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10 CFR 50.55a

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U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-37
Washington, DC 20555-0001

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1,2 and 3 Docket Nos. STN 50-528, 50-529, and 50-530
Unit 3 Second 10-Year Interval – Ninth Refueling Outage Inservice
Inspection Summary**

Pursuant to 10 CFR 50.55a and IWA-6240 of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, 1992 Edition, 1992 Addenda, Arizona Public Service Company (APS) hereby submits the PVNGS Unit 3 Inservice Inspection Report for the ninth refueling outage, provided in enclosure 1. This is the second refueling for Interval 2, Period 1, which was conducted from September 28, 2001 through November 05, 2001.

This letter does not make any commitments to the NRC. Please contact Thomas N. Weber at (623) 393-5764 if you have any questions or require additional information.

Sincerely,

SAB/TNW/RJR/kg

Enclosures

cc: E. W. Merschoff
L. R. Wharton
J. H. Moorman

A047

ENCLOSURE 1

SECOND 10-YEAR ISI INTERVAL

SUMMARY REPORT

NINTH REFUELING OUTAGE

PALO VERDE NUCLEAR GENERATING STATION

UNIT 3

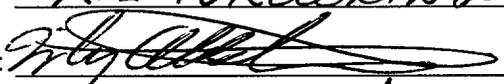
PALO VERDE NUCLEAR GENERATING STATION

UNIT 3

INSERVICE INSPECTION REPORT

NINTH REFUELING OUTAGE

**ARIZONA PUBLIC SERVICE
5801 S. WINTERSBURG ROAD
TONOPAH, AZ 85354**

PREPARED BY: R.L. BROWNING DATE: 12/11/01
REVIEWED BY:  DATE: 12-21-01
APPROVED BY: Michael Melton DATE: 1/02/02

COMMERCIAL SERVICE DATE: 01/28/86
REPORT DATE: 12/11/01

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UNIT 3 INSERVICE INSPECTION REPORT

1.0 Introduction

- 1.1 This report is a summary of the ISI examinations performed during the ninth refueling outage at the Palo Verde Nuclear Generating Station (PVNGS) Unit 3. This report also includes all applicable examinations conducted since the last refueling outage. This was the second refueling for Interval 2, Period 1 which was conducted from September 28, 2001 through November 05, 2001. Palo Verde Unit 3 began commercial operation on January 28, 1986.
- 1.2 This report identifies the components examined, the examination methods used, the examination report numbers, and summarizes the examination results for each of the following categories:
 1. ASME Section XI, Class 1 and 2 pressure retaining components and their supports.
 2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8.
- 1.3 This report is a summary of the Period 1, 2nd Interval ISI exams performed during the ninth refueling outage. All of the examination report numbers listed in Appendix A for the ninth refueling and examinations performed since the last Summary Report are numbered in bold print.
- 1.4 This report also contains ASME Section XI Subsection IWL conditions as required by 10CFR50.55a(b)(2)(viii)(D).

2.0 Examination Summary

- 2.1 The evaluation of the results from the ISI examinations indicated the integrity of the systems have been maintained. All discrepancies were corrected or determined "use-as-is" in accordance with PVNGS work control practices and ASME Section XI. Any abnormal conditions detected are listed in Section 7 (Repairs and Replacements).
- 2.2 Various non-rejectable indications were detected during the performance of examinations. These indications were recorded and are maintained on file. No rejectable conditions were detected.
- 2.3 Leakage was detected at a RCS hot leg nozzle. The nozzle was repaired using a Mechanical Nozzle Seal Assembly (MNSA) pursuant to ISI program relief request number 18.
- 2.4 Several through wall tendon grease (visconorust sheathing filler) leaks were identified during the baseline IWL inservice inspection of the concrete containment structure in Unit 3. The conditions of containment degradation were documented and evaluated as acceptable.

3.0 Examination Techniques

- 3.1 The three types of examinations utilized to perform the Inservice Examinations, along with the actual nondestructive examination techniques, are identified in the legend below:

| | | |
|------------------|-------|-----------------------|
| VT - Visual | VT-1 | General Condition |
| | VT-2 | Leakage |
| | VT-3 | Structural Condition/ |
| | VT-3C | Operability |
| S - Surface | PT | Liquid Penetrant |
| | MT | Magnetic Particle |
| VOL - Volumetric | UT | Ultrasonic |
| | RT | Radiographic |

- 3.2 All of the nondestructive examinations were performed using specific techniques and procedures that are indicated in ASME Section XI, or alternative examinations that are demonstrated to be equivalent or superior to those identified.

4.0 Accessibility

- 4.1 All items were examined to the extent practical. Any code limitations encountered during the examination are documented in Appendix B.

5.0 Personnel

- 5.1 All nondestructive examinations were performed by Arizona Public Service Co. (APS), Lambert, MacGill, Thomas, Inc. (LMT), or MQS. All personnel were certified in accordance with programs written to comply with the applicable requirements of ASME Section XI. Copies of all certifications are maintained on file. The Hartford Steam Boiler Inspection and Insurance Company provided the Authorized Nuclear Inservice Inspector (ANII).

6.0 Equipment and Materials

- 6.1 The equipment and materials utilized were certified to the requirements of ASME Section XI. Copies of all certifications are maintained on file.

7.0 Repairs and Replacements

- 7.1 No repairs or replacements were performed as a result of ISI examinations during U3R9. The applicable records and reports for the specific maintenance repair or replacements performed after the last summary report are maintained on file at Palo Verde. The applicable NIS-2 forms are an attachment to Appendix E and are submitted for review with this report.

APPENDIX A

**INSERVICE INSPECTION
SUMMARY REPORT**

APPENDIX A

Definition of Terms

The column headings for the tables on the following pages are defined below:

| | |
|-----------------|--|
| ASME Item No - | The ASME Section XI Category/Item Numbers are listed in the Code, Subsections IWB, IWC, IWE and IWL. The item number prefixes are defined below: |
| | AHE - Augmented high energy systems piping |
| | B - ASME Class 1 systems |
| | BFLYWH - Reactor coolant pump flywheels |
| | BIWF - ASME Class 1 supports |
| | C - ASME Class 2 systems |
| | CIWF - ASME Class 2 supports |
| | E - Containment Surfaces/Bolting |
| | L- Contianment Exterior Concrete Surfaces |
| Zone No - | Area designation per PVNGS design |
| Comp/Sys - | Component or system description |
| Insp Per - | Inspection period |
| Amt Reqd - | Number of items <i>required</i> to be completed in the period |
| Amt Comp - | Number of <i>required</i> items completed |
| Item ID - | Item identification per ISI program/zone drawings |
| Reports (VOL) - | Volumetric exam report number |
| (SURF) - | Surface exam report number |
| (VIS) - | Visual exam report number |
| Remarks - | Re-exam or replacement remarks indicate acceptable examination results |

