



Palo Verde Nuclear
Generating Station

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February 1, 2001

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)
Unit 2
Docket No. STN 50-529
Unit 2 Second 10-Year Interval – Ninth Refueling Outage (U2R9)
Inservice Inspection (ISI) Summary Report**

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 2 Inservice Inspection Report for the ninth refueling outage, enclosed. This refueling outage was conducted between October 4, 2000 and November 6, 2000.

During the required inservice inspection (ISI) examinations, a pressurizer heater nozzle leak was identified. In addition, a leak was found on a sample line nozzle on steam generator number 1. The necessary repairs were performed and these findings along with other discrepant findings are documented in Section 7 (Repair & Replacement) of the enclosed report. Various other non-rejectable indications were detected during the course of ISI examinations, the records of which are maintained on file.

No commitments are being made to the NRC by this letter.

Should you have any questions, please contact Scott A. Bauer at (623) 393-5978.

Sincerely,

for.

C. DAVID MAULDIN

VICE PRESIDENT - NUCLEAR ENGINEERING
AND SUPPORT

CDM/AKK/RKB/kg

Enclosure

cc: E. W. Merschhoff [Region IV Administrator]
J. N. Donohew [NRR Project Manager]
J. H. Moorman [Sr. Resident Inspector]

AD47

ENCLOSURE

SECOND 10-YEAR ISI INTERVAL

SUMMARY REPORT


NINTH REFUELING OUTAGE

PALO VERDE NUCLEAR GENERATING STATION

UNIT 2

PALO VERDE NUCLEAR GENERATING STATION
UNIT 2 INSERVICE INSPECTION REPORT
NINTH REFUELING OUTAGE

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

PREPARED BY:  DATE: 12-12-00
REVIEWED BY: Aelan Monow DATE: 12/12/00
APPROVED BY: Michael Melter DATE: 1/02/01

COMMERCIAL SERVICE DATE: 9/19/86
REPORT DATE: 12/12/00

UNIT 2 INSERVICE INSPECTION REPORT

1.0 Introduction

This report is a summary of the examinations performed during the ninth Inservice Inspection (ISI) at Palo Verde Nuclear Generating Station (PVNGS) Unit 2. This was the last refueling for the first period of Interval 2. The refueling began October 4, 2000 and was completed November 6, 2000. U2R9 was the first outage which implemented ASME Appendix VIII requirements, whereas increased ultrasonic techniques were used in the volumetric examination of piping welds. Palo Verde Unit 2 began commercial operation on September 19, 1986.

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.

This report is a summary of all examinations completed through Nov. 6, 2000 for period 1 of the 2nd interval. All of the examination report numbers listed in Appendix A for the ninth refueling and applicable examinations performed since the last summary report are numbered with 00-2XXX and are in bold print.

2.0 Examination Summary

The evaluation of the results from volumetric and surface examinations indicated that the integrity of the systems had been maintained. Augmented visual examinations were conducted on several RCS components and a PZR heater nozzle was found to have leakage. Repairs were performed. An augmented visual examination found leakage on a SG1 sample line nozzle and repairs were conducted. All discrepancies were corrected or determined "use as is" in accordance with PVNGS work control practices and ASME Section XI. The discrepant findings noted are listed in Section 7 (Repairs & Replacements).

Various non-rejectable indications were detected during the performance of examinations. These indications were recorded, and are maintained on file.

3.0 Examination Techniques

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 |
| S-Surface | PT | Liquid Penetrant |
| | MT | Magnetic Particle |
| VOL-Volumetric | UT | Ultrasonic |
| | RT | Radiographic |

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

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

5.0 Personnel

All nondestructive examinations were performed by Arizona Public Service Company, 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.

6.0 Equipment and Materials

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

No repairs or replacements were identified as a result of ISI examinations during U2R9. The PZR heater nozzle A-06 and a Steam Generator 1 sample line nozzle were rejected as a result of an augmented visual examination and were repaired per the requirements of the repair and replacement program. The applicable records and reports for the specific maintenance repair or replacements performed during U2R9 and after the last summary report are maintained on file at Palo Verde. The applicable NIS-2 forms are an attachment to Appendix D and are submitted for review with this report.

