956048218 |
| | R-BRACKET #355959 | N/A | N/A | PL0039445 |
| | PIPE CLAMP #364661 | N/A | N/A | PL0182621 |
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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
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 | 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 |
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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)

3. 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

[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

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 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
AMB 08-10-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

AMB 08-10-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

AMB 08-10-2001 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. |
|------------|----------------------|------------|----------|------------------|
| 3SI241H008 | STRUT # 395059 | N/A | N/A | PL0182621 |
| | Rear Bracket #355959 | N/A | N/A | PL0523452 |
| | Pipe Clamp #364661 | N/A | N/A | PL0182621 |
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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. 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 | 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 |
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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 2085 10/14/01 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 |
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19. Planner James 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

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 | 3SI241H009 | 2001 | Replacement | No |
| Rear Bracket | Lisega | N/A | N/A | 3SI241H009 | 2001 | Replacement | No |
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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

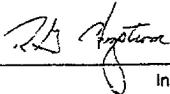
 ISI ENGINEER
Owner or Owner's Designee, Title

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 9-4-98 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" A2-264

National Board, State, Province, and Endorsements

Date

OCTOBER

14

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 08/07/98
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 |
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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)

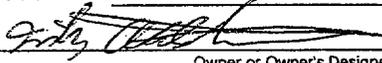
9. Remarks W.O.#684229
3SI241H011

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

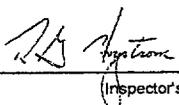
Certificate of Authorization No. N/A Expiration Date N/A

Signed  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 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.

 Commissions NB 9685 "N" "I" Az-264
Inspector's Signature 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 |
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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

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 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 |
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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 [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] Commissions NS 9685 "N" "I" Az-264
Inspector's Signature National Board, State, Province, and Endorsements
Date OCTOBER 13 19 2001 10-13-01

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 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 | 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 |
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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 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 Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements
Date OCTOBER 14 2001

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 |
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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. 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

- 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 |
| | | | | | | | |
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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

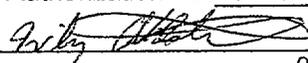
CERTIFICATE OF COMPLIANCE

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 

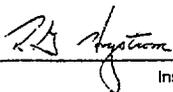
Date 10-13-01

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" "1" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER 13 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 |
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19. Planner James R. 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. Hostrom 9-9-98 Print Name R.G. HOOSTROM
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 |
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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)

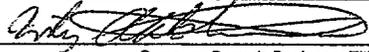
9. Remarks W.O.#684229
3SI008H004
REAR END BRACKET WELDING WAS DONE ON 05/30/97 UNDER ASME
SECTION XI '80 W '81.

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

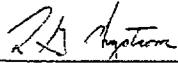
Certificate of Authorization No. N/A Expiration Date N/A

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.

 Commissions NB 9685 "N" "I" Az 264
Inspector's Signature National Board, State, Province, and Endorsements
Date OCTOBER 13 19 2001

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 08/07/98
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 |
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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 *[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

Commissions NB 9685 "N" "I" A2.264

National Board, State, Province, and Endorsements

Date OCTOBER 14 19 2001

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 |
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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

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 9-23-98 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" A2-264

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. BURSELL
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 |
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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 *Ruby [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 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.

Ruby [Signature] Commissions NS 9685 "S" "I" Az 264
Inspector's Signature National Board, State, Province, and Endorsements
Date OCTOBER 13 10 2001

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 | 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" 7" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER 14 10 2001