Definition of terms continued

| | |
|-------------------|-------------------------------------|
| Acc - | Accessible |
| ADV - | Atmospheric Dump Valve |
| Aux - | Auxiliary |
| Atmos - | Atmospheric |
| CEDM - | Control Element Drive Mechanism |
| Circ - | Circumferential |
| Cont - | Containment |
| CS - | Containment Spray |
| CSP - | Containment Spray Pump |
| FW - | Feedwater |
| HPSI - | High Pressure Safety Injection |
| HTRS - | Heaters |
| ICI - | In Core Instrumentation |
| IEB - | Inspection and Enforcement Bulletin |
| Letdown HT Exch - | Letdown Heat Exchanger |
| LPSI - | Low Pressure Safety Injection |
| MS - | Main Steam |
| MT - | Magnetic Particle Test |
| Press Bound - | Pressure Boundary |
| PSE - | Preservice Examination |
| PSV - | Pressurizer Safety Valve |
| PZR - | Pressurizer |
| RCP - | Reactor Coolant Pump |
| RCS - | Reactor Coolant System |
| Regen HTEXCH- | Regenerative Heat Exchanger |
| SD - | Shutdown |
| SG - | Steam Generator |
| SI - | Safety Injection |
| Snub - | Snubber Reduction Program |
| Surf - | Surface |
| UT - | Ultrasonic Testing |
| Vis - | Visual |
| Vol - | Volumetric |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks | | | | |
|--------------------|---------------|-------------|------------|-------------------|-------------------|---------|-----------------|--------|---------|---------|---------|--|--|
| AHE5.51 & 5.52 | 47 MS SG1 | One | 13 | 13 | 47-1 | 00-3443 | 00-3388 | | | | | | |
| | | | | | 47-2 | 00-3437 | 00-3388 | | | | | | |
| | | | | | 47-4 | 00-3454 | 00-3389 | | | | | | |
| | | | | | 47-8 | 00-3453 | 00-3389 | | | | | | |
| | | | | | 47-12 | 00-3452 | 00-3389 | | | | | | |
| | | | | | 47-16 | 00-3451 | 00-3389 | | | | | | |
| | | | | | 47-20 | 00-3450 | 00-3389 | | | | | | |
| | | | | | 47-24 | 00-3445 | 00-3388 | | | | | | |
| | | | | | 47-25 | 00-3446 | 00-3388 | | | | | | |
| | | | | | 47-28 | 00-3428 | 00-3387 | | | | | | |
| | | | | | 47-29 | 00-3427 | 00-3387 | | | | | | |
| | | | | | 47-30 | 00-3447 | 00-3388 | | | | | | |
| | | | | | 51 Atmos Dump SG1 | One | 13 | 13 | 51-1 | 00-3425 | 00-3205 | | |
| | | | | | | | | | 51-2 | 00-3433 | 00-3205 | | |
| 51-3 | 00-3432 | 00-3205 | | | | | | | | | | | |
| 51-4 | 00-3435 | 00-3205 | | | | | | | | | | | |
| 51-5 | 00-3431 | 00-3205 | | | | | | | | | | | |
| 51-6 | 00-3430 | 00-3205 | | | | | | | | | | | |
| 51-7 | 00-3429 | 00-3205 | | | | | | | | | | | |
| 51-8A | 00-3424 | 00-3386 | | | | | | | | | | | |
| 51-8B | 00-3403 | 00-3205 | | | | | | | | | | | |
| 51-9 | 00-3404 | 00-3205 | | | | | | | | | | | |
| 51-51 | 00-3405 | 00-3205 | | | | | | | | | | | |
| 51-53 | 00-3426 | 00-3205 | | | | | | | | | | | |
| 51-54 | 00-3434 | 00-3205 | | | | | | | | | | | |
| 53 Steam to Aux FW | One | 10 | 10 | 53-11 | | | | | 00-3134 | 00-3110 | | | |
| | | | | 53-12 | 00-3138 | 00-3110 | | | | | | | |
| | | | | 53-13 | 00-3137 | 00-3110 | | PSE | | | | | |
| | | | | 53-14 | 00-3132 | 00-3110 | | | | | | | |
| | | | | 53-15 | 00-3130 | 00-3110 | | | | | | | |
| | | | | 53-21 | 00-3131 | 00-3110 | | | | | | | |
| | | | | 53-22 | 00-3133 | 00-3110 | | | | | | | |
| | | | | 53-23 | 00-3129 | 00-3110 | | | | | | | |
| | | | | 53-24 | 00-3136 | 00-3110 | | PSE | | | | | |
| | | | | 53-25 | 00-3135 | 00-3110 | | | | | | | |
| | | | | 56 Feedwater SG 1 | One | 6 | 6 | 56-1 | 01-3411 | 01-3337 | | | |
| | | | | | | | | 56-4 | 01-3412 | 01-3337 | | | |
| | | | | | | | | 56-6 | 01-3413 | 01-3337 | | | |
| | | | | | | | | 56-7 | 01-3414 | 01-3337 | | | |
| 56-9 | 01-3415 | 01-3337 | | | | | | | | | | | |
| 56-11 | 01-3416 | 01-3337 | | | | | | | | | | | |
| 60 Downcomer SG1 | One | 9 | 9 | 60-7 | 00-3284 | 00-3267 | | | | | | | |
| | | | | 60-8 | 00-3285 | 00-3266 | | | | | | | |
| | | | | 60-9 | 00-3286 | 00-3268 | | | | | | | |
| | | | | 60-11 | 00-3287 | 00-3267 | | | | | | | |
| | | | | 60-12 | 00-3288 | 00-3267 | | | | | | | |
| | | | | 60-14 | 00-3289 | 00-3267 | | | | | | | |
| | | | | 60-15 | 00-3290 | 00-3267 | | | | | | | |
| | | | | 60-16 | 00-3291 | 00-3267 | | | | | | | |
| | | | | 60-17 | 00-3292 | 00-3267 | | | | | | | |
| 66 Blowdown SG1 | One | 9 | 9 | 66-1 | 00-3146 | 00-3093 | | | | | | | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|---------------------|---------------------|-------------|------------|-------------|--------------------|--|-----------------|--------|--------------------------------------|
| | | | | | 66-2 | 00-3145 | 00-3093 | | |
| | | | | | 66-3 | 00-3144 | 00-3093 | | |
| | | | | | 66-5 | 00-3143 | 00-3093 | | |
| | | | | | 66-6 | 00-3142 | 00-3093 | | |
| | | | | | 66-7 | 00-3140 | 00-3093 | | |
| | | | | | 66-8 | 00-3139 | 00-3093 | | |
| | | | | | 66-9 | 00-3141 | 00-3093 | | |
| | | | | | 66-25 | 00-3275 | 00-3206 | | |
| AHE 5.81 & 5.82 | 47 MS SG1 | One | 7 | 7 | 47-3 | 00-3442 | 00-3388 | | |
| | | | | | 47-7 | 00-3441 | 00-3388 | | |
| | | | | | 47-11 | 00-3440 | 00-3388 | | |
| | | | | | 47-15 | 00-3439 | 00-3388 | | |
| | | | | | 47-19 | 00-3436 | 00-3388 | | |
| | | | | | 47-23 | 00-3444 | 00-3388 | | |
| | | | | | 47-27 | 00-3438 | 00-3388 | | |
| B 1.22 | 02 Closure Head | One | 33% | 16% | 2-4 | 00-3417 00-3419 00-3421 00-3423 | 00-3082 | | Accessible Areas, RR#14 |
| B 1.30 | 01 Reactor Vessel | One | 50% | 50% | 1-14 | * | | | Examined 0-180 |
| B 1.40 | 02 Closure Head | One | 33% | 33% | 2-1 | 00-3416 00-3418 00-3420 00-3422 | 00-3082 | | Examined 0-120 |
| B 2.11 & | 5 Pressurizer | One | 66% | 66% | 5-2 | 00-3085 00-3087 00-3089 00-3091 | | | Examined 0-240 |
| B2.12 | | | | | 5-3 | 00-3086 00-3088 00-3090 00-3092 | | | 1' long seam for 5-2 |
| B2.31 & B2.32 | 3 Steam Generator 1 | One | 33% | 33% | 3-5 3-3 3-10 | 01-3078 01-3077 01-3081 | | | Credited 0 - 120 |
| B2.40 | | | 50% | 50% | 3-6 | 01-3079 | | | Examined 0 -180 |
| B 3.90 | 1 Reactor Vessel | One | 2 | 2 | 1-15 1-18 | * * | | | *Separate Report by Wesdyne. Exam |
| B 3.100 | 1 Reactor Vessel | One | 2 | 2 | 1-15 1-18 | * * | | | Completed in 3R7 |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|---------------------------------|-------------|------------|-------------|---------------|--------------------|--------------------|-------------------------------|---------|
| B3.110 | 5 Pressurizer | One | 2 | 2 | 5-9 5-11 | 01-3193 01-3273 | | | |
| B3.120 | | One | 2 | 2 | 5-9 5-11 | 01-3192 01-3274 | | | |
| B3.130 | 3 Steam Generator 1 | One | 1 | 1 | 3-8 | 01-3080 | | | |
| | 4 Steam Generator 2 | One | 1 | 1 | 4-9 | 01-3394 | | | |
| B 3.140 | 3 Steam Generator 1 | One | 1 | 1 | 3-8 | 01-3388 | | | |
| | 4 Steam Generator 2 | One | 1 | 1 | 4-9 | 01-3387 | | | |
| B 4.12 | 2 CEDM | One | 8 | 8 | 1-97 | | | 00-3543 | |
| B 4.13 | 1 RPV ICI | One | 5 | 5 | 1-61 | | | 00-3543 | |
| B 4.20 | 5 Pressurizer | One | 12 | 12 | 1-36 | | | 00-3543 | |
| B 5.40 | 20 PZR Surge & 31 PZR Safety | One | 2 | 2 | 5-34 5-29 | 01-3194 01-3275 | 01-3083 01-3272 | | |
| B 6.10 | 2 Nuts | One | 18 | 18 | 1 thru 18 | | 00-3200 | 00-3207 | |
| B 6.30 | 2 Studs | One | 18 | 18 | 1 thru 18 | 01-3338 | 00-3200 | | |
| B 6.50 | 2 Washers | One | 18 | 18 | 1 thru 18 | | | 00-3207 | |
| B 6.180 | 16 RCP 1A | One | 5 | 5 | 1 thru 5 | 01-3453 | | 00-3209 | |
| | 17 RCP 1B | One | 5 | 5 | 1 thru 5 | 01-3006 01-3454 | 01-3004 | 00-3210 01-3003 01-3236 | |
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | 01-3455 | | 00-3211 | |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | 01-3456 | | 00-3212 | |
| B 6.190 | 17 RCP 1B | One | 1 | 1 | Flange | | | 01-3003 01-3235 | |
| B 6.200 | 16 RCP 1A | One | 5 | 5 | 1 thru 5 | | | 00-3209 | |
| | 17 RCP 1B | One | 5 | 5 | 1 thru 5 | | | 00-3210 01-3003 01-3236 | |
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | | | 00-3211 | |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | | | 00-3212 | |
| B 7.20 | 05 Pressurizer | One | 20 | 20 | 20 studs/nuts | | | 00-3187 01-3314 01-3005 | |
| B 7.30 | 03 SG1 | One | 40 | 40 | 40 studs/nuts | | | 00-3188 01-3315 | |
| | 04 SG2 | One | 40 | 40 | 40 studs/nuts | | | 00-3189 | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|------------------|------------------|-------------|------------|-------------|---------------------|--|-------------------------------|---------------------------------------|--|
| | | | | | | | | 01-3316 | |
| B 7.50 | 31 PZR Safeties | One | 1 | 1 | PSV200 | | | 00-3186 01-3313 | |
| | | | | | PSV201 | | | 00-3186 01-3313 | |
| | | | | | PSV202 | | | 00-3186 01-3313 | |
| | | | | | PSV203 | | | 00-3186 01-3313 | |
| | 37 Charging | One | 1 | 1 | V435 | | | 00-3254 | |
| B 7.60 | 16 RCP 1A | One | 5 | 5 | 1 thru 5 | | | 00-3209 00-3113 | |
| | 17 RCP 1B | One | 5 | 5 | 1 thru 5 | | | 00-3210 00-3113 01-3002 | PSE (16 studs) |
| | | | | | | | | 01-3007 | |
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | | | 00-3211 00-3113 | |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | | | 00-3212 00-3113 | |
| B 7.70 | 21 SD Cooling | One | 1 | 1 | UV653 | | | 00-3006 | |
| | 22 SD Cooling | One | 1 | 1 | UV654 | | | 01-3457 | |
| | 23 SI 1A | One | 1 | 1 | V237 | | | 01-3017 | |
| | 24 SI 1B | One | 1 | 1 | V543 | | | 00-3066 | |
| | 25 SI 2A | One | 1 | 1 | V540 | | | 00-3080 | |
| | 26 SI 2B | One | 1 | 1 | V225 | | | 00-3185 | |
| | 28 PZR Spray | One | 2 | 2 | V241 | | | 00-3028 V242 00-3028 | |
| | 31 PZR Safeties | One | 1 | 1 | PSV200 | | | 00-3035 | |
| | 32 Drain Loop 1A | One | 2 | 2 | V234 | | | 00-3038 V334 00-3038 01-3512 | |
| | 37 Charging | One | 1 | 1 | PDV240 | | | 00-3208 | |
| | 38 Drain Line | One | 1 | 1 | V215 | | | 01-3048 | |
| | 39 HPSI | One | 1 | 1 | V-523 | | | 00-3259 | |
| B 7.80 | 02 Head | One | 1 | 1 | 2-21 2-21 | | | 00-3270 00-3270 | CEDM 92 CEDM 96 |
| B 8.20 | 05 Pressurizer | One | 67% | 67% | 5-1 | 00-3278 00-3279 00-3280 00-3281 | 00-3069 | | Examined 0-240 Code Limited Relief Required |
| B 8.30 | 03 SG 1 | One | 33% | 33% | 3-1 | 01-3325 | 01-3317 | | Examined 0 -120 |
| B 9.11 & 9.12 | 06 RCS Piping | One | 7 | 7 | 1-27 1-30 6-7 | * * * | 01-3506 01-3506 01-3506 | | *Separate report by Wesdyne. Exams completed in U3R7 |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|------------------|------------------|-------------|------------|-------------|---------|---------|-----------------|--------|-----------|
| | | | | | 7-7 | * | 01-3506 | | |
| | | | | | 3-29 | 01-3409 | 01-3401 | | |
| | | | | | 4-30 | 01-3410 | 01-3401 | | |
| | | | | | 17-2 | 01-3407 | 01-3345 | | |
| | 20 PZR Surge | One | 1 | 1 | 20-1 | 01-3195 | 01-3083 | | |
| | 21 SD Cooling | One | 3 | 3 | 6-11 | 01-3076 | 01-3196 | | |
| | | | | | | 01-3075 | | | |
| | | | | | 21-18 | 01-3073 | 01-3196 | | |
| | | | | | 21-20 | 01-3074 | 01-3196 | | |
| | 22 SD Cooling | One | 2 | 2 | 22-11 | 00-3148 | 00-3108 | | |
| | | | | | 22-23 | 00-3149 | 00-3172 | | |
| | 23 SI 1A | One | 4 | 4 | 9-10 | 01-3049 | 01-3026 | | |
| | | | | | | 01-3050 | | | |
| | | | | | 23-1 | 01-3051 | 01-3026 | | |
| | | | | | 23-2 | 01-3052 | 01-3026 | | |
| | | | | | 23-4 | 01-3055 | 01-3026 | | |
| | | | | | | 01-3053 | | | |
| | | | | | 23-6 | 01-3056 | 01-3026 | | Augmented |
| | | | | | | 01-3054 | | | |
| | 25 SI 2A | One | 2 | 2 | 25-26 | 00-3083 | 00-3033 | | |
| | | | | | 25-29 | 00-3084 | 00-3081 | | |
| | 26 SI 2B | One | 2 | 2 | 26-9 | 00-3190 | 00-3176 | | |
| | | | | | 26-11 | 00-3191 | 00-3175 | | |
| | 29 PZR Spray | One | 2 | 2 | 29-10 | 00-3051 | 00-3049 | | |
| | | | | | 29-11 | 00-3052 | 00-3049 | | |
| | | | | | 29-7 | 01-3405 | 01-3404 | | PSE |
| | | | | | 29-9 | 01-3406 | 01-3404 | | PSE |
| | 31 PZR Safety | One | 1 | 1 | 31-1 | 01-3276 | 01-3272 | | |
| B 9.21 & 9.22 | 27 PZR Spray | One | 4 | 4 | 9-11 | | 01-3027 | | |
| | | | | | 27-42 | | 01-3027 | | |
| | | | | | 27-43 | | 01-3027 | | |
| | | | | | 27-44 | | 01-3027 | | |
| | 28 PZR Spray 1A | One | 4 | 4 | 28-31 | | 00-3070 | | |
| | | | | | 28-32 | | 00-3070 | | |
| | | | | | 28-39 | | 00-3070 | | |
| | | | | | 28-40 | | 00-3070 | | |
| | 30 Aux PZR Spray | One | 2 | 2 | 30-1 | 00-3053 | | | Augmented |
| | | | | | 30-2 | 00-3053 | | | Augmented |
| | | | | | 30-4 | | 00-3068 | | |
| | | | | | 30-7 | | 00-3068 | | |
| | 32 Drain 1A | One | 3 | 3 | 8-18 | | 00-3034 | | |
| | | | | | 32-1 | | 00-3034 | | |
| | | | | | 32-2 | | 00-3034 | | |
| | 36 Letdown | One | 4 | 4 | 36-8 | | 00-3201 | | |
| | | | | | 36-9 | | 00-3201 | | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|--------------|----------------------------------|------------|---------|----------|---|--|---|--------------------|--|
| | 37 Charging | One | 5 | 5 | 36-28 36-35 37-41 37-42 37-43 37-45 37-47 | | 00-3255 00-3255 00-3202 00-3202 00-3202 00-3202 00-3202 | | |
| | 39 HPSI A | One | 2 | 2 | 39-1 39-5 | | 00-3204 00-3203 | | |
| | 40 HPSI B | One | 3 | 3 | 40-1 40-2 40-3 | | 01-3346 01-3346 01-3346 | | |
| B 9.31 | 06 RCS Piping | One | 1 | 1 | 9-8 | 01-3408 | 01-3345 | | |
| B 9.32 | 06 RCS Piping 22 SD Cooling | One One | 1 1 | 1 1 | 8-17 22-7A | | 00-3030 00-3107 | | |
| B 9.40 | 32 Drain 1A | One | 1 | 1 | 32-6 32-8 | | 00-3109 01-3318 01-3318 | | PSE PSE |
| | 38 Drain 1 | One | 1 | 1 | 38-5 | | 01-3444 | | |
| B 10.10 | 36 Letdown | One | 1 | 1 | RC91H5 RC91H6 | | 00-3255 00-3255 | | |
| B 12.20 | 17 RCP 1B | One | 1 | 1 | Pump | | | 01-3001 | Disassembled |
| B 13.10 | 01 RPV | One | 100% | 100% | N/A | | | 01-3397 01-3398 | Accessible areas |
| B 14.10 | 02 Head | One | 4 | 4 | 2-9 2-9 2-10 2-10 | 00-3060 00-3061 00-3062 00-3063 00-3064 00-3065 | 00-3199 00-3199 00-3199 00-3199 | | CEDM # 84 CEDM # 88 CEDM # 84 CEDM # 88 |
| B 15.10,20, | RCS Piping 30,40,50, 60,70 | One | ALL | ALL | Press Bound | | 00-3543 00-3112 01-3058,01-3065 01-3396,01-3464 01-3467,01-3508 01-3509,01-3513 01-3514 | | Bolting RR 11&12 |
| BFLYWH | 16 RCP 1A | One | 1 | 1 | Fly Wheel | 01-3426 | | | |
| | 17 RCP 1B | One | 1 | 1 | Fly Wheel | 01-3427 | | | |
| | 18 RCP 2A | One | 1 | 1 | Fly Wheel | 01-3428 | | | |
| | 19 RCP 2B | One | 1 | 1 | Fly Wheel | 01-3429 | | | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks | | | | |
|-----------------|-----------------|-------------|------------|----------------|-----------------|-----|-----------------|----------------|-----------------|--|---------|---------|--|
| F 1.10 | 20 PZR Surge | One | 2 | 2 | RC28H1 | | | 00-3010 | | | | | |
| | | | | | RC28H2 | | | 00-3011 | | | | | |
| | 21 SD Cooling A | One | 7 | 7 | SI240H10 | | | 00-3007 | | | | | |
| | | | | | SI240H11 | | | 00-3008 | | | | | |
| | | | | | SI240H13 | | | 00-3009 | | | | | |
| | | | | | RC51H1 | | | 01-3028 | Support deleted | | | | |
| | | | | | RC51H2 | | | 01-3205 | | | | | |
| | | | | | RC51H3 | | | 01-3206 | | | | | |
| | 22 SD Cooling B | One | 4 | 4 | RC51H821 | | | 01-3204 | | | | | |
| | | | | | RC68H5 | | | 00-3097 | | | | | |
| | | | | | RC68H6 | | | 00-3197 | | | | | |
| | | | | | SI193H17 | | | 00-3095 | | | | | |
| | | | | | SI193H19 | | | 00-3096 | | | | | |
| | 23 SI 1A | One | 1 | 1 | SI207H5 | | | 01-3016 | Support deleted | | | | |
| | 24 SI 1B | One | 2 | 2 | SI223H3 | | | 00-3067 | | | | | |
| | | | | | SI223H4 | | | 00-3002 | | | | | |
| | 25 SI 2A | One | 2 | 2 | SI156H7 | | | 00-3076 | | | | | |
| | | | | | SI156H9 | | | 00-3077 | | | | | |
| | 26 SI 2B | One | 2 | 2 | SI179H9 | | | 00-3001 | | | | | |
| | | | | | SI179H11 | | | 00-3198 | | | | | |
| | 27 PZR Spray 1A | One | 9 | 9 | RC62H26 | | | 00-3012 | | | | | |
| | | | | | RC62H27 | | | 00-3013 | | | | | |
| | | | | | RC62H28 | | | 00-3014 | | | | | |
| | | | | | RC62H29 | | | 00-3015 | | | | | |
| | | | | | RC62H30 | | | 00-3016 | | | | | |
| | | | | | RC62H31 | | | 00-3017 | | | | | |
| | | | | | RC62H32 | | | 00-3018 | | | | | |
| | | | | | RC62H33 | | | 00-3019 | | | | | |
| | | | | | RC62H34 | | | 00-3020 | | | | | |
| | | | | | 28 PZR Spray 1B | One | 9 | 9 | RC17H24 | | | 00-3003 | |
| | | | | | | | | | RC17H34 | | | 00-3021 | |
| | RC17H35 | | | 01-3021 | | | | | | | | | |
| | RC17H36 | | | 00-3022 | | | | | | | | | |
| | RC17H38 | | | 00-3023 | | | | | | | | | |
| | RC17H39 | | | 00-3024 | | | | | | | | | |
| | 29 PZR Spray | One | 2 | 2 | RC17H40 | | | 00-3025 | | | | | |
| RC17H41 | | | | | | | 00-3026 | | | | | | |
| RC17H42 | | | | | | | 00-3027 | | | | | | |
| RC18H16 | | | | | | | 00-3037 | | | | | | |
| RC18H18 | | | | | | | 00-3036 | | | | | | |
| 32 Drain 1A | | | | | One | 2 | 2 | RC60HA | | | 00-3039 | | |
| | | | | | | | | RC60HB | | | 00-3040 | | |
| 36 Letdown | One | 9 | 9 | RC91H1 | | | 00-3256 | | | | | | |
| | | | | RC91H5 | | | 00-3257 | | | | | | |
| | | | | RC91H6 | | | 00-3258 | | | | | | |
| | | | | RC91HB | | | 00-3216 | | | | | | |
| | | | | RC91HD | | | 00-3213 | | | | | | |
| | | | | RC91HE | | | 00-3218 | | | | | | |
| | | | | RC91HY | | | 00-3214 | | | | | | |
| RC91HZ | | | 00-3215 | | | | | | | | | | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|-------------------|-------------|------------|-------------|----------|---------|-----------------|---------|-----------------|
| | | | | | RC91HAA | | | 00-3219 | |
| | | | | | RC91HAK | | | 00-3217 | |
| | 37 Charging | One | 14 | 14 | CH5H2 | | | 00-3231 | |
| | | | | | CH5H3 | | | 00-3232 | |
| | | | | | CH5H20 | | | 01-3473 | PSE |
| | | | | | CH5H25 | | | 00-3233 | |
| | | | | | CH5H26 | | | 00-3225 | |
| | | | | | CH5H27 | | | 00-3224 | |
| | | | | | CH5H28 | | | 00-3222 | |
| | | | | | CH5H30 | | | 00-3226 | |
| | | | | | CH5H34 | | | 00-3220 | |
| | | | | | CH5H35 | | | 00-3221 | |
| | | | | | CH5H36 | | | 00-3223 | |
| | | | | | CH5H42 | | | 00-3234 | |
| | | | | | CH5H43 | | | 00-3486 | |
| | | | | | CH5H44 | | | 00-3235 | |
| | | | | | CH5HAA | | | 00-3236 | |
| | 39 HPSI A | One | 4 | 4 | SI248H26 | | | 00-3228 | |
| | | | | | SI248H27 | | | 00-3227 | |
| | | | | | SI248H28 | | | 00-3229 | |
| | | | | | SI248H30 | | | 00-3230 | |
| | 40 HPSI B | One | 3 | 3 | SI199H13 | | | 01-3029 | |
| | | | | | SI199H14 | | | 01-3030 | |
| | | | | | SI199H21 | | | 01-3031 | Support deleted |
| F 1.40 | 03 SG 1 | One | 1 | 1 | | | | | |
| | | | | | 3-40 | | | 01-3319 | |
| | 16 RCP 1A | One | 2 | 2 | 16-17 | | | 00-3489 | |
| | | | | | 16-18 | | | 00-3528 | |
| | 17 RCP 1B | One | 2 | 2 | 17-17 | | | 00-3527 | |
| | | | | | 17-18 | | | 00-3527 | |
| | 18 RCP 2A | One | 4 | 4 | 18-12 | | | 00-3004 | |
| | | | | | 18-13 | | | 00-3004 | |
| | | | | | 18-14 | | | 00-3004 | |
| | | | | | 18-15 | | | 00-3004 | |
| | 19 RCP 2B | One | 4 | 4 | 19-12 | | | 00-3005 | |
| | | | | | 19-13 | | | 00-3005 | |
| | | | | | 19-14 | | | 00-3005 | |
| | | | | | 19-15 | | | 00-3005 | |
| C 1.10 | 41 SG 1 | One | 1 | 1 | 41-3 | 01-3403 | | | Examined 0 -180 |
| | | | | | 41-4 | 01-3402 | | | Examined 0 -180 |
| | 68 Regen HTEXCH | One | 3 | 3 | 68-3 | 01-3328 | | | |
| | | | | | 68-5 | 01-3330 | | | |
| | | | | | 68-7 | 01-3332 | | | |
| | 69 Letdown HTEXCH | One | 50% | 50% | 69-1 | 00-3276 | | | Examined 0 -180 |
| C 1.20 | 41 SG 1 | One | 1 | 1 | 41-5 | 01-3395 | | | Examined 0 -180 |
| | 68 Regen HTEXCH | One | 2 | 2 | 68-4 | 01-3329 | | | |
| | | | | | 68-6 | 01-3331 | | | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-------------------|-------------------|-------------|------------|-------------|----------|---------|-----------------|-----------------|----------------------|
| C 1.30 | 41 SG 1 | One | 1 | 1 | 41-1 | | 01-3082 | | Examined 0 -180 |
| | 68 Regen HTEXCH | One | 4 | 4 | 68-1 | | 01-3326 | | |
| | | | | | 68-2 | | 01-3327 | | |
| | | | | | 68-8 | | 01-3333 | | |
| | | | | | 68-9 | | 01-3334 | | |
| 69 Letdown HTEXCH | One | 50% | 50% | 69-2 | | 00-3277 | | Examined 0 -180 | |
| C 2.21 | 41 Blowdown | One | 1 | 1 | 41-62 | | 01-3342 | 01-3324 | |
| | 42 Blowdown | One | 1 | 1 | 42-63 | | 01-3341 | 01-3323 | |
| C 3.10 | 41 SG 1 | One | 1 | 1 | 41-36 | | 01-3400 | | |
| | 68 Regen HTEXCH | One | 2 | 2 | 68-10 | | 01-3311 | | |
| | | | | | 68-11 | | 01-3311 | | |
| C 3.20 | 45 MS SG2 | One | 1 | 1 | SG42H14 | | 00-3072 | | First Interval RR 14 |
| | 55 Feedwater | n/a | 1 | 1 | SG5H6 | | 00-3282 | | |
| | | One | 1 | 1 | SG5H9 | | 01-3320 | | |
| | | One | 2 | 2 | SG39H15 | | 01-3343 | | |
| | 64 Blowdown | One | 2 | 2 | SG39H17 | | 01-3343 | | |
| | | | | | | | 01-3343 | | |
| | 65 Blowdown | n/a | 1 | 1 | SG48H23 | | 00-3283 | | First Interval RR 14 |
| | | One | 2 | 2 | SG48H20 | | 01-3344 | | |
| | | | | | SG-52H1 | | 01-3022 | | |
| | 71 LPSI Discharge | One | 1 | 1 | SI87H11 | | 00-3392 | | |
| | 76 CS Suction | One | 1 | 1 | SI9H4 | | 00-3393 | | |
| | 88 East Wrap | One | 1 | 1 | SI72H13 | | 00-3055 | | |
| | 89 East Wrap | One | 1 | 1 | SI194H14 | | 00-3054 | | |
| | 91 West Wrap | One | 4 | 4 | SI70H9 | | 00-3265 | | |
| | | | | | SI70H11 | | 00-3485 | | |
| | | | | | SI70H12 | | 00-3261 | | |
| | | | | | SI70H16 | | 00-3485 | | |
| | | | | | SI241H21 | | 00-3488 | | |
| | 92 West Wrap | One | 1 | 1 | SI241H21 | | 00-3488 | | |
| | 100 LPSI Suction | One | 1 | 1 | SI369H1 | | 00-3151 | | |
| 102 SI | One | 3 | 3 | SI307H2 | | 01-3242 | | | |
| | | | | SI307H3 | | 01-3240 | | | |
| | | | | SI307H15 | | 01-3242 | | | |
| | | | | SI107H22 | | 01-3244 | | | |
| C 3.30 | 72 LPSI | One | 3 | 3 | 72-3A | | 01-3213 | | |
| | | | | | 72-3B | | 01-3213 | | |
| | | | | | 72-3C | | 01-3213 | | |
| | 116 HPSI | One | 4 | 4 | 116-1A | | 01-3233 | | |
| | | | | | 116-1B | | 01-3233 | | |
| | | | | | 116-1C | | 01-3233 | | |
| | | | | | 116-1D | | 01-3233 | | |
| C 4.40 | 47 MS SG 1 | One | 20 | 20 | V170 | | 01-3469 | | |
| | 48 MS SG 1 | One | 20 | 20 | V180 | | 01-3469 | | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-------------------------------------|---------------------------|----------|---------|----------|---------|---------|--------------|--------|---------|
| C 5.11 & 5.12 | 58 Aux Feedwater | One | 0 | 4 | 58-1 | 00-3524 | 00-3273 | | PSE |
| | | | | | 58-2 | 00-3521 | 00-3273 | PSE | |
| | | | | | 58-3 | 00-3522 | 00-3272 | PSE | |
| | | | | | 58-4 | 00-3523 | 00-3273 | PSE | |
| | 59 Aux Feedwater | One | 0 | 3 | 59-6 | 01-3460 | 01-3447 | | PSE |
| | | | | | | 01-3463 | | PSE | |
| | | | | | 59-37 | 01-3461 | 01-3447 | PSE | |
| | | | | | | 01-3462 | | PSE | |
| | | | | | | | | | |
| | 63 Aux FW | One | 1 | 1 | 63-4 | 01-3446 | 01-3392 | | |
| | 70 & 73LPSI Suction A & B | One | 1 | 1 | 70-58 | 00-3455 | 00-3448 | | |
| | 82 & 85 SD Cooling A & B | One | 2 | 2 | 72-50 | 00-3479 | 00-3390 | | |
| | | | | | 73-49 | 01-3347 | 01-3245 | | |
| | 83 & 86 SD Cooling A & B | One | 4 | 4 | 74-19 | 00-3480 | 00-3391 | | |
| | | | | | 74-21 | 00-3482 | 00-3391 | | |
| | | | | | 74-22 | 00-3481 | 00-3391 | | |
| | | | | | 74-105 | 00-3483 | 00-3391 | | |
| | 88 & 91 East & West Wrap | One | 6 | 6 | 78-16 | 00-3195 | 00-3147 | | |
| | | | | | 74-44 | 00-3484 | 00-3264 | | |
| | | | | | 76-2 | 00-3487 | 00-3263 | | |
| | | | | 76-21 | 01-3278 | 01-3217 | | | |
| | | | | 77-7 | 01-3246 | 01-3217 | | | |
| | | | | 77-14 | 01-3279 | 01-3217 | | | |
| 94 SI | One | 1 | 1 | 74-40 | 01-3216 | 01-3215 | | | |
| 96,97,98,99 LPSI Loop 1A,1B, 2A, 2B | One | 3 | 3 | 78-45 | 00-3194 | 00-3173 | | | |
| | | | | 78-47 | 00-3193 | 00-3174 | | | |
| | | | | 79-23 | 01-3335 | 01-3389 | | | |
| 102 SI | One | 1 | 1 | 84-12 | 01-3277 | 01-3240 | | | |
| 103 SI | One | 1 | 1 | 86-57 | 01-3252 | 01-3239 | | | |
| 104 SI | One | 1 | 1 | 85-46 | 01-3468 | 01-3391 | | | |
| | | | | | | 01-3458 | | PSE | |
| 105 SI | One | 1 | 1 | 87-23 | 01-3253 | 01-3241 | | | |
| C 5.21 | 106 & 107 HPSI | One | 4 | 4 | 106-1 | 01-3199 | 01-3197 | | |
| | | | | | 106-21 | 01-3219 | 01-3218 | | |
| | | | | | 107-11 | 01-3248 | 01-3237 | | |
| | | | | | 107-42 | 01-3247 | 01-3237 | | |
| | 108 & 109 HPSI | One | 2 | 2 | 109-4 | 01-3202 | 01-3072 | | |
| | | | | | 109-21 | 01-3200 | 01-3072 | | |
| | 110 & 111 HPSI | One | 2 | 2 | 110-6 | 01-3203 | 01-3071 | | |
| | | | | | 110-39 | 01-3198 | 01-3071 | | |
| | 112 & 113 HPSI | One | 3 | 3 | 112-1 | 01-3251 | 01-3238 | | |
| | | | | | 112-33 | 01-3250 | 01-3238 | | |
| 112-45 | | | | | 01-3249 | 01-3238 | | | |
| 114 & 115 HPSI | One | 1 | 1 | 115-13 | 01-3336 | 01-3393 | | | |
| C 5.30 | 106 & 107 HPSI | One | 1 | 1 | 107-53 | | 01-3237 | | |
| C 5.41 & 5.42 | 82 & 85 SD Cooling A & B | One | 1 | 1 | 72-49B | | 00-3390 | | |
| | 88 & 91 East & West | One | 1 | 1 | 74-102 | | 00-3262 | | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks | |
|--------------------------|------------------------|----------|---------|----------|----------|----------------|----------------|----------------|--|--------------------------------------|
| Wrap | | | | | | | | | | |
| C 5.51 & 5.52 | 43 MS SG1 90 | One | 1 | 1 | 43-2 | 00-3111 | 00-3071 | | | |
| | 44 MS SG1 270 | One | 1 | 1 | 44-1 | 00-3150 | 00-3073 | | | |
| | 46 MS SG2 90 | One | 1 | 1 | 46-25 | 00-3192 | 00-3094 | | | |
| | 54 FW SG 1 | One | 1 | 1 | 54-41 | 01-3212 | 01-3201 | | | |
| | 55 FW SG 2 | One | 2 | 2 | 55-1 | 01-3024 | 01-3023 | | | |
| | 58 Aux Feedwater SG1 | | One | 1(5) | 1(5) | 55-15 | 01-3025 | 01-3023 | | |
| | | | | | | 41-33 | 00-3526 | 00-3272 | | |
| | | | | | | (58-1) | 00-3524 | 00-3273 | | |
| | | | | | | (58-12) | 00-3048 | 00-3031 | | () signifies augmented examinations |
| | | | | | | (58-13) | 00-3047 | 00-3031 | | |
| | 59 Aux Feedwater SG2 | | One | 0(5) | 0(5) | (58-16) | 00-3046 | 00-3031 | | |
| | | | | | | (58-16A) | 00-3045 | 00-3031 | | |
| | | | | | | (59-1) | 00-3269 | 00-3260 | | |
| | | | | | | (59-12) | 00-3044 | 00-3032 | | |
| | | | | | | (59-13) | 00-3041 | 00-3032 | | |
| 64 Blowdown | | One | 1 | 1 | (59-16) | 00-3042 | 00-3032 | | | |
| | | | | | (59-16A) | 00-3043 | 00-3032 | | | |
| | | | | | 59-38 | 01-3459 | 01-3447 | | PSE | |
| 65 Blowdown | | One | 1 | 1 | 64-1 | 01-3339 | 01-3322 | | | |
| 65 Blowdown | | One | 1 | 1 | 65-28 | 01-3340 | 01-3321 | | | |
| C 6.10 | 116 HPSI | One | 1 | 1 | 116-2 | | 01-3243 | | | |
| C 7.10, 7.30, 7.50, 7.70 | Periodic Pressure Test | One | n/a | n/a | n/a | | | | 01-3057,01-3061 01-3062,01-3065 01-3066,01-3067 01-3069,01-3070 01-3220 01-3221,01-3222 01-3223,01-3224 01-3225,01-3226 01-3227,01-3228 01-3229,01-3230 01-3231,01-3232 01-3355,01-3360 01-3361,01-3365 01-3366 01-3367,01-3368 01-3369,01-3370 01-3371,01-3372 01-3373,01-3374 01-3375,01-3376 01-3377,01-3378 01-3379,01-3380 01-3381,01-3390 01-3396 01-3464,01-3465 01-3466,01-3467 01-3504,01-3505 | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------------|--------------------|-------------|------------|-------------|--|-----|-----------------|---|-----------------|
| | | | | | | | | 01-3508,01-3509 01-3510,01-3511 01-3514,01-3515 01-3516,01-3518 01-3519,01-3520 01-3522,01-3523 01-3525 | |
| F 1.20 & F 1.40 | 41 SG 1 | One | 2 | 2 | 41-36 41-37 | | | 01-3443 01-3445 | |
| | 43 MS SG 1 90 | One | 2 | 2 | SG36H17 SG36H884 SG36H885 | | | 00-3075 00-3410 00-3411 | |
| | 44 MS SG1 270 | One | 2 | 2 | SG33H17 SG33H18 | | | 00-3078 00-3079 | |
| | 45 MS SG 2 270 | One | 1 | 1 | SG42H14 | | | 00-3074 | |
| | 46 MS SG 2 90 | One | 2 | 2 | SG45H17 SG45H18 | | | 00-3098 00-3099 | |
| | 47 MS SG1 270 | One | 1 | 1 | SG206H1 | | | 00-3529 | |
| | 51 Atm. Dump SG1 | One | 1 | 1 | SG59H6 | | | 00-3449 | |
| | 53 Steam to Aux FW | One | 4 | 4 | SG81H1 SG81H2 SG83H1 SG83H2 | | | 00-3106 00-3105 00-3104 00-3103 | |
| | 54 FW SG 1 | One | 7 | 7 | SG2H4 SG2H5 SG2H12 SG2H13 SG2H14 SG2H15 SG2H803 | | | 01-3208 01-3209 01-3018 01-3214 01-3210 01-3211 01-3019 | |
| | 55 FW SG 2 | One | 8 | 8 | SG5H9 SG5H10 SG5H11 SG5H12 SG5H805 SG5H809 | | | 01-3350 01-3348 01-3349 01-3011 01-3012 01-3014 | Support deleted |
| | 58 Aux FW | One | 7 | 7 | SG14H1 SG14H804 SG8H2 SG8H3 SG8H4 SG8H5 SG8H20 SG8H901 SG8H903 | | | 01-3013 01-3015 01-3436 01-3435 01-3434 01-3433 01-3432 01-3431 01-3430 | |
| | 59 Aux FW | One | 6 | 6 | AF6H1 SG11H8 SG11H9 SG11H10 SG11H11 | | | 00-3238 00-3240 00-3239 00-3241 00-3242 | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|---------------------|-------------|------------|-------------|----------|-----|-----------------|---------|-----------------|
| | | | | | SG11H12 | | | 00-3237 | |
| | 60 FW SG1 | One | 1 | 1 | SG200H9 | | | 00-3530 | |
| | | | | | SG200H13 | | | 00-3534 | PSE |
| | | | | | SG200H14 | | | 00-3533 | PSE |
| | 61 FW SG 2 | One | 0 | 0 | SG203H13 | | | 00-3531 | PSE |
| | | | | | SG203H14 | | | 00-3532 | PSE |
| | 62 Aux FW SG1 | One | 1 | 1 | AF4H3 | | | 00-3102 | |
| | 63 Aux FW SG2 | One | 2 | 2 | AF6H2 | | | 00-3100 | |
| | | | | | AF16H1 | | | 00-3101 | |
| | 64 Blowdown | One | 10 | 10 | SG39H10 | | | 01-3032 | |
| | | | | | SG39H11 | | | 01-3033 | Support deleted |
| | | | | | SG39H12 | | | 01-3034 | |
| | | | | | SG39H13 | | | 01-3035 | Support deleted |
| | | | | | SG39H14 | | | 01-3036 | Support deleted |
| | | | | | SG39H15 | | | 01-3037 | |
| | | | | | SG39H16 | | | 01-3038 | |
| | | | | | SG39H17 | | | 01-3039 | Support deleted |
| | | | | | SG39H26 | | | 01-3040 | |
| | 65 Blowdown | One | 10 | 10 | SG53H2 | | | 01-3020 | Support deleted |
| | | | | | SG48H2 | | | 01-3010 | Support deleted |
| | | | | | SG48H3 | | | 01-3043 | Support deleted |
| | | | | | SG48H4 | | | 01-3044 | |
| | | | | | SG48H19 | | | 01-3045 | Support deleted |
| | | | | | SG48H20 | | | 01-3046 | Support deleted |
| | | | | | SG48H21 | | | 01-3047 | |
| | | | | | SG52H1 | | | 01-3008 | Support deleted |
| | | | | | SG52H2 | | | 01-3009 | Support deleted |
| | | | | | SG52H3 | | | 01-3041 | Support deleted |
| | | | | | SG52H4 | | | 01-3042 | |
| | 68 Regen HTEXCH | One | 2 | 2 | 68-10 | | | 01-3312 | |
| | | | | | 68-11 | | | 01-3312 | |
| | 70 LPSI Suction A | One | 1 | 1 | SI67H4 | | | 00-3249 | |
| | 72 LPSI | One | 3 | 3 | 72-3A | | | 01-3207 | |
| | | | | | 72-3B | | | 01-3207 | |
| | | | | | 72-3C | | | 01-3207 | |
| | 71 LPSI Discharge A | One | 1 | 1 | SI87H11 | | | 00-3394 | |
| | 73 LPSI Suction B | One | 0 | 0 | SI308H12 | | | 00-3120 | PSE |
| | 76 CS Suction A | One | 1 | 1 | SI9H4 | | | 00-3395 | |
| | | | | | SI67H1 | | | 01-3256 | PSE |
| | | | | | SI67H3 | | | 01-3257 | PSE |
| | 77 CS Discharge A | One | 4 | 4 | SI79H1 | | | 00-3243 | |
| | | | | | SI79H2 | | | 00-3244 | |
| | | | | | SI79H3 | | | 00-3246 | |
| | | | | | SI79H4 | | | 00-3245 | |
| | 79 CS Suction B | One | 3 | 3 | SI34H1 | | | 00-3169 | |
| | | | | | SI34H2 | | | 00-3168 | |
| | | | | | SI34H3 | | | 00-3167 | |
| | | | | | SI34H1 | | | 00-3128 | PSE |
| | | | | | SI34H3 | | | 00-3122 | PSE |
| | | | | | SI33H4 | | | 00-3117 | PSE |
| | | | | | SI34H6 | | | 00-3196 | PSE |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|----------------|-------------|----------------|-------------|----------|-----------|-----------------|----------------|---------|
| 80 | CS Discharge B | One | 3 | 3 | SI119H7 | | | 00-3166 | |
| | | | | | SI119H8 | | | 00-3165 | |
| | | | | | SI119H9 | | | 00-3164 | |
| 82 | SD Cooling A | One | 2 | 2 | SI78H5 | | | 00-3248 | |
| | | | | | SI79H10 | | | 00-3247 | |
| 83 | SD Cooling A | One | 4 | 4 | SI87H9 | | | 00-3250 | |
| | | | | | SI89H1 | | | 00-3253 | |
| | | | | | SI89H2 | | | 00-3251 | |
| | | | | | SI89H3 | | | 00-3252 | |
| 85 | SD Cooling B | One | 3 | 3 | SI119H10 | | | 00-3158 | |
| | | | | | SI123H6 | | | 00-3160 | |
| | | | | | SI123H7 | | | 00-3159 | |
| 86 | SD Cooling B | One | 3 | 3 | SI129H10 | | | 00-3157 | |
| | | | | | SI129H11 | | | 00-3156 | |
| | | | | | SI129H12 | | | 00-3155 | |
| 88 | East Wrap | One | 8 | 8 | SI72H11 | | | 00-3056 | |
| | | | | | SI72H13 | | | 00-3058 | |
| | | | | | SI72H14 | | | 00-3057 | |
| | | | | | SI72H21 | | | 01-3451 | |
| | | | | | SI72H22 | | | 01-3452 | |
| | | | | | SI73H1 | | | 01-3448 | |
| | | | | | SI73H2 | | | 01-3449 | |
| | | | | | SI73H3 | | | 01-3450 | |
| 89 | East Wrap | One | 4 | 4 | SI194H12 | | | 00-3154 | |
| | | | | | SI194H13 | | | 00-3153 | |
| | | | | | SI194H14 | | | 00-3059 | |
| | | | | | SI194H23 | | | 00-3152 | |
| | | | | | SI38H1 | | | 00-3183 | PSE |
| 91 | West Wrap | One | 7 | 7 | SI194H13 | | | 00-3177 | PSE |
| | | | | | SI70H9 | | | 00-3398 | |
| | | | | | SI70H10 | | | 00-3397 | |
| | | | | | SI70H11 | | | 00-3413 | |
| | | | | | SI70H12 | | | 00-3399 | |
| | | | | | SI70H13 | | | 00-3414 | |
| | | | | | SI70H14 | | | 00-3415 | |
| | | | | | SI70H15 | | | 00-3396 | |
| | | | | | SI70H16 | | | 00-3412 | |
| | | | | | 92 | West Wrap | One | 5 | 5 |
| SI241H9 | | | 01-3260 | PSE | | | | | |
| SI241H11 | | | 01-3261 | PSE | | | | | |
| SI241H12 | | | 00-3274 | | | | | | |
| SI241H14 | | | 01-3262 | PSE | | | | | |
| 94 | LPSI A | One | 3 | 3 | SI241H14 | | | 00-3400 | |
| | | | | | SI241H15 | | | 01-3263 | PSE |
| | | | | | SI241H21 | | | 00-3401 | |
| | | | | | SI89H7 | | | 00-3490 | |
| | | | | | SI89H8 | | | 00-3467 | |
| | | | | | SI89H9 | | | 00-3466 | |
| | | | | | SI241H5 | | | 00-3465 | |
| SI241H7 | | | 01-3258 | PSE | | | | | |
| | | | | | | | 01-3259 | PSE | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|----------------------|---------------|-------------|----------------|-------------|---------|-----|-----------------|-----------------|---------|
| 95 LPSI B | One | 6 | 6 | SI241H8 | | | 01-3271 | PSE | |
| | | | | SI72H8 | | | 00-3464 | | |
| | | | | SI72H10 | | | 00-3459 | | |
| | | | | SI134H11 | | | 00-3458 | | |
| | | | | SI134H12 | | | 00-3542 | | |
| | | | | SI194H3 | | | 00-3506 | | |
| | | | | SI194H5 | | | 00-3511 | | |
| | | | | SI194H5 | | | 00-3126 | PSE | |
| | | | | SI194H7 | | | 00-3125 | PSE | |
| | | | | SI194H15 | | | 00-3124 | PSE | |
| 96 LPSI to Loop 1A | One | 3 | 3 | SI194H21 | | | 00-3119 | PSE | |
| | | | | SI202H7 | | | 00-3496 | | |
| | | | | SI202H8 | | | 00-3495 | | |
| 97 LPSI to Loop 1B | One | 10 | 10 | SI202H9 | | | 00-3494 | | |
| | | | | SI220H9 | | | 00-3505 | | |
| | | | | SI220H10 | | | 00-3504 | | |
| | | | | SI220H11 | | | 00-3503 | | |
| | | | | SI220H12 | | | 00-3502 | | |
| | | | | SI220H13 | | | 00-3501 | | |
| | | | | SI220H14 | | | 00-3500 | | |
| | | | | SI220H15 | | | 00-3499 | | |
| | | | | SI220H19 | | | 00-3498 | | |
| | | | | SI220H22 | | | 00-3497 | | |
| 98 LPSI to Loop 2A | One | 2 | 2 | SI220H8 | | | 01-3472 | | |
| | | | | SI155H5 | | | 00-3163 | | |
| 100 LPSI A Suction | One | 2 | 2 | SI155H6 | | | 00-3162 | | |
| | | | | SI241H19 | | | 00-3029 | | |
| 102 SI | One | 6 | 6 | SI369H1 | | | 00-3161 | | |
| | | | | SI8H4 | | | 01-3254 | PSE | |
| | | | | SI9H1 | | | 01-3255 | PSE | |
| | | | | SI307H2 | | | 01-3264 | PSE | |
| | | | | | | | 01-3281 | | |
| | | | | SI307H3 | | | 01-3282 | | |
| | | | | SI307H4 | | | 01-3470 | Support deleted | |
| | | | | SI307H5 | | | 01-3265 | PSE | |
| | | | | | | | 01-3283 | | |
| | | | | | | | 01-3266 | PSE | |
| 103 Refuel Suction A | One | 6 | 6 | SI307H7 | | | 01-3267 | PSE | |
| | | | | SI307H8 | | | 01-3471 | | |
| | | | | SI307H15 | | | 01-3284 | | |
| | | | | CH142H13 | | | 00-3519 | | |
| | | | | CH142H14 | | | 00-3518 | | |
| | | | | CH142H15 | | | 00-3517 | | |
| | | | | CH142H19 | | | 00-3516 | | |
| | | | | CH142H22 | | | 00-3515 | | |
| | | | | CH424H1 | | | 00-3520 | | |
| | | | | CH424H2 | | | 01-3269 | PSE | |
| CH424H3 | | | 01-3270 | PSE | | | | | |
| 104 SI Suction B | One | 7 | 7 | SI142H3 | | | 01-3268 | PSE | |
| | | | | SI33H1 | | | 00-3512 | | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|-----------------|-------------|------------|-------------|----------|-----|-----------------|---------|---------|
| | | | | | SI33H2 | | | 00-3513 | |
| | | | | | SI33H3 | | | 00-3514 | |
| | | | | | SI308H5 | | | 00-3507 | |
| | | | | | SI308H8 | | | 00-3508 | |
| | | | | | SI308H10 | | | 00-3509 | |
| | | | | | SI308H11 | | | 00-3510 | |
| | | | | | SI031H1 | | | 00-3127 | PSE |
| | | | | | SI308H2 | | | 00-3180 | PSE |
| | | | | | SI308H4 | | | 00-3181 | PSE |
| | | | | | SI308H5 | | | 00-3182 | PSE |
| | | | | | SI308H9 | | | 00-3115 | PSE |
| 105 | Refueling Water | One | 7 | 7 | CH149H3 | | | 00-3116 | PSE |
| | | | | | CH149H5 | | | 00-3123 | PSE |
| | | | | | CH149H7 | | | 00-3121 | PSE |
| | | | | | CH149H8 | | | 00-3184 | PSE |
| | | | | | CH149H12 | | | 00-3179 | PSE |
| | | | | | CH149H14 | | | 00-3178 | PSE |
| | | | | | CH149H21 | | | 00-3118 | PSE |
| | | | | | CH149H9 | | | 01-3285 | |
| | | | | | CH149H10 | | | 01-3286 | |
| | | | | | CH149H12 | | | 01-3287 | |
| | | | | | CH149H13 | | | 01-3288 | |
| | | | | | CH149H14 | | | 01-3289 | |
| | | | | | CH149H21 | | | 01-3280 | |
| | | | | | CH149H28 | | | 01-3290 | |
| 106 | HPSI | One | 8 | 8 | SI99H1 | | | 01-3422 | |
| | | | | | SI99H2 | | | 01-3423 | |
| | | | | | SI100H1 | | | 01-3417 | |
| | | | | | SI100H2 | | | 01-3418 | |
| | | | | | SI100H3 | | | 01-3419 | |
| | | | | | SI100H5 | | | 01-3420 | |
| | | | | | SI100H34 | | | 01-3421 | |
| | | | | | SI106H1 | | | 01-3424 | |
| 107 | HPSI | One | 6 | 6 | SI107H3 | | | 01-3352 | |
| | | | | | SI107H11 | | | 01-3293 | |
| | | | | | SI107H12 | | | 01-3292 | |
| | | | | | SI112HC | | | 01-3353 | |
| | | | | | SI112HG | | | 01-3351 | |
| | | | | | SI112HH | | | 01-3291 | |
| 108 | HPSI Discharge | One | 11 | 11 | SI100H22 | | | 00-3468 | |
| | | | | | SI100H23 | | | 00-3469 | |
| | | | | | SI100H24 | | | 00-3470 | |
| | | | | | SI100H25 | | | 00-3471 | |
| | | | | | SI100H26 | | | 00-3472 | |
| | | | | | SI100H27 | | | 00-3473 | |
| | | | | | SI100H28 | | | 00-3474 | |
| | | | | | SI100H29 | | | 00-3475 | |
| | | | | | SI100H31 | | | 00-3476 | |
| | | | | | SI100H32 | | | 00-3478 | |
| | | | | | SI100H35 | | | 00-3477 | |
| 109 | HPSI | One | 7 | 7 | SI107H13 | | | 01-3437 | |