Items requiring corrective action as a result of the inservice or augmented examinations were as follows:

| ZONE | CRDR/WO | ITEM ID | DISCREPANCY |
|------|---------|------------|------------------------------------|
| RCS | 2321742 | SIUV628 | Boric acid residue |
| RCS | 2322158 | SIEFO30 | Boric acid residue |
| RCS | 2324138 | RCEPV100F | Boric acid residue |
| 5 | 2327179 | Heater A-6 | PZR Heater nozzle leakage detected |
| SG | 2330314 | SG1 nozzle | Sample nozzle leakage detected |

During initial walk down of the class 1 bolted connections, three RCS bolted connections were found to have boric acid residue. SIEFO30 and SIUV628 connections were disassembled and examined. The stainless steel bolting material showed no evidence of corrosion and were acceptable. Request for Relief numbers 11 and 12 were used to evaluate the condition of RCEPV100F. The condition, again with corrosion resistant bolting material, was found to be acceptable for continued operation. This evaluation is documented on CRDR #2324138.

An augmented visual examination of RCS components revealed leakage detected at the A06 PZR heater nozzle. Evaluations were performed and the A06 heater sleeve was plugged. A similar heater sleeve, B18, was also plugged after ID eddy current examinations revealed evidence of an ID crack indication. A significant investigation and transportability evaluation was performed and documented in CRDR #2326705.

A sample line nozzle on steam generator one revealed signs of leakage. The nozzle was repaired and reexamined.

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 and IWC. 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

Zone No: Area designation per PVNGS design

Comp/Sys: Component or system descriptor

Insp Per: Inspection period

Amt Req'd: Number of items required to be completed in the period

Amt Comp: Number of required 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

| | |
|------------------|---------------------------------|
| ADV: | Atmospheric Dump Valve |
| Aux FW: | Auxiliary Feedwater |
| Atmos Dump: | Atmospheric Dump |
| Circ: | Circumferential |
| Cont: | Containment |
| CS: | Containment Spray |
| CSP: | Containment Spray Pump |
| DWNCMR: | Downcomer |
| FW: | Feedwater |
| HPSI: | High Pressure Safety Injection |
| Letdown HT Exch: | Letdown Heat Exchanger |
| LPSI: | Low Pressure Safety Injection |
| MS: | Main Steam |
| PSV: | Pressurizer Safety Valve |
| PZR: | Pressurizer |
| RCP: | Reactor Coolant Pump |
| RCS: | Reactor Coolant System |
| Reg HT Exch: | Regenerative Heat Exchanger |
| RT: | Radiographic Testing |
| SD: | Shutdown |
| SDCHX: | Shutdown Cooling Heat Exchanger |
| SG: | Steam Generator |
| SI: | Safety Injection |
| SNUB. REDUC: | Snubber Reduction Program |
| UT: | Ultrasonic Testing |