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|---------------|-------------|------------|-------------|----------|-----|-----------------|---------|-----------------|
| | | | | | SI107H14 | | | 01-3438 | |
| | | | | | SI107H15 | | | 01-3439 | |
| | | | | | SI107H16 | | | 01-3440 | |
| | | | | | SI107H21 | | | 01-3441 | |
| | | | | | SI107H47 | | | 01-3442 | |
| | | | | | SI107H50 | | | 01-3425 | Support deleted |
| 110 | HPSI | One | 7 | 7 | SI103HB | | | 01-3298 | |
| | | | | | SI103HD | | | 01-3299 | |
| | | | | | SI103HE | | | 01-3300 | |
| | | | | | SI218H1 | | | 01-3294 | |
| | | | | | SI218H2 | | | 01-3295 | |
| | | | | | SI218H3 | | | 01-3296 | |
| | | | | | SI218H4 | | | 01-3297 | |
| 111 | HPSI | One | 3 | 3 | SI100H37 | | | 01-3302 | |
| | | | | | SI100HA | | | 01-3354 | |
| | | | | | SI100HB | | | 01-3301 | |
| 112 | HPSI | One | 3 | 3 | SI176H1 | | | 01-3303 | |
| | | | | | SI176H2 | | | 01-3304 | |
| | | | | | SI176H3 | | | 01-3305 | |
| 113 | HPSI | One | 5 | 5 | SI107H22 | | | 01-3309 | |
| | | | | | SI107H24 | | | 01-3310 | |
| | | | | | SI157H2 | | | 01-3306 | |
| | | | | | SI157H3 | | | 01-3307 | |
| | | | | | SI157H4 | | | 01-3308 | |
| 116 | HPSI | One | 4 | 4 | 116-1A | | | 01-3234 | |
| | | | | | 116-1B | | | 01-3234 | |
| | | | | | 116-1C | | | 01-3234 | |
| | | | | | 116-1D | | | 01-3234 | |

APPENDIX B
CODE LIMITATIONS

The following list of welds are single side access austenitic butt welds. Based on the requirements of 10CFR50.55a full credit cannot be taken for the ASME Section XI required code examination volume.

Table 1:

| ASME Item | Zone | Weld | Coverage | Report # |
|-----------|------|-------|----------|---------------------|
| B 9.11 | 23 | 23-4 | 50% | 01-3055, 01-3053 |
| B 9.11 | 23 | 23-6 | 50% | 01-3056 01-3054 |
| C 1.30 | 68 | 1 | 50% | 01-3326 |
| C 1.30 | 68 | 2 | 50% | 01-3327 |
| C 1.30 | 68 | 8 | 50% | 01-3333 |
| C 1.30 | 68 | 9 | 50% | 01-3334 |
| C 5.11 | 63 | 63-4 | 50% | 01-3446 |
| C 5.11 | 91 | 77-7 | 50% | 01-3246 |
| C 5.11 | 91 | 77-14 | 50% | 01-3279 |
| C 5.11 | 102 | 84-12 | 50% | 01-3277 |
| C 5.11 | 104 | 85-46 | 50% | 01-3468 |
| C 5.21 | 106 | 1 | 50% | 01-3199 |
| C 5.21 | 106 | 21 | 50% | 01-3219 |
| C 5.21 | 107 | 11 | 50% | 01-3248 |
| C 5.21 | 107 | 42 | 50% | 01-3247 |
| C 5.21 | 109 | 21 | 50% | 01-3200 |
| C 5.21 | 110 | 39 | 50% | 01-3198 |
| C 5.21 | 112 | 45 | 50% | 01-3249 |
| C 5.21 | 115 | 13 | 50% | 01-3336 |

APPENDIX C

**IWL INSERVICE INSPECTION
SUMMARY REPORT**

APPENDIX C

SPECIFIC REPORTING REQUIREMENT:

10CFR50.55a(b)(2)(viii)(D) states: "The licensee shall report the following conditions, if they occur, in the ISI Summary Report required by IWA-6000;

1. The sampled sheathing filler grease contains chemically combined water exceeding 10 percent by weight or the presence of free water.
2. The absolute difference between the amount removed and the amount replaced exceeds 10 percent of the tendon net duct volume.
3. Grease leakage is detected during general visual examination of the containment surface.

CONDITIONS IDENTIFIED:

1. During the unit 3 baseline concrete containment visual examination per subsection IWL, six through wall tendon grease leaks were identified (ref. Visual Examination Reports# 2001-1336, 1339, 1342, 1415, 1472, 1480). Three of the tendon grease leaks had been previously identified (in November of 1993) and evaluated as acceptable on CRDR# 3-3-0454. The dimensions of the concrete discoloration due to the tendon grease leakage at all three of the conditions identified in CRDR# 3-3-0454 have remained unchanged.

The three new tendon grease leaks are also small weeps. Random monitoring (from September of 2001 to present) has verified that the dimensions of the concrete discoloration due to the tendon grease leakage has also remained unchanged. The new tendon grease leaks were documented and evaluated as acceptable on CRDR# 2418685.

The insignificant tendon grease leakage will not create a void in a tendon sheath nor inhibit the corrosion protection function of the tendon grease. For unit 3, the Tendon Integrity surveillance and Integrated Leak Rate Test programs have consistently demonstrated the structural integrity and leak tight integrity of the concrete containment structure.

APPENDIX D

**FORM
NIS-1**

1. OWNER - *ARIZONA PUBLIC SERVICE COMPANY, et al*
ADDRESS - *P.O. BOX 52034, PHOENIX, ARIZONA 85072*
2. PLANT - *PALO VERDE NUCLEAR GENERATING STATION*
ADDRESS - *5801 SOUTH WINTERSBURG ROAD; TONOPAH, ARIZONA 85354-7529*
3. UNIT NUMBER - 3
4. OWNERS' CERTIFICATE OF AUTHORIZATION - *NONE*
5. COMMERCIAL SERVICE DATE - January 8, 1988
6. COMPONENTS INSPECTED:

| COMPONENT OR APPURTENANCE | MANUFACTURER OR INSTALLER | SERIAL NUMBER | STATE OR PROVINCE | NATIONAL BOARD NO |
|---------------------------|---------------------------|---------------|-------------------|-------------------|
|---------------------------|---------------------------|---------------|-------------------|-------------------|

This report is a running summary of all second interval examinations performed to date for Unit 3. The report also includes several examinations that were deferred by relief request for the first inservice interval. The items examined, along with the examination report numbers, are listed in Appendix A.

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 9-28-2001 TO 11-05-2001
8. INSPECTION INTERVAL FROM 1-11-98 TO 1-10-2008
9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.

The items examined, along with the examination report numbers, are listed in Appendix A. The examinations are listed by ASME Item Numbers with the corresponding examination report numbers. All of the examinations for the ninth refueling are identified with a 01-3XXX report number and are in bold face.

10. ABSTRACT OF CONDITIONS NOTED

No rejectable conditions were detected during the performance of examinations.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

No corrective measures were taken as a result of the examinations performed. A MNSA clamp was installed on the RCS hot leg in accordance with Request for Relief 17.

Several repairs and replacements have been performed since the last summary report due to routine or corrective maintenance. The work was performed in accordance with ASME Section XI and APS Work Control procedures. Applicable NIS-2 forms are included in Appendix D and a copy maintained on file at Palo Verde Nuclear Generating Station by Arizona Public Service Company.

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THE EXAMINATIONS AND CORRECTIVE MEASURES TAKEN CONFORM TO THE RULES OF THE ASME CODE, SECTION XI.