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 | 12 | 12 | 47-1 | 99-2342 | 99-2324 | | | | | | |
| | | | | | 47-2 | 99-2343 | 99-2324 | | | | | | |
| | | | | | 47-4 | 99-2438 | 99-2202 | | | | | | |
| | | | | | 47-8 | 99-2439 | 99-2202 | | | | | | |
| | | | | | 47-12 | 99-2440 | 99-2202 | | | | | | |
| | | | | | 47-16 | 99-2441 | 99-2202 | | | | | | |
| | | | | | 47-20 | 99-2442 | 99-2202 | | | | | | |
| | | | | | 47-24 | 00-2476 | 00-2473 | | | | | | |
| | | | | | 47-25 | 99-2344 | 99-2202 | | | | | | |
| | | | | | 47-28 | 99-2297 | 99-2284 | | | | | | |
| | | | | | 47-29 | 99-2298 | 99-2284 | | | | | | |
| | | | | | 47-30 | 99-2345 | 99-2202 | | | | | | |
| | | | | | 51 Atmos Dump SG1 | One | 13 | 13 | 51-1 | 99-2286 | 99-2285 | | |
| | | | | | | | | | 51-2 | 99-2287 | 99-2082 | | |
| | 51-3 | 99-2288 | 99-2082 | | | | | | | | | | |
| | 51-4 | 99-2289 | 99-2082 | | | | | | | | | | |
| | 51-5 | 99-2290 | 99-2082 | | | | | | | | | | |
| | 51-6 | 99-2291 | 99-2082 | | | | | | | | | | |
| | 51-7 | 00-2209 | 00-2211 | | | | | | | | | | |
| | 51-8A | 00-2210 | 00-2212 | | | | | | | | | | |
| | 51-8B | 99-2292 | 99-2082 | | | | | | | | | | |
| | 51-9 | 99-2293 | 99-2082 | | | | | | | | | | |
| | 51-85 | 99-2295 | 99-2285 | | | | | | | | | | |
| | 51-86 | 99-2296 | 99-2285 | | | | | | | | | | |
| | 51-40 | 99-2294 | 99-2082 | | | | | | | | | | |
| | 53 Steam to Aux FW | One | 10 | 10 | | | | | 53-11 | 99-2299 | 99-2083 | | |
| | | | | | 53-12 | 99-2300 | 99-2083 | | | | | | |
| | | | | | 53-13 | 99-2301 | 99-2154 | | PSE | | | | |
| | | | | | 53-14 | 99-2302 | 99-2083 | | | | | | |
| | | | | | 53-15 | 99-2303 | 99-2083 | | | | | | |
| | | | | | 53-21 | 99-2304 | 99-2083 | | | | | | |
| | | | | | 53-22 | 99-2305 | 99-2083 | | | | | | |
| | | | | | 53-23 | 99-2306 | 99-2083 | | | | | | |
| | | | | | 53-24 | 99-2307 | 99-2154 | | PSE | | | | |
| | | | | | 53-25 | 99-2308 | 99-2083 | | | | | | |
| | | | | | 56 Feedwater SG1 | One | 6 | 6 | 56-1 | 00-2432 | 00-2425 | | |
| | | | | | | | | | 56-4 | 00-2433 | 00-2425 | | |
| | | | | | | | | | 56-6 | 00-2477 | 00-2425 | | |
| | | | | | | | | | 56-7 | 00-2478 | 00-2425 | | |
| | 56-9 | 00-2479 | 00-2425 | | | | | | | | | | |
| | 56-11 | 00-2480 | 00-2425 | | | | | | | | | | |
| | 60 Downcomer SG1 | One | 9 | 9 | 60-7 | 99-2525 | 99-2477 | | | | | | |
| | | | | | 60-8 | 00-2192 | 00-2083 | | | | | | |
| | | | | | 60-9 | 00-2193 | 00-2083 | | | | | | |
| | | | | | | 00-2194 | | | | | | | |
| | | | | | 60-11 | 00-2195 | 00-2083 | | | | | | |
| | | | | | | 00-2196 | | | | | | | |
| 60-12 | | | | | 00-2197 | 00-2083 | | | | | | | |
| | | | | 00-2198 | | | | | | | | | |

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 |
|--------------------|-------------------|-------------|------------|-------------|---------|---------|-----------------|--------|----------------------|
| AHE 5.51 & 5.52 | 66 Blowdown SG1 | One | 10 | 10 | 60-14 | 99-2526 | 99-2477 | | |
| | | | | | | 00-2199 | | | |
| | | | | | | 00-2200 | | | |
| | | | | | 60-15 | 99-2527 | 99-2477 | | |
| | | | | | 60-16 | 99-2528 | 99-2477 | | |
| | | | | | 60-17 | 99-2529 | 99-2477 | | |
| | | | | | 66-1 | 99-2427 | 99-2478 | | |
| | | | | | 66-2 | 99-2428 | 99-2318 | | |
| | | | | | 66-3 | 99-2429 | 99-2318 | | |
| | | | | | 66-4 | 99-2430 | 99-2318 | | |
| | | | | | 66-5 | 99-2431 | 99-2318 | | |
| | | | | | 66-7 | 99-2432 | 99-2318 | | |
| | | | | | 66-8 | 99-2433 | 99-2318 | | |
| | | | | | 66-9 | 99-2434 | 99-2318 | | |
| | | | | | 66-25 | 99-2479 | 99-2478 | | |
| | | | | | 66-28 | 99-2435 | 99-2318 | | |
| AHE 5.81 & 5.82 | 47 MS SG1 | One | 7 | 7 | 47-3 | 99-2356 | 99-2202 | | |
| | | | | | 47-7 | 99-2357 | 99-2202 | | |
| | | | | | 47-11 | 99-2359 | 99-2202 | | |
| | | | | | 47-15 | 99-2360 | 99-2202 | | |
| | | | | | 47-19 | 99-2361 | 99-2202 | | |
| | | | | | 47-23 | 99-2362 | 99-2202 | | |
| B 1.22 | 02 Closure Head | One | 33% | 33% | 47-27 | 99-2358 | 99-2284 | | |
| | | | | | 2-4 | 99-2386 | 99-2390 | | Accessible Areas |
| | | | | | | 99-2387 | | | |
| | | | | | | 99-2388 | | | |
| 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 | 99-2382 | 99-2390 | | Examined 0°-120° |
| | | | | | | 99-2383 | | | |
| | | | | | | 99-2384 | | | |
| | | | | | | 99-2385 | | | |
| B 2.11 & 2.12 | 5 Pressurizer | One | 66% | 66% | 5-2 | 99-2276 | 99-2193 | | Examined 0°-240° |
| | | | | | | 99-2277 | | | |
| | | | | | | 99-2278 | | | |
| | | | | | | 99-2279 | | | |
| | | | | | 5-3 | 99-2276 | 99-2193 | | 1' long seam for 5-2 |
| | | | | | | 99-2277 | | | |
| | | | | | | 99-2278 | | | |
| | | | | | | 99-2279 | | | |
| B 2.31 & 2.32 | 03 SG1 | One | 2 | 2 | 3-3 | 99-2251 | | | |
| | | | | | | 99-2252 | | | |
| | | | | | | 99-2253 | | | |
| | | | | | | 99-2254 | | | |
| | | | | | 3-10 | 99-2247 | | | |
| | | | | | | 99-2248 | | | |
| | | | | | | 99-2249 | | | |
| | | | | | | 99-2250 | | | |