DATE 1/02/02 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Michael A. Melton

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 EMPLOYED BY HSBI & I CO. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 5-1-00 TO 11-5-01, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED EXAMINATIONS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS 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 OWNERS 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 RA J. Jorgensen COMMISSIONS NB 9685 "N" "I" "C" Az 264
 DATE 1-2-02 NAT'L BOARD, STATE, PROVINCE

APPENDIX E

**FORMS
NIS-2**

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSIBUV0332 2. Code Class 1
3. Item Description HOT LEG INJECTION B CHECK VALVE LEAKOFF VALVE
4. N-5 Package Number 3RC01-3 5. W.O. Number 212187
6. Original Construction Code Edition ASME SECT. III, CL 1 1974 EDITION S'75 ADD
7. Original Installation Code Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
8. Work Description REPLACE THE PLUG TO ALLIVATE SEAT LEAKAGE. REPLACE THE LEAKOFF PIPING WITH A PIPE CAP PER 13-PN-204, ATTACHMENT 5. J.O. 10-12-01
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.
Seat leakage. No failure in the ASME boundary. RPR
5/22/01

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
14. ASME Section XI Code/Edition ASME SECT. III, CL 1 1992 EDITION 92 ADD

15. Preservice Inspection Required. YES NO
JD 05/22/01 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 05/22/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- JD 05/22/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- JD 05/22/01 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. |
|--------------------|-------------|------------|----------|------------|
| PLUG/STEM ASSEMBLY | 21A4452X102 | 37492 | N/A | 000586062 |
| PIPE CAP | CT050S | N/A | 1492WA | 000585515 |
| | | | | |
| | | | | |

19. Planner [Signature] 5-22-01 Print Name JAMES I. DAVIS
Signature Date
20. ISI Engineer [Signature] 5-22-01 Print Name R.P. INDAP
Signature Date
21. ANII [Signature] 5-22-01 Print Name R.G. HOLSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/15/01
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 212187
Address Work Order Number
3. Work Performed by Arizona Public Service 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 Safety Injection
5. (a) Applicable Construction Code ASME Sec III, CI 1 19 74 Edition, S'75 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| VALVE | FISHER | 6540515 | 4602 | 3JSIBUV0332 | 1979 | Repaired | Yes |
| VALVE PLUG | FISHER | 37492 | NA | 3JSIBUV0332 | 2001 | Replacement | No |
| CAP | N/A | N/A | 149ZNA | 3JSIBUV0332 | 2001 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REPLACE THE VALVE PLUG TO ALLIEVIATE SEAT LEAKAGE.

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 212187 replaced the valve plug because of seat leakage. The work order also replaced the leakoff piping with a pipe cap per the requirements of 13-PN-0220 (valve packing procedure).

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] ISI ENGINEER Date 10-17-01
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 5-22-01 to 10-17-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 17, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JCHEUV0239 2. Code Class ASME III CL. 2
3. Item Description 2" AIR OPERATED GLOBE VALVE
4. N-5 Package Number 3CH15-3 5. W.O. Number 234912
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description VALVE DISASSEMBLY DUE TO SEAT LEAKAGE
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Replacement is to correct seat leakage. No failure in the ASME boundary. RPZ 7/18/01.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition SEC. III CL.2/'74 ED. SUMMER '75 ADD.
13. Repair/Replacement Activity Construction Code/Edition SEC. III CL.2/'74 ED. WINTER '75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. YES NO

AB 7/18/2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO

AS 07/18/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

AS 07/18/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

AS 07/18/01 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. |
|-------------|-------------------|------------|----------|------------|
| 3JCHEUV0239 | IU4617X0032(plug) | CB 3976-1 | 30534 | 585403 |
| PIPE CAP | APD 435506U | N/A | 149 ZNA | PL 0522856 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner [Signature] 7/18/01 Print Name James G. Boulanger
Signature Date
20. ISI Engineer [Signature] 7/18/01 Print Name R.P. INDAP
Signature Date
21. ANII [Signature] 10-14-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 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 234912
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 CVCS-CH Chemical & Volume Control System
5. (a) Applicable Construction Code ASME III Class 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) |
|--------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Plug/Stem Assembly | Fisher | CB3976-1 | N/A | 3JCHEHV239 | 1990 | Replacement | Yes |
| Cap | N/A | N/A | N/A | 3JCHEHV239 | 2001 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Disassembled vlv to correct seat leakage, replaced vlv plug & capped leak-off port.
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. 234912

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 10/14/01
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 10-14-01 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.

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

Date 10/14/01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3²⁰⁰¹PSGEL011 2. Code Class ASME Section III, Class 2
3. Item Description Pipe Spool S-008
4. N-5 Package Number 3SG02-2 5. W.O. Number 242142
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 Piping Spool due to Flow Accelerated Erosion/Corrosion, ENGDM# 242141.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Replacement of Eroded Pipe with Stainless Steel as described in ENGDM# 242141, EDC# 2000-00403. There has been no failure of the Code Pressure boundary.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Sec. III Cl.2/'74 Edition '75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Sec. III Cl.2/'74 Edition '75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. YES NO
KVS 8/8/2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
KVS 8/8/2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- KVS 8/8/2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- KVS 8/8/2001 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. |
|--------------|----------|------------|----------|---------------|
| 8" S.S. Pipe | 00052303 | 184169 | F00154 | MR# 528893 |
| 8" CS. PIPE | 64731 | | 27589 | PO. 500242330 |
| | | | | |
| | | | | |
| | | | | |

19. Planner Karl V. Savage 8/8/2001 Print Name Karl V. Savage
Signature Date
20. ISI Engineer R. Indap 8/14/01 Print Name Ramakant P. Indap
Signature Date
21. ANII R. Hogstrom 8-14-01 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 04/28/01
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 242142
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, AZ 85354-7529 Expiration Date N/A
Address

4. Identification of System SG

5. (a) Applicable Construction Code ASME III Class 2 1974 Edition, W '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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Pipe Spool | N/A | N/A | N/A | 3PSGEL011 | 2001 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replaced pipe spool due to flow accelerated erosion/corrosion of original 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 Pressure Test per N-416-1, WO# 242142, Replaced Portion of Pipe Spool S-008 Of Line
3PSGEL011 with Stainless Steel.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed RL Brown RL B ISI Engineer Date 11/3/01
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 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.

RL Brown 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 3SG200H003 Top 2. Code Class SECTION III Subsection NF Class 2
 3. Item Description 35 KIP SNUBBER
 4. N-5 Package Number 3AF02-2 5. W.O. Number 1129067
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Replace Snubber

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.
Not a failure. Changed for precautionary measures. This is a like for like replacement

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

15. Preservice Inspection Required. YES NO
DMG 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 3-8-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 3-8-2001 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. |
|----------------|----------|------------|----------|------------|
| 3SG200H003 Top | N/A | 6289 | N/A | N/A |
| | | | | |
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19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date
 21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
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 1129067
Address Work Order Number

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

Authorization No. N/A

5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date N/A
Address

4. Identification of System "SG" Steam Generator

5. (a) Applicable Construction Code Subsect. NF 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) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 35 Kip Snubber | Pacific Scientific | 6289 | N/A | 3SG200H003T | 1980 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Snubber Replacement (No Welding)

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

Other Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#1129067 Removed snubber Serial number 9563 and replaced it with serial number 6289

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. Bondap, ISE Engineer Date 6-05-2001
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 5-23-01 to 6-5-01, 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. A. J. J. J. Commissions NB 9685 "N" "I" Az-264
Inspector's Signature National Board, State, Province, and Endorsements
Date 5 JUNE 01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PC022H016 2. Code Class SECTION III Subsection NF Class 3
 3. Item Description 10 KIP SNUBBER
 4. N-5 Package Number 3PC02-3 5. W.O. Number 1187145
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Replace Snubber

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.
Not a failure. Changed for precautionary measures. This a like for like replacement

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

15. Preservice Inspection Required. YES NO
DMG 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 3-5-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 3-8-2001 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. |
|------------|----------|------------|----------|------------|
| 3PC022H016 | N/A | 13086 | N/A | N/A |
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19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date
 21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
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 1187145
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S Wintersburg Road, Tonopah Arizona 85354-752 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System "PC" Pool Cooling
5. (a) Applicable Construction Code Subsect. NF Class 3 19 74 Edition, W'75 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 10 Kip Snubber | Pacific Scientific | 13086 | N/A | 3PC022H016 | 1982 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Snubber Replacement (No Welding)
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
- Other Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#1187145 Removed snubber Serial number 9680 and replaced it with serial number 13086

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 6-5-2001
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 3-23-01 to 6-5-01, 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 NS 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 5, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SG095H004 2. Code Class SECTION III Subsection NF Class 2
 3. Item Description 1 KIP SNUBBER
 4. N-5 Package Number 3SG03-1 5. W.O. Number 1187155
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Remove snubber, test, and reinstall.

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.
Not a failure. Changed for precautionary measures. This is a like for like replacement

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

15. Preservice Inspection Required. YES NO
DMG 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 3-8-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 3-8-2001 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. |
|------------|----------|------------|----------|------------|
| 3SG095H004 | N/A | 4690 | N/A | N/A |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date
 21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
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 1187155
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S Wintersburg Road, Tonopah Arizona 85354-752 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System "SG" Steam Generator

5. (a) Applicable Construction Code Subsect. NF 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 1Kip Snubber | Pacific Scientific | 4690 | N/A | 3SG095H004 | 1978 | Replacement | Yes |
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7. Description of Work Snubber Replacement (No Welding)

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

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

FORM NIS-2 (Back)

9. Remarks WO#1187155 Removed snubber Serial number 21604 and replaced it with serial number 4690

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] ISE Engineer Date 6-5-2001
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 3-23-01 to 6-5-01, 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 NS 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/5/01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SG095H008 EAST 2. Code Class SECTION III Subsection NF Class 2
 3. Item Description 3 KIP SNUBBER
 4. N-5 Package Number 3SG03-1 5. W.O. Number 1187156
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Replace Snubber

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.
Not a failure. Changed for precautionary measures. This is a like for like replacement

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

15. Preservice Inspection Required. YES NO
DG 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DG 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DG 3-8-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DG 3-8-2001 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. |
|-----------------|----------|------------|----------|------------|
| 3SG095H008 EAST | N/A | 19440 | N/A | N/A |
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19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date

20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date

21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
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 1187156
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S Wintersburg Road, Tonopah Arizona 85354-752 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System "SG" Steam Generator

5. (a) Applicable Construction Code Subsect. NF 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) |
|---------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 3 Kip Snubber | Pacific Scientific | 19440 | N/A | 3SG095H008E | 1981 | Replacement | Yes |
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7. Description of Work Snubber Replacement (No Welding)

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

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

FORM NIS-2 (Back)

9. Remarks WO#1187156 Removed snubber Serial number 20543 and replaced it with serial number 19440

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 6-5-2001
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 3-23-01 to 6-5-01, 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 6-5-2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI072H018 2. Code Class SECTION III Subsection NF Class 2
3. Item Description 10 KIP SNUBBER
4. N-5 Package Number 3SI07-5 5. W.O. Number 1197142
6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
8. Work Description Relace Snubber
-
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.
Not a failure. Changed for precautionary measures. This is a Like for Like Replacement
-
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. YES NO
Dmg 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
Dmg 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

Dmg 3-8-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

Dmg 3-8-2001 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. |
|------------|----------|------------|----------|------------|
| 3SI072H018 | N/A | 5715 | N/A | N/A |
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19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date
20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date
21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 1197142
Address Work Order Number

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

5801 S Wintersburg Road, Tonopah Arizona 85354-752 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System "SI" Safety Injection

5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W75 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) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 10 Kip Snubber | Pacific Scientific | 5715 | N/A | 3SI072H018 | 1979 | Replacement | Yes |
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7. Description of Work Snubber Replacement (No Welding)

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

Other Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#1197142 Removed snubber Serial number 13231 and replaced it with serial number 5715

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Pindap, ISI Engineer Date 6-5-2001
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 3-23-01 to 6-5-01, 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. P. Pindap Commissions NS 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 6-5-01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JECALV0015 2. Code Class ASME SECT III CL3, 74 ED, WIN 75
 3. Item Description ECWS EXP TANK CONTROL VALVE
 4. N-5 Package Number 3EC-01-3 5. W.O. Number 00-2316913
 6. Original Construction Code Edition ASME SECT III CL3, 74 ED, WIN 75
 7. Original Installation Code Edition ASME SECT III CL3, 74 ED, WIN 75
 8. Work Description Removal & installation of body to bonnet seal weld - to inspect valve internals PAF 1/31/01
 9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO FAILURE IN ASME BOUNDRY.

 11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT III CL3, 74 ED, WIN 75
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT III CL3, 74 ED, WIN 75
 14. ASME Section XI Code/Edition 1992 EDITION and 1992 ADDENDA

15. Preservice Inspection Required. YES NO
RCO 1/9/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
RCO 1/9/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

RCO 1/9/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

RCO 1/9/01 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. |
|------------|----------|------------|----------|---------------|
| PILOT DISC | 102175-1 | 532 | N/A | 00496776-0002 |
| MAIN DISC | 200931-1 | 284 | N/A | 00496776-0001 |
| | | | | |
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19. Planner G. Osmundson 1/9/01 Print Name G. OSMUNDSON
Signature Date
 20. ISI Engineer R.P. Indap 1/31/01 Print Name R. P. INDAP
Signature Date
 21. ANII R.G. Hogstrom 1-31-01 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 02/05/01
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 00-2316913
Address Work Order Number

3. Work Performed by APS Type Code Symbol Stamp None
Name
SAME AS "2" ABOVE Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 3EC01-3

5. (a) Applicable Construction Code ASME SEC III CL 3 19 74 Edition, W'75 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Main disc | Target Rock | 28A | N/A | 3JECALV0015 | 2000 | Replacement | No |
| Pilot disc | Target Rock | 532 | N/A | 3JECALV0015 | 2000 | Replacement | No |
| | | | | | | | |
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7. Description of Work REMOVE AND REPLACE MAIN & PILOT DISC AND REWELD SEAL WELD

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 SWMS WO#00-2316913 REPLACE MAIN DISC AND PILOT DISC IN VALVE
3JECALV0015 MFG TARGET ROCK.

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 *William Morrison* *Sr. PSE Engineer* Date *3-16-01*
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 1-31-01 to 3-22-01, 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.

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

Date March 22, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PSIAV404 2. Code Class 2
 3. Item Description HPSI "A" CHECK VALVE
 4. N-5 Package Number 3SI09-3 5. W.O. Number 2350651
 6. Original Construction Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 7. Original Installation Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 8. Work Description INSTALL NEW VALVE INTERNALS AS REQUIRED DUE TO SEAT LEAKAGE.

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.
LIKE FOR LIKE RE-PHASEMENT

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. III, CL 1 1992 EDITION 92 ADD

15. Preservice Inspection Required. YES NO
N/A JD 1-31-01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
JD 1-31-01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
JD 1-31-01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
JD 1-31-01 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. |
|------------------------|--------------|-----------------|--------------|---------------|
| <u>DISC & STUD</u> | <u>79546</u> | <u>RS214333</u> | <u>98141</u> | <u>501183</u> |
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19. Planner [Signature] 1-31-01 Print Name JAMES I. DAVIS
Signature Date
 20. ISI Engineer [Signature] 1-31-01 Print Name R. L. BROWNING
Signature Date
 21. ANII [Signature] 1-31-01 Print Name R. G. HOUSTON
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/23/01
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 2350651
Address Work Order Number
3. Work Performed by Arizona Public Service 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 Safety Injection
5. (a) Applicable Construction Code ASME Sect III, Cl 2 19 74 Edition, W'75 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| VALVE | Borg Warner | 24678 | N/A | 3PSIAV404 | 1977 | Repaired | Yes |
| DISC/STUD ASSY | Borg Warner | RS214333 | N/A | 3PSIAV404 | 2001 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work REPLACE THE DISC/STUD ASSEMBLY TO REDUCE THE DISC TILT

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 2350651 replaced the disc and stud assembly to optimize valve performance.

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] ISI ENGINEER Date 2-23-01
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 1-31-01 to 2-23-01, 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] Commissions NB 9685 "S" "I" Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date FEBRUARY 23, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MCHNE02 2. Code Class ASME SEC III CL 2
3. Item Description LET DOWN HEAT EXCHANGER
4. N-5 Package Number 3CH13-1 5. W.O. Number 2351211
6. Original Construction Code Edition 1974 EDITION, 1975 WINTER ADDENDA
7. Original Installation Code Edition 1974 EDITION, 1975 WINTER ADDENDA
8. Work Description REPLACEMENT OF END BELL STUDS AND NUTS DUE TO SURFACE CORROSION FOUND ON SOME OF THEM.
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.
SURFACE CORROSION FOUND ON BOLTING DURING HEAT EXCHANGER INSPECTION REQUIRED CHANGING.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition SEC. III CL.2, '74 EDITION, '75W. ADD.
13. Repair/Replacement Activity Construction Code/Edition SEC. III CL.2, '74 EDITION, '75W. ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
JB 02/23/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
JB 02/23/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

JB 02/23/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

JB 02/23/01 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. |
|-----------|---------------|------------|----------|-----------------|
| 3MCHNE02 | APN# 43115017 | N/A | JNJ | 512092 & 512136 |
| 3MCHNE02 | APN# 43126001 | N/A | JUO | 512092 |
| | | | | |
| | | | | |
| | | | | |

19. Planner *James C. Boulanger* 02/23/01 Print Name JAMES BOULANGER
Signature Date

20. ISI Engineer *Wiley Ahlstrom* 02/23/01 Print Name WILEY AHLSTROM
Signature Date

21. ANII *Bob Hogstrom* 02/23/01 Print Name BOB HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/23/01
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 2351211
Address Work Order Number

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

4. Identification of System CH - CVCS, ASME SEC III CL 2

5. (a) Applicable Construction Code SEC.III CL.2 19 74 Edition, '75 W 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) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| END BELL STUDS | N/A | N/A | N/A | 3MCHNE02 | 2001 | Replacement | No |
| END BELL NUTS | N/A | N/A | N/A | 3MCHNE02 | 2001 | Replacement | No |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work During inspection of ht.exch. studs found to have surface corrosion and replaced

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

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

FORM NIS-2 (Back)

9. Remarks

WO# 2351211

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-ISE ENGINEER Date 2-25-01
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 2-23-01 to 2-25-01, 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.

[Signature] Commissions 03 4685 "N" "I" 42 264
Inspector's Signature National Board, State, Province, and Endorsements

Date FEBRUARY 25 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP
 4. N-5 Package Number 3RC02-6 5. W.O. Number W.O.#2352004
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE RCP KITTYBONE BOLTING FOUND GALLED AND WITH ROUNDED HEADS.

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.
KITTYBONE BOLTING REPLACEMENT IS REQUIRED TO ASSEMBLE REACTOR COOLANT PUMP. BEING REPLACE BECAUSE IT WAS GALLED.

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

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

16. ASME Section XI Pressure Test Required YES 2/27/01 NO
MBN 01/30/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 01/30/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 01/30/01 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. |
|-------------------------------|----------------|------------|----------|------------|
| RCP KITTYBONE BOLTING 7/8 DIA | SCM20-2.5X100S | N/A | 8653209 | 511350-1 |
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19. Planner *Michael B. Newell* 01/30/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer *Robert Browning* 01/30/01 Print Name ROBERT BROWNING
Signature Date
 21. ANII *Robert G. Hogstrom* 01/30/01 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 02/28/01
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 W.O.#2352004
Address Work Order Number

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

Authorization No. N/A

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

4. Identification of System RC, ASME SECTION III, CLASS 1

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|---------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RCP KITTYBONE | N/A | N/A | N/A | 3MRCEP01B | N/A | Replacement | No |
| BOLTS | | | | | | | |
| | | | | | | | |
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7. Description of Work REPLACE RCP KITTYBONE BOLTING.

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

Other Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks REPLACEMENT REQUIRED BECAUSE OF GALLING W.O.#2352004.

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] Date 2-28-01
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 1-30-01 to 2-28-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NS 9685 "B" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements
Date FEBRUARY 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEE04C&D (RCP 1B) 2. Code Class 1
 3. Item Description REACTOR COOLANT PUMP SEAL COOLER
 4. N-5 Package Number 3RC02-6 5. W.O. Number 2352005
 6. Original Construction Code Edition 1974 EDITION, NO ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description REPLACE COOLER DUE TO TUBING LEAK.

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.
ENG-DIDF WO #2351782.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION, NO ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, WINTER 1975 ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. YES NO
MBW 2-7-01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBW 2-7-01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBW 2-7-01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBW 2-7-01 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. |
|-------------|--------------|------------|----------|------------|
| 3MRCEE04C&D | 8000-300-004 | B003 | NA | |
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19. Planner Michael B. Newell 2-7-01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.P. Indap 2-7-01 Print Name R.P. INDAP
Signature Date
 21. ANII R.G. Hoostrom 2-7-01 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 02/07/01
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 W.O.#2352005
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH AZ 85354-7 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System (RC) REACTOR COOLANT SYSTEM.
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, NO 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| SEAL COOLER | CE | L-6943 | 23461 | 3MRCEE04C/D | 1984 | Replacement | Yes |
| | | | | | | | |
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7. Description of Work REPLACED SEAL COOLER ASSEMBLY (SUBCOMPONENT OF RCP).
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure 2250 psi Test Temp. 565 °F

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

FORM NIS-2 (Back)

9. Remarks W.O.#2352005 SEAL COOLER 3MRCEE04C/D

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 2-28-01
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 2-7-01 to 2-28-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions SB 9685 "S" "I" A2 264
Inspector's Signature National Board, State, Province, and Endorsements

Date FEBRUARY 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP.
 4. N-5 Package Number 3RC02-6 5. W.O. Number 2352005
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE SEAL HOUSING, ADAPTER SEAL HOUSING (TOP HAT), THRUST RING, AND III STAGE SEAL RETAINER.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
ABOVE ITEMS ARE BEING REPLACED FOR EASE OF INSTALLATION AND NO FAILURE INVOLVED PER DFWO#2371782.

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

15. Preservice Inspection Required. YES NO
MBN 02/28/01 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 02/28/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 02/28/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 02/28/01 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. |
|-------------------|---------------------|--------------|----------|----------------|
| SEAL HOUSING | 8000-300-001 | A005 | n/a | WO# PCWO756777 |
| ADAPTER SEAL HS | 8000-307-001C007CS7 | Q99-A861-SN7 | n/a | WO#861907 |
| III SEAL RETAINER | 1663741 | Q96-574-SN19 | n/a | WO#2351683 |
| (TOP HAT) STUDS | 8000-300-026 | SEE ATTACH | n/a | WO#736051 |
| (TOP HAT) NUTS | 8000-300-027 | SEE ATTACH | n/a | WO#736051 |
| | | | | |
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19. Planner Michael B. Newell 02/28/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer [Signature] 2/28/01 Print Name [Name]
Signature Date
 21. ANII [Signature] 2/28/01 Print Name R G HOUSTON
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/28/01
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 W.O.#2352005
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD TONOPAH ARIZONA Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|---------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| SEAL HOUSING | CE-KSB | A005 | N/A | 3MRCEP01B | 1984 | Replacement | Yes |
| ADAPTER SEAL HS | CE-KSB | Q99-A861-SN7 | N/A | 3MRCEP01B | 1984 | Replacement | Yes |
| III STAGE RETAINERS | Sulzer-Bingham | Q96-574-SN19 | N/A | 3MRCEP01B | 1984 | Replacement | Yes |
| (TOP HAT) BOLTS | CE-KSB | SEE ATTACH | N/A | 3MRCEP01B | 1984 | Replacement | No |
| (TOP HAT) NUTS | CE-KSB | SEE ATTACH | N/A | 3MRCEP01B | 1984 | Replacement | No |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REPLACEMENT OF SEAL HOUSING ASSEMBLY ON RCP 1B.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
- Other Pressure 2350 psi Test Temp. 565 °F

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

FORM NIS-2 (Back)

WO 2352005

9. Remarks ABOVE ITEMS ARE BEING REPLACE FOR EASE OF INSTALLATION AND NO FAILURE INVOLVED PER DFWO#2371782 AND 2352005. THRUST RING FROM PCWO#839215. III SEAL RETAINER IS FROM CMWO#2351683, ADAPTER SEAL HOUSING IS FABRICATED FROM WO#861907., SEAL HOUSING IS FROM PCWO#756777 AND TOP HAT STUDS AND NUTS IS FROM WO#736051.

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 2-28-01
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 1-30-01 to 2-28-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NS 9285 "D" "I" AZ 204
Inspector's Signature National Board, State, Province, and Endorsements

Date FEBRUARY 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSIBUV0618 2. Code Class 1
 3. Item Description SI LINE TO RC LOOP 2A DRAIN VALVE
 4. N-5 Package Number 3RC01-3 5. W.O. Number 2362234
 6. Original Construction Code Edition ASME SECT. III, CL 1 1974 EDITION S'75 ADD
 7. Original Installation Code Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 8. Work Description REPLACE THE PACKING LEAKOFF PIPING WITH A PIPE CAP AS REQUIRED BY 13-PN-204.

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.
Minor change due to new type of packing RPI 7/21/01

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 14. ASME Section XI Code/Edition ASME SECT. III, CL 1 1992 EDITION 92 ADD

15. Preservice Inspection Required. YES NO
JD 06/29/01 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 06/29/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

JD 06/29/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
JD 06/29/01 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. |
|------------|--------------|------------|---------------|---------------|
| <u>CAP</u> | <u>CPO.5</u> | <u>N/A</u> | <u>149ZNA</u> | <u>553102</u> |
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19. Planner [Signature] 6-29-01 Print Name JAMES I. DAVIS
Signature Date
 20. ISI Engineer [Signature] 7-2-01 Print Name R. P. INDAP
Signature Date
 21. ANII [Signature] 7-2-01 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 10-17-01
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 2362234
Address Work Order Number

3. Work Performed by Arizona Public Service 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 Safety Injection

5. (a) Applicable Construction Code ASME Sec III, Cl. 1, 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| VALVE | FISHER | 6540516 | 5083 | 3JSIBUV0618 | 1979 | Repaired | Yes |
| PIPE CAP | N/A | N/A | N/A | 3JSIBUV0618 | 2001 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work REPLACE THE VALVE LEAKOFF PIPING AS REQUIRED BY 13-PN-204

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 2362234 replaced the valve leakoff piping as required by PVNGS specification
13-PN-204

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]

ISI ENGINEER

Date 10-17-01

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 7-2-01 to 10-17-01, 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 4685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date OCTOBER 17, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JCHBUV0515 2. Code Class ASME SECT III CLASS 1
 3. Item Description 2" PLUG VALVE
 4. N-5 Package Number 3RC01-1 5. W.O. Number 2365426
 6. Original Construction Code Edition 1974 EDITION SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description DURING REPACK OF VALVE THE LEAK OFF LINE WILL BE PLUGGED WITH A CODE WELD.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO FLAW HAS BEEN DETECTED & NO FAILURE IS INVOLVED

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition SEC. III CL. 1/'74 ED. SUMMER '75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition SEC. III CL. 1/'74 ED. WINTER '75 ADD.
 14. ASME Section XI Code/Edition 1992 EDIITON, 1992 ADDENDA

15. Preservice Inspection Required. YES NO
 Initial JGB Date 10/05/20 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required YES NO
 Initial JGB Date 10/05/20 If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial JGB Date 10/05/20
 18. Include a step in the W.O. to record below all applicable numbers for repaired or replace³ *² items.
 Initial JGB Date 10/05/20

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|---------------|---------------|-----------------|----------|---------------|
| 3JCHBUV0515 | N/A | (VALVE) 6540521 | N/A | N/A |
| LEAK OFF PLUG | APN# 43550610 | N/A | 1492NA | 00583275-0001 |
| | | | | |
| | | | | |
| | | | | |

19. Planner JGBoulanger Signature 10/05/2001 Date Print Name JAMES G. BOULANGER
 20. ISI Engineer R-L-Browning Signature 10/5/01 Date Print Name R-L-BROWNING
 21. ANII Bob Hogstrom Signature 10-5-01 Date Print Name BOB HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/05/01
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 WO# 2365426
Address Repair Organization P.O. No., Job No., etc.
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 CH, Chemical Volume Control System, Sec III CL 1
5. (a) Applicable Construction Code Sec. III Cl 1 1974 Edition, '75 W 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) |
|--------------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| Seal leak off line plug. | N/A | N/A | N/A | 3JCHBUV0515 | 1979 | Replacement | No |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Repack of valve allowed for seal leak off line plug installation.
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 LEAK OFF LINE PLUG INSTALLED

WO# 2365426

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 10-5-01 to 10-13-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date OCTOBER 13, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSIEPSV0231 2. Code Class 2
 3. Item Description SIT 1A PRESSURE RELIEF VALVE
 4. N-5 Package Number 3SI02-3 5. W.O. Number 2374694
 6. Original Construction Code Edition ASME SECT. III, CL 2 1974 EDITION S'76 ADD
 7. Original Installation Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 8. Work Description REPLACE THE SPRING ADJUSTING BOLT DUE TO TO GALLING.

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.
New bolt to replace galled bolt.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 2 1974 EDITION ^{S, 76} 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. III, CL 1 1992 EDITION 92 ADD

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

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JD 10/19/01
Initial Date
 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
JD 10/19/01
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|----------------|----------|------------|----------|------------|
| ADJUSTING BOLT | N88753 | 73-0216 | N/A | MR 587965 |
| | | | | |
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| | | | | |

19. Planner [Signature] 10-19-01 Print Name JAMES I. DAVIS
Signature Date
 20. ISI Engineer [Signature] 10-19-01 Print Name R. P. INDAP
Signature Date
 21. ANII [Signature] 10-22-01 Print Name R/S 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 10/19/01
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 2374694
Address Work Order Number

3. Work Performed by Arizona Public Service 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 Safety Injection

5. (a) Applicable Construction Code ASME Sec III, CI 2 19 74 Edition, S'76 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 | CROSBY | N61182-00-0003 | N/A | 3JSIEPSV0231 | 1979 | Repaired | Yes |
| ADJUSTING BOLT | CROSBY | 73-0216 | NA | 3JSIEPSV0231 | 2001 | Replacement | No |
| | | | | | | | |
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7. Description of Work REPLACE THE SPRING ADJUSTING BOLT.

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 2374694 replaced the valve spring adjustment bolt due to galling in the bonnet.

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 NI

Certificate of Authorization No. 1A Expiration Date N/A

Signed RUB Robert Browning SI ENG 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 10-22-01 to 10-22-01, 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. A. Houston
Inspector's Signature

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

Date OCTOBER 22, 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 08/15/01
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 2374882
Address Work Order Number
3. Work Performed by Arizona Public Service Company, et al. Type Code Symbol Stamp None
Name Authorization No. N/A
P.O. Box 53999, Phoenix, Arizona 85072-2034 Expiration Date N/A
Address

4. Identification of System CH, Chemical Volume Control System ASME SEC. III CL 1
5. (a) Applicable Construction Code Section III, CL 1 1974 Edition, W'75 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| Check Valve | Borg Warner | 77811 | N/A | 3PCHNV868 | 1982 | Replaced | Yes |
| | | | | | | | |
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7. Description of Work Replaced the Body to Bonnet Seal Weld for IST inspection
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 N/A

WO# 2374882

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 10/9/01
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 8-1-01 to 10-9-01, 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 9 10 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3CH010H0AA 2. Code Class SECTION III Subsection NF Class 3
 3. Item Description 1/4 KIP SNUBBER
 4. N-5 Package Number 3CH14-3 5. W.O. Number 2375349
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Replace Snubber

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.
Snubber failed visual, Changed for precautionary measures. This is a like for like replacement

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

15. Preservice Inspection Required. YES NO
MBN 10-6-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBN 10-6-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 10-6-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBN 10-6-2001 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. |
|-------------|----------|------------|----------|------------|
| 3CH010H00AA | N/A | 35490 | N/A | N/A |
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19. Planner Michael Newell 10-6-2001 Print Name Michael Newell
Signature Date

20. ISI Engineer Wiley Ahlstrom 10-9-01 Print Name WILEY AHLSTROM
Signature Date

21. ANII Robert Hogstram 10-9-01 Print Name Robert Hogstram
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 10/06/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 1
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2375349
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date N/A
Address

4. Identification of System "CH" Charging

5. (a) Applicable Construction Code Subsect. NF Class 3 19 74 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 1/4 Kip Snubber | Pacific Scientific | 35490 | N/A | 3CH010H0AA | 1983 | Replacement | Yes |
| | | | | | | | |
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7. Description of Work Snubber Replacement (No Welding)

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

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

FORM NIS-2 (Back)

9. Remarks WO#2375349 Removed snubber Serial number 18138 and replaced it with serial number 35490

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Indap, ISE Engineer Date 10-26-01
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 10-2-01 to 10-26-01, 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. P. Indap Commissions NB 9685 "N" AZ-264
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 26, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3CH005H020 2. Code Class SECTION III Subsection NF Class 3
3. Item Description 3 KIP SNUBBER
4. N-5 Package Number 3CH15-4 5. W.O. Number 2375371
6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
8. Work Description Replace Snubber
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.
changed for precautionary measures. This is a like for like replacement
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. YES NO 10-8-01
If required, include a step in the W.O. to perform Preservice Inspection.
[Signature] 10-8-01
Initial Date
16. ASME Section XI Pressure Test Required YES NO
If required, include a step in the W.O. for ISI & ANII Inspection.
[Signature] 10-8-01
Initial Date
17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
[Signature] 10-8-01
Initial Date
18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
[Signature] 10-8-01
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------|----------|-----------------------------|----------|------------|
| 3CH005H020 | N/A | 3511 5511 MOD | N/A | N/A |
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19. Planner [Signature] 10-8-01 Print Name Michael Newell
Signature Date
20. ISI Engineer [Signature] 10-9-01 Print Name WILEY HULSTROM
Signature Date
21. ANII [Signature] 10-9-01 Print Name Robert Hogstram
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 10/08/01
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 2375371
Address Work Order Number

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

4. Identification of System "CH" Charging

5. (a) Applicable Construction Code NF Class 3 19 74 Edition, W '75 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|---------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 3 Kip Snubber | Pacific Scientific | 5511 | N/A | 3CH005H020 | 1978 | Replacement | Yes |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

7. Description of Work Snubber Replacement (No Welding)

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

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

FORM NIS-2 (Back)

9. Remarks WO#2375371 Removed snubber Serial number 27159 and replaced it with serial number 5511

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. ISE 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 10-9-01 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] Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 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 2390208
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 Perform half nozzle modification of the pressure sampling nozzle line 3PRECL049 located on the RCS Hot LEG and plugging of spare RTD's at locations of 3JRCETW111HD and 3JRCETW111HB.
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.
Modification work directed by engineering requirements specified in DMWO 2390196.
11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, CI 1, 1974 Ed. Summer 1974 Addenda
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

15. Preservice Inspection Required. YES NO
ML 8/29/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
ML 8/29/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- ML 8/29/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- ML 8/29/01 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. |
|------------------------|--------------|------------|----------|------------|
| 3PRCEL049 (Nozzle) | APN 43610094 | N/A | 131968 | 400804 |
| 3JRCETW111HD (PLUG) | APN 62036 | N/A | NX0911HK | 571227 |
| 3JRCETW111HB (PLUG) | APN 62036 | N/A | NX0911HK | 571227 |
| | | | | |

19. Planner Herbert L. Green 9/14/01 Print Name Herbert L. Green
Signature Date
20. ISI Engineer R.P. Indap 9/12/01 Print Name R.P. INDAP
Signature Date
21. ANII R.G. Hogstrom 9-14-01 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

1. Owner Arizona Public Service Company, et. al. Date 09/18/01

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

2. Plant Palo Verde Nuclear Generating Station Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2390208
Name
Address Work Order Number

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

P.O. Box 53999, Phoenix, Arizona 85072-7529 Authorization No. N/A
Name 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, 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) |
|---------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RC Hot Leg #1 | Combustion Eng. | 771-301 | N/A | 3PRCEL032 | 1982 | Repaired | Yes |
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7. Description of Work Perfrom ASME Sec. III, Class 1 welds for DMWO 2390196 nozzle modification

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 Perform half nozzle modification of the pressure sampling nozzle line 2PRCEL049 located on the RCS Hot Leg and plugging of spare RTD's at locations of 3JRCETW111HD and 3JRCETW111HB.

W.O. 2390208

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.P. Dap* ISI Engineer Date 10-23-2001
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 9-14-01 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.

R. A. Johnson
Inspector's Signature

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

Date OCTOBER 23, 2001

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 2390209
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 Perform Half Nozzle modifications to pressure measurement line 3PRCCL053 AND 3PRCAL055.. Modification of spare RTD's 3JRCETW111HA and 3JRCETW111HC by plugging per the requirements of DMWO 2390196.
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.
Modification work directed by engineering requirements specified in DMWO 2390196.
11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, CI 1, 1974 Ed. Summer 1974 Addenda
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

15. Preservice Inspection Required. YES NO
HL 8/22/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
HL 8/22/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

HL 8/22/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

HL 8/22/01 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. |
|------------------------|--------------|------------|----------|------------|
| 3PRCCL053 (Nozzle) | APN 43610094 | N/A | 131968 | 400804 |
| 3PRCAL055 (Nozzle) | APN 43610094 | N/A | 131968 | 400804 |
| 3JRCETW111HA (PLUG) | APN 62036 | N/A | NX0911HK | 571227 |
| 3JRCETW111HC (PLUG) | APN 62036 | N/A | NX0911HK | 571227 |
| | | | | |
| | | | | |

19. Planner Herbert L. Green 8/22/01 Print Name Herbert L. Green
Signature Date
20. ISI Engineer R. P. Indap 9/12/01 Print Name R. P. INDAP
Signature Date
21. ANII R.G. Holstrom 9-14-01 Print Name R.G. HOLSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/18/01
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 2390209
Address Work Order Number

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

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

5. (a) Applicable Construction Code ASME Sec. 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) |
|---------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RC Hot Leg #1 | Combustion Eng. | 771-301 | N/A | 3PRCEL032 | 1982 | Repaired | Yes |
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7. Description of Work Perfrom ASME Sec. III, Class 1 welds for DMWO 2390196 nozzle modification

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 Perform half nozzle modifications of the pressure measurement nozzles located on the RCS Hot Leg upstream of root valves 3PRCAV277 and 3PRCCV273 and plugging of spare RTD's at locations of 3JRCETW111HA and 3JRCETW111HC.

w.o. 2390209

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. J. Forday, ISI Engineer Date 10-23-2001
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 9-14-01 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.

R. J. Forday
Inspector's Signature

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

Date OCTOBER 23, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEL063 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 2390212
6. Original Construction Code Edition ASME SECTION III, CLASS 1, 1974 EDITION SUMMER 1974 ADDENDA
7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974 EDITION WINTER 1975 ADDENDA
8. Work Description Perform modifications of spare RTD's 3JRCETW121HD and 3JRCETW121HB by plugging per the requirements of DMWO 2390196
-
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.
Modification work directed by engineering requirements specified in DMWO 2390196
-
11. Repair/Replacement Work Organization Arizona Public Service Co.
12. Replacement Item Construction or reconciled Code/Edition ASME III, Class 1 1974 Edition Summer '74 Addenda
13. Repair/Replacement Activity Construction Code/Edition ASME III, Class 1 1974 Edition Winter '75 Addenda
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. YES NO.
ASL 09/18/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO.
ASL 09/18/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

ASL 09/18/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

ASL 09/18/01 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. |
|------------------------|-----------|------------|----------|-------------|
| 3JRCETW121HD (PLUG) | APN 62036 | N/A | NX0911HK | 571236-0001 |
| 3JRCETW121HB (PLUG) | APN 62036 | N/A | NX0911HK | 571236-0001 |
| | | | | |
| | | | | |
| | | | | |

19. Planner Glenn E. Moore 09/18/01 Print Name Glenn E. Moore
Signature Date

20. ISI Engineer Ramakant P. Indap 09/18/01 Print Name Ramakant P. Indap
Signature Date

21. ANII Robert G. Hogstrom 09/18/01 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 09/18/01
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 2390212
Address Work Order Number

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

4. Identification of System Reactor Coolant System, Line number 3PRCEL063, Spool 001

5. (a) Applicable Construction Code ASME Sec. 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) |
|---------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RC Hot Leg #2 | Combustion Eng. | 771-501 | N/A | 3PRCEL063 | 1982 | Repaired | Yes. |
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7. Description of Work Perform ASME Sec. III, Class 1 welds for DMWO 2390196 nozzle modification

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 Plug spare RTD nozzles located on the RCS Hot Leg at locations of 3JRCETW121HD and 3JRCETW121HB.

W.O. 2390212

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. Fordap, ISI Engineer Date 10-23-2001
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 9-18-01 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.

R. L. Fordap
Inspector's Signature

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

Date OCTOBER 23 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEL063 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 2390215
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 Perform Half Nozzle modifications to pressure measurement line 3PRCCL065 AND 3PRCAL066.. Modification of spare RTD's 3JRCETW121HA and 3JRCETW121HC by plugging per the requirements of DMWO 2390196.

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.
Modification work directed by engineering requirements specified in DMWO 2390196.

11. Repair/Replacement Work Organization Arizona Public Service

12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, Cl 1, 1974 Ed. Summer 1974 Addenda

13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Cl 1, 1974 Ed., Winter 1975 Addenda

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

15. Preservice Inspection Required. YES NO
Initial 8/25/01 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required YES NO
Initial 8/25/01 Date If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 8/25/01 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 8/25/01 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. |
|------------------------|--------------|------------|----------|------------|
| 3PRCCL065 (Nozzle) | APN 43610094 | N/A | 131968 | 400804 |
| 3PRCAL066 (Nozzle) | APN 43610094 | N/A | 131968 | 400804 |
| 3JRCETW121HA (PLUG) | APN 62036 | N/A | NX0911HK | 571212 |
| 3JRCETW121HC (PLUG) | APN 62036 | N/A | NX0911HK | 571212 |
| | | | | |

19. Planner Herbert L. Green Signature 8/25/01 Date Print Name Herbert L. Green

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

21. ANII R.G. Houston Signature 9-14-01 Date Print Name R.G. HOUSTON

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 09/18/01
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 2390215
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 3PRCEL063, Spool 001

5. (a) Applicable Construction Code ASME Sec. 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) |
|---------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RC Hot Leg #2 | Combustion Eng. | 771-501 | N/A | 3PRCEL063 | 1982 | Repaired | Yes |
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7. Description of Work Perform ASME Sec. III, Class 1 welds for DMWO 2390196 nozzle modification

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 Perform half nozzle modification of the pressure measurement nozzles located on the RCS Hot Leg upstream of root valves 3PRCAV285 and 3PRCCV281, and plugging of spare RTD's at locations of 3JRCETW121HA and 3JRCETW121HC.

W.O. 2390215

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] ISI ENGINEER Date 10-23-2001
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 9-14-01 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

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01D 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 3RC02-6 5. W.O. Number 2393756
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description MODIFY ADAPTER SEAL HOUSING BY WELDING AND MACHINING AS DEFINED AND DISCUSSED IN DFWO#859860 AND CRDR 380359.

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.
N.A. (MODIFICATION AND REPLACEMENT IS NOT DUE TO FAILURE OF PRESSURE RETAINING BOUNDARY).

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

15. Preservice Inspection Required. YES NO
 If required, include a step in the W.O. to perform Preservice Inspection.
MSW 06/13/01
Initial Date

16. ASME Section XI Pressure Test Required YES NO
 If required, include a step in the W.O. for ISI & ANII Inspection.
MSW 06/13/01
Initial Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MSW 06/13/01
Initial Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
MSW 06/13/01
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------------|--------------|------------|----------|------------|
| ADAPTER SEAL HS. | 8000-307-001 | C001 | N/A | N/A |
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19. Planner Michael B. Newell 6-13-01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer Alan Morrow 6-14-01 Print Name Alan Morrow
Signature Date
 21. ANII Robert Hogstrom 6-14-01 Print Name ROBERT HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 06/13/01
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 W.O.2393756
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH ARIZONA Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME SECTION III, CLASS 1
5. (a) Applicable Construction Code SEC III, CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| ADAPTER SEAL | SULZERBINGHAM | SN-C001 | N/A | 3MRCEP01D | 1984 | Repaired | No |
| HOUSING | | | | | | | |
| | | | | | | | |
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7. Description of Work MODIFY ADAPTER SEAL HOUSING BY WELDING AND MACHINING.
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1
 Other Pressure 3125+50/- psi Test Temp. 60 - 90 °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. 2393756 3MRCEP01D MODIFY ADAPTER SEAL HOUSING (TOP HAT) BY WELDING AND MACHINING.

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] ISI Engineer Date 10-29-2001
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 6-14-01 to 10-29-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 29, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01D 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ~~2A~~ 2B ~~4B~~ 8-9-01
 4. N-5 Package Number 3RC02-6 5. W.O. Number W.O.2393758
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE SEAL HOUSING ADAPTER (TOP HAT) THAT WAS MODIFY BY WELDING/MACHINING UNDER WO#2393758. 10-29-01

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.
N.A. (MODIFICATION AND REPLACEMENT IS NOT DUE TO FAILURE OF PRESSURE RETAINING BOUNDARY).

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

15. Preservice Inspection Required. YES NO
MSW 08/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MSW 08/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MSW 08/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MSW 08/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|--------------|------------|----------|------------|
| 3MRCEP01D | 8000-307-001 | C001 | | N/A |
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19. Planner Michael B. Newell 8-5-01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.L. Brooking 8/9/01 Print Name R.L. BROOKING
Signature Date
 21. ANII R.G. Hogstrom 8-9-01 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 08/05/01
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 W.O.2393758
Address Work Order Number

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

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| ADAPTER SEAL | SULZERBINGHAM | SN-C001 | N/A | 3MRCEP01D | 1984 | Repaired | Yes |
| HOUSING | | | | | | | |
| | | | | | | | |
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7. Description of Work MODIFY ADAPTER SEAL HOUSING BY WELDING AND MACHINING.

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

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

FORM NIS-2 (Back)

9. Remarks W.O.2393758 ADAPTER SEAL HOUSING (TOP HAT) 3MRCEP01D.

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 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 8-9-01 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.

RS System
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0200 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2393984
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE AND TRIM WELD PIPE NIPPLE TO PIPE CAP PER WORK ORDER
2393984. RLB 11/26/01 by u-2-01

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS08615, REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 06/25/01 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 06/25/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 06/25/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 06/25/01 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. |
|---------------------|-------------------------|----------------|----------------|---|
| 3JRCEPSV0200 | APN#45003560 | BS08615 | N/A | 587750 |
| PIPE CAP | APN#43550865 | N/A | N/A | N/A RLB 11/26/01 by 11-2-01 |
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19. Planner Michael B. Newell 06/25/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 6-28-01 Print Name R. P. INDAP
Signature Date
 21. ANII R. G. Hogstrom 6-28-01 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 10/30/01
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 2393984
Address Work Order Number

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

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 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) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PRESSURIZER PSV | DRESSER | BS08615 | N/A | 3JRCEPSV200 | 1981 | Replacement | Yes |
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7. Description of Work REPLACED 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 W.O. 2393984. VALVE IS BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS SERIAL NUMBER BS08615.

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 Eng.
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 6-28-01 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. D. Johnson
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0201 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2393997
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE AND TRIM/WELD PIPE NIPPLE TO PIPE CAP PER WORK ORDER-
2393997.. RLB 11-2-01

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS08591, REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 06/25/01 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 06/25/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 06/25/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 06/25/01 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. |
|--------------|--------------|------------------------|----------|------------|
| 3JRCEPSV0201 | APN#45003560 | BS08591 | N/A | 587753 |
| PIPE CAP | APN#43550865 | N/A <u>RLB 11-2-01</u> | | |
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19. Planner Michael B. Newell 06/25/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. G. Hogstrom 6-28-01 Print Name R. G. Hogstrom
Signature Date
 21. ANII R. G. Hogstrom 6-28-01 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 10/30/01
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 2393997
Address Work Order Number

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

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 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) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PRESSURIZER PSV | DRESSER | BS08591 | N/A | 3JRCEPSV201 | 1979 | Replacement | Yes |
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7. Description of Work REPLACED 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 W.O. 2393997. VALVE IS BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS SERIAL NUMBER BS08591.

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. Brocewicz R.L.B. 151 ENG 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 6-28-01 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. Brocewicz
Inspector's Signature

Commissions NB 2685 "2" "1" Az. 264
National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0202 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2393998
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE AND TRIM/WELD PIPE NIPPLE TO PIPE CAP PER WORK ORDER
2393998. Rep. 11-2-01

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS08617, REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 06/25/01 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 06/25/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 06/25/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 06/25/01 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. |
|--------------|--------------|------------|----------------|---------------|
| 3JRCEPSV0202 | APN#45003560 | BS08617 | N/A | <u>S87754</u> |
| PIPE CAP | APN#43550865 | N/A | <u>11-2-01</u> | |
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19. Planner *Michael B. Newell* 06/25/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer *R.P. Indap* 6-28-01 Print Name R. P. INDAP
Signature Date
 21. ANII *R.G. Hogstrom* 6-28-01 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 10/30/01
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 2393998
Address Work Order Number

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

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 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) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PRESSURIZER PSV | DRESSER | BS08617 | N/A | 3JRCEPSV202 | 1981 | Replacement | Yes |
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7. Description of Work REPLACED 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 W.O. 2393998. VALVE IS BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS SERIAL NUMBER BS08617.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed RL BACCHINI RLB ISI ENG 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 6-28-01 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.

RL BACCHINI Commissions NB 9685 "N" "I" Az-264
Inspector's Signature National Board, State, Province, and Endorsements
Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2394003
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE AND TRIM/WELD PIPE NIPPLE TO PIPE CAP PER WORK ORDER
~~2394003~~ RLB "6/01 by u-2-01

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS08593, REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBN 06/25/01 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 06/25/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 06/25/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 06/25/01 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. |
|--------------|--------------|--------------------------------|----------|------------|
| 3JRCEPSV0203 | APN#45003560 | BS08593 | N/A | 587755 |
| -PIPE CAP | APN#43550865 | N/A <u>RLB "6/01 by u-2-01</u> | | |
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19. Planner Michael B. Newell 06/25/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 6-28-01 Print Name R. P. INDAP
Signature Date
 21. ANII R.G. Hostron 6-28-01 Print Name R.G. Hostron
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 10/30/01
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 2394003
Address Work Order Number

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

Authorization No. N/A

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

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 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) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PRESSURIZER PSV | DRESSER | BS08593 | N/A | 3JRCEPSV203 | 1979 | Replacement | Yes |
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7. Description of Work REPLACED 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 W.O. 2394003. VALVE IS BEING ROTATED TO FACILITATE TESTING. THE
REPLACEMENT VALVE IS SERIAL NUMBER BS08593

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed RL BROCKWICK RLB ISI ENG 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 6-28-01 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.

Paul D. Frythorn
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS 08629 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
4. N-5 Package Number 3SG02-2 5. W.O. Number 2394106
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition. ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 08/27/01 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. |
|---------------|----------|--|----------|--------------|
| S/N - BS08629 | | | | |
| DISC | | <small>from by 20-10-01</small> AB609 ADG09 | 68787 | PL # 0506998 |
| | | | | |
| | | | | |
| | | | | |

19. Planner David M. Goodlet 8-28-01 Print Name David Goodlet
Signature Date
20. ISI Engineer Ramakant Indap 8-28-01 Print Name Ramakant Indap
Signature Date
21. ANII Robert Hogstrom 8-28-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/27/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit N/A
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394106
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
Address Authorization No. N/A
 Expiration Date N/A

4. Identification of System SG - MAIN STEAM

5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, S'75 Addenda, 1711 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| DISC | DRESSER | ADG09 | N/A | N/A | 2001 | Replacement | No |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Overhaul of spare Main Steam safety valve S/N BS-08629

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 #2394106 for disassembly, inspection and reconditioning of spare Main Steam safety valve. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed based upon inspection. These parts will be obtained from other spare valves or from approved purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R Phindap, Consulting Metallurgical Engineer Date 10-18-01
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 8-28-01 to 10-18-01, 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 Phindap Commissions NB 2685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 18, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS 08636 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
4. N-5 Package Number 3SG01-2 5. W.O. Number 2394106
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
DMG 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 08/27/01 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. |
|-----------------|--|------------|----------|--------------------------|
| S/N - BS08636 | | | | |
| DISC | AASF ^{AB} _{10/1/01} | AAS AD908 | 68787 | PL# 0506998 |
| SPINDLE | | | 91299 | REMOVED FROM BS-08610 |
| SPRING & WASHER | | AAC 89 | | REMOVED FROM BS-08587 |

19. Planner *David Goodlet* 8-28-01 Print Name David Goodlet
Signature Date
20. ISI Engineer *Ramakant Indap* 8-28-01 Print Name Ramakant Indap
Signature Date
21. ANII *Robert Hogstrom* 8-28-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/27/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit N/A
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394106
Address Work Order Number
3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System SG - MAIN STEAM
5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, S'75 Addenda, 1711 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| DISC | DRESSER | ADG08 | N/A | | 2001 | Replacement | No |
| SPINDLE | DRESSER | N/A | N/A | HT-G1299 | 2001 | Replacement | No |
| | | | | Removed from | | | |
| | | | | BS-08610 | | | |
| Spring & Washers | DRESSER | AAC89 | N/A | Removed from | 2001 | Replacement | No |
| | | | | BS-08587 | | | |
| | | | | | | | |

7. Description of Work Overhaul of spare Main Steam safety valve BS-08636.

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 #2394106 for disassembly, inspection and reconditioning of spare Main Steam safety valve. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed based upon inspection. These parts will be obtained from other spare valves or from approved purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Inda, Consulting Metallurgical Engineer Date 10-18-01
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 8-28-01 to 10-18-01, 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. P. Inda Commissions NB 9685 "N" "I" Az. 264
(Inspector's Signature) National Board, State, Province, and Endorsements

Date OCTOBER 18, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BT 01675 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1250 PSIG
 4. N-5 Package Number _____ 5. W.O. Number 2394106
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

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

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

15. Preservice Inspection Required. YES NO
DMG 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 08/27/01 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. |
|----------------|----------|------------|----------|-------------|
| S/N - BT 01675 | | | | |
| DISC | | ADG10 | | PL# 0506998 |
| | | | | |
| | | | | |
| | | | | |

19. Planner *David Goodlet* 8-28-01 Print Name David Goodlet
Signature Date
 20. ISI Engineer *Ramakant Indap* 8-28-01 Print Name Ramakant Indap
Signature Date
 21. ANII *Robert Hogstrom* 8-28-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/27/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit N/A
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394106
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
Address Authorization No. N/A
 Expiration Date N/A

4. Identification of System SG - MAIN STEAM

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| DISC | DRESSER | ADG010 | N/A | N/A | 2001 | Replacement | No |
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7. Description of Work Overhaul of spare Main Steam safety valve S/N BT01675

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 #2394106 for disassembly, inspection and reconditioning of spare Main Steam safety valve. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed based upon inspection. These parts will be obtained from other spare valves or from approved purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Prud'homme, Consulting Metallurgical Engineer Date 10-18-01
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 8-28-01 to 10-18-01, 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. P. Prud'homme
Inspector's Signature

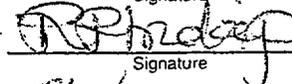
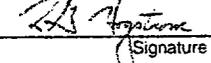
Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 18, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BY 14540 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1290 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2394106
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. YES NO
DMG 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required YES NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII inspection.
Initial Date
- DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 08/27/01 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. |
|----------------|----------|---|----------|---------------|
| S/N - BY 14540 | | | | |
| DISC | | AD907 | | PL # 0506998 |
| SANDLE | | A19374 AB ^{10/1/01} | A19374 | PO # 33207018 |
| | | | | |

19. Planner  8-28-01 Print Name David Goodlet
Signature Date
20. ISI Engineer  8-28-01 Print Name Ramakant Indap
Signature Date
21. ANII  8-28-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/27/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit N/A
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394106
Address Work Order Number
3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System SG - MAIN STEAM
5. (a) Applicable Construction Code ASME III CLASS 2 19.74 Edition, S'75 Addenda, 1711 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| DISC | DRESSER | ADG07 | N/A | N/A | 2001 | Replacement | No |
| SPINDLE | DRESSER | N/A | N/A | HT: A19374 | 2001 | Replacement | No |
| | | | | | | | |
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7. Description of Work Overhaul of spare Main Steam safety valve S/N BY-14540
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 #2394106 for disassembly, inspection and reconditioning of spare Main Steam safety valve. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed based upon inspection. These parts will be obtained from other spare valves or from approved purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Pindap, Consulting Metallurgical Engineer Date 10-18-01
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 8-28-01 to 10-18-01, 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. P. Pindap
Inspector's Signature

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

Date OCTOBER 18, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2394112
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description OFF-SITE VENDOR TESTING AND REWORK PER WORK ORDER 2394112.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS-08593. REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization NWS TECHNOLOGY
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. YES NO
MBS 08/28/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBS 08/28/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBS 08/28/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBS 08/28/01 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. |
|--------------|----------|------------|----------|------------|
| 3JRCEPSV0203 | NIA | BS-08593 | | |
| NOZZLE | NA | ABC-62 | | 903645076 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner Michael B. Newell 8-28-01 Print Name MICHAEL B. NEWELL
Signature Date

20. ISI Engineer R.P. Indap 8/28/01 Print Name R.P. INDAP
Signature Date

21. ANII R.G. Hogstrom 8-28-01 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 08/28/01
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 2394112
Address Work Order Number

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

4. Identification of System RC

5. (a) Applicable Construction Code ASME III Class 1 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV | Dresser | BS08593 | N/A | 3JRCEPSV203 | 1978 | Repaired | Yes |
| Nozzle | Dresser | ABC-62 | N/A | 3JRCEPSV203 | 2001 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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7. Description of Work Off-site vendor testing.

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

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

FORM NIS-2 (Back)

9. Remarks W.O. 2394112

Valve sent to vendor for off-site testing. Replaced nozzle.

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. Fordap, ISI Engineer Date 10-29-2001
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 8-28-01 to 10-29-01, 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. A. Fordap
Inspector's Signature

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

Date October 29, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP 1B
 4. N-5 Package Number 3RC02-6 5. W.O. Number W.O.2394135
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REWORK SEAL HOUSING ADAPTER (TOP HAT) LOWER LIP DUE TO O-RING LEAKAGE. (Machine to obtain better fit) RPE 7/10/01

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.
ENG-DIDF WO#2351782. Minor machining to stop leakage. No failure. structural
SRP 7/10/01

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

15. Preservice Inspection Required. YES NO
MBW 07/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
MBW 07/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBW 07/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBW 07/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|--------------|---------------|----------|------------|
| 3MRCEP01B | 8000-307-001 | 095-1956 C011 | | N/A |
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19. Planner Michael B. Newell 07/05/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.P. Indap 7/10/01 Print Name R.P. INDAP
Signature Date
 21. ANII R.G. Hogstrom 7-10-01 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 07/05/01
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 W.O.2394135
Address Work Order Number

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

4. Identification of System REACTOR COOLANT SYSTEM (RC)

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| ADAPTER SEAL | CE | CO11 | N/A | 3MRCEP01B | 1984 | Repaired | Yes |
| HOUSING | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work MACHINE SEAL HOUSING ADAPTER (TOP HAT) LOWER LIP.

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#2394135 ADAPTER SEAL HOUSING (TOP HAT) 3MRCEP01B.

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 RL BROWNING RLB ISI ENR 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 7-10-01 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.

RL Browning
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JCHNUV0501 2. Code Class SEC III CL 2
 3. Item Description 4" GATE VALVE
 4. N-5 Package Number 3CH03-3 5. W.O. Number 2400874
 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 10 BONNET STUDS AND 20 NUTS DUE TO SURFACE CORROSION APPEARING ON THEM. FOUND DURING REPACK /BODY TO BONNET CORRECTIVE MAINTENANCE WORK ORDER.

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.
Corroded bolts (studs) are low alloy steel and then nickel plated to resist borated water attack. The replacement bolts are nickel plated and provide long corrosion resistance. The nuts are 316SS and being replaced for added assurance. RPR
Feb 10/10/01 10-9-01

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition SECTION III, CL 2 '74ED.'75 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition SECTION III, CL 2 '74ED.'75 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
 _____ 10/09/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required YES NO
 _____ 10/09/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
 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. |
|---|---------------------|---|--|------------|
| 3JCHEUV0501 | | N/A | | MR# 584229 |
| BOLTS & NUTS STUDS RPR 10-9-01 | <i>Feb 10/10/01</i> | <i>3P80</i> <i>4684</i> <i>3W67</i> | <i>NOT REPLACED</i> <i>3P80 (2)</i> <i>4684 (3)</i> <i>3W67 (5)</i> | |
| | | | | |
| | | | | |

19. Planner *J. Boulangier* 10/09/01 Print Name JAMES G. BOULANGER
Signature Date
 20. ISI Engineer *R.P. Indap* 10-9-01 Print Name R.P. INDAP
Signature Date
 21. ANII *R. Hogstrom* 10-9-01 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JCHNUV0501 2. Code Class SEC III CL 2
 3. Item Description 4" GATE VALVE
 4. N-5 Package Number 3CH03-3 5. W.O. Number 2400874
 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 10 BONNET STUDS DUE TO SURFACE CORROSION APPEARING ON THEM. FOUND DURING REPACK /BODY TO BONNET CORRECTIVE MAINTENANCE WORK ORDER.
 9. ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

 11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition SECTION III, CL 2 /'74ED.'75 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition SECTION III, CL 2 /'74ED.'75 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. YES NO
 If required, include a step in the W.O. to perform Preservice Inspection.
ALB 10/10/01
Initial Date
 16. ASME Section XI Pressure Test Required YES NO
 If required, include a step in the W.O. for ISI & ANII Inspection.
ALB 10/10/01
Initial Date
ALB 10/10/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
ALB 10/10/01 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. |
|-----------------|----------|------------|--------------|------------|
| 10 BONNET STUDS | | N/A | 3P80 (2 EA.) | MR# 584229 |
| | | | 4G84 (3EA.) | " |
| | | | 3W67 (5 EA.) | " |
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19. Planner J. Boulangier 10/09/01 Print Name JAMES G. BOULANGER
Signature Date
 20. ISI Engineer Alan Morrow 10/13/01 Print Name Alan Morrow
Signature Date
 21. ANII R. Hogstrom 10-13-01 Print Name ROBERT HOGSTROM
Signature Date

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

1. Owner Arizona Public Service Company, et. al. Date 10/09/01
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 2400874
Address Work Order Number
3. Work Performed by Arizona Public Service Company, et. al. 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 CVCS - CH - Sec. III Cl. 2 - Chemical & Volume Control System
5. (a) Applicable Construction Code Section III Cl.2 19 74 Edition, W'75 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) |
|-----------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 4"gt vlv bonnet bolts | N/A | N/A | N/A | 3JCHNUV0501 | 2001 | Replacement | No |
| | | | | | | | |
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| | | | | | | | |
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| | | | | | | | |

7. Description of Work Disassembled to correct bonnet leak and repack valve-replaced 10 bonnet studs
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 N/A WO# 22400874

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 ENG. 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 10-9-01 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.


Inspector's Signature

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

Date OCTOBER 13, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSGEPSV0560 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1290 PSIG
 4. N-5 Package Number 3SG02-2 5. W.O. Number 2409610
 6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

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

15. Preservice Inspection Required. YES NO
DMG 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 08/27/01 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. |
|--------------|----------|------------|----------|--------------|
| 3JSGEPSV0560 | N/A | BY-14540 | N/A | 0584542-0001 |
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19. Planner *David Goodlet* 8-27-01 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer *Ramakant Indap* 8-28-01 Print Name RAMAKANT INDAP
Signature Date
 21. ANII *Robert Hogstrom* 8-28-01 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSGEPSV0561 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1250 PSIG
 4. N-5 Package Number 3SG02-2 5. W.O. Number 2409610
 6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

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

15. Preservice Inspection Required. YES NO
DMG 10/02/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 10/02/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 10/02/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 10/02/01 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/RS NO. |
|--------------|----------|------------|----------|---------------|
| 3JSGEPSV0561 | N/A | BT-01675 | N/A | 00584543-0001 |
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19. Planner *David Goodlet* 10-2-01 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer *Ramakant Indap* 10-2-01 Print Name RAMAKANT INDAP
Signature Date
 21. ANII *Robert Hogstrom* 10-4-01 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSGEPSV0575 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
 4. N-5 Package Number 3SG01-2 5. W.O. Number 2409610
 6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization APS

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

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

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

15. Preservice Inspection Required. YES NO
DMG 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 08/27/01 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. |
|--------------|----------|------------|----------|---------------|
| 3JSGEPSV0575 | N/A | BS-08636 | N/A | 00584961-0001 |
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19. Planner *David Goodlet* 8-27-01 Print Name DAVID GOODLET
Signature Date

20. ISI Engineer *Ramakant Indap* 8-28-01 Print Name RAMAKANT INDAP
Signature Date

21. ANII *Robert Hogstrom* 8-28-01 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSGEPSV0695 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
 4. N-5 Package Number 3SG02-2 5. W.O. Number 2409610
 6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

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

15. Preservice Inspection Required. YES NO
DMG 10/02/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required YES NO
DMG 10/02/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 10/02/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 10/02/01 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/RES NO. |
|--------------|----------|------------|----------|----------------|
| 3JSGEPSV0695 | N/A | BS-08629 | N/A | 00 584962-1001 |
| | | | | |
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19. Planner *David Goodlet* 10-2-01 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer *Ramakant Indap* 10-2-01 Print Name RAMAKANT INDAP
Signature Date
 21. ANII *Robert Hogstrom* 10-4-01 Print Name ROBERT HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/02/01
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 2409610
Address Work Order Number

3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp None
Name

Authorization No. N/A

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

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Safety Valve | Dresser | BS-08636 | N/A | 3JSGEPSV575 | 1981 | Replacement | Yes |
| Safety Valve | Dresser | BS-08629 | N/A | 3JSGEPSV695 | 1981 | Replacement | Yes |
| Safety Valve | Dresser | BY-14540 | N/A | 3JSGEPSV560 | 1991 | Replacement | Yes |
| Safety Valve | Dresser | BT-01675 | N/A | 3JSGEPSV561 | 1979 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replace main steam safety valves with reconditioned spares.

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 #2409610 for the replacement of main steam safety valves 3JSGEPSV0560, 695, 575 & 561. These four valves were selected by maintenance engineering following on-line set pressure testing.

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 10-4-01 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 NB 9685 "N" "I" A2 264
National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEV334 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description Reactor Coolant System, line 3PRCEL060, drain valve 3PRCEV334
 4. N-5 Package Number 3RC01-2 5. W.O. Number 2413348
 6. Original Construction Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADDENDA
 8. Work Description Replace valve 3PRCEV334 with a refurbished spare valve (1PRCEV216) in accordance with DFWO 2413346. Valve was refurbished by work order 2413347. This valve is being installed in accordance with work order number 2413348.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
The valve is being replaced because it is leaking by the seat. There is no failure in the ASME pressure boundary.

11. Repair/Replacement Work Organization Arizona Public Service
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, CI 1, 1974 Ed. Winter 1975 Addenda
 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

15. Preservice Inspection Required. YES NO *R. BROWN 151206 10/4/01 by inspector*
 Initial [Signature] Date 10/3/01 If required, include a step in the W.O. to perform Preservice inspection.

16. ASME Section XI Pressure Test Required YES NO
 Initial [Signature] Date 10/3/01 If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial [Signature] Date 10/3/01
 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
 Initial [Signature] Date 10/3/01

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|------------|----------|--------------|
| 3PRCEV334 | N/A | 31640 | N/A | DFWO 2413346 |
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19. Planner [Signature] 10/03/01 Date Print Name Herbert L. Green
 20. ISI Engineer [Signature] 10-3-01 Date Print Name R. P. INDAP
 21. ANII [Signature] 10-4-01 Date Print Name R. G. HOUSTON

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 10/03/01
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 2413348
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, Az. 85354 Expiration Date N/A
Address

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME III Class 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | 31640 | N/A | 3PRCEV334 | 1978 | Replacement | Yes |
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7. Description of Work Replace valve 3PRCEV334 with a refurbished spare IAW DFWO 2413346

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 Replace valve 3PRCEV334 with a refurbished spare valve (1PRCEV216) in accordance with DFWO 2413346. Valve was refurbished by work order 2413347. This valve is being installed in accordance with work order number 2413348.

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. PROCOVING [Signature] ISI ENG 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 10-4-01 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 4685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

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 2413887
 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 HOT LEG TUBES PER
ENGINEERING DFWO 2406659 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 2406659.

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 |
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19. Planner Michael B. Newell 8-23-01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer Ramakant P. Indap 8-24-01 Print Name RAMAKANT P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 8-24-01 Print Name ROBERT G. HOGSTROM
Signature Date