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 |
|------------------|-------------------|-------------|------------|-------------|--------------|---|-----------------|--------------------|--|
| B 2.31 & 2.32 | | | | | 3-11 | 99-2227 99-2232 99-2233 99-2234 | | | |
| | | | 33% | 33% | 3-5 | 99-2227 99-2228 99-2229 | | | Examined 0°-120° |
| B 2.40 | 03 SG1 | One | 50% | 50% | 3-6 | 99-2230 99-2231 99-2232 99-2233 99-2234 | | | Examined 0°-180° |
| B 3.90 | 01 Reactor Vessel | One | 2 | 2 | 1-15 1-18 | * * | | | *Seperate Report by Wesdyne. Exam completed in 2R7 |
| B 3.100 | 01 Reactor Vessel | One | 2 | 2 | 1-15 1-18 | * * | | | |
| B 3.110 | 5 PZR | One | 2 | 2 | 5-9 | 00-2379 00-2380 00-2381 00-2382 | | | |
| | | | | | 5-11 | 00-2341 00-2342 00-2343 00-2344 | | | |
| B 3.120 | 5 PZR | One | 2 | 2 | 5-9 | 00-2386 00-2387 | | | |
| | | | | | 5-11 | 00-2353 00-2357 | | | |
| B 3.130 | 03 SG1 | One | 1 | 1 | 3-9 | 99-2243 99-2244 99-2245 99-2246 | | | |
| | 4 SG 2 | One | 1 | 1 | 4-9 | 00-2516 00-2517 00-2518 00-2519 | | | |
| B 3.140 | 3 SG1 | One | 1 | 1 | 3-9 | 00-2521 00-2523 | | | |
| | 4 SG 2 | One | 1 | 1 | 4-9 | 00-2522 00-2524 | | | |
| B 4.12 | 2 Closure Head | One | 8 | 8 | CEDM | | | 00-2569 | |
| B 4.13 | 1 Reactor Vessel | One | 5 | 5 | Instru | | | 00-2569 | |
| B 4.20 | 05 PZR | One | 12 | 12 | heaters | | | 99-2522 00-2569 | |
| B 5.40 | 20 PZR Surge | One | 1 | 1 | 5-34 | 00-2426 00-2427 00-2428 00-2520 | 00-2111 | | |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|-----------------|-------------|------------|-------------|-----------|---|-----------------|---------|---------|
| B 5.40 | 31 PZR Safeties | One | 1 | 1 | 5-29 | 00-2383 00-2384 00-2385 00-2429 00-2099 | 00-2089 | | |
| B 6.10 | 02 Closure Head | One | 18 | 18 | 1 thru 18 | | 99-2332 | 99-2333 | |
| B 6.30 | 02 Closure Head | One | 18 | 18 | 1 thru 18 | 00-2296 | 99-2335 | | |
| B 6.50 | 02 Closure Head | One | 18 | 18 | 1 thru 18 | | | 99-2334 | |
| B 6.180 | 16 RCP 1A | One | 5 | 5 | 1 thru 5 | 00-2394 | | 99-2444 | |
| | | | | | | | | 00-2441 | |
| | 17 RCP 1B | One | 5 | 5 | 1 thru 5 | 00-2394 | | 99-2447 | |
| | | | | | | | | 00-2441 | |
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | 00-2394 | | 99-2446 | |
| | | | | | | | | 00-2441 | |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | 00-2394 | | 99-2445 | |
| | | | | | | | | 00-2441 | |
| B 6.200 | 16 RCP 1A | One | 5 | 5 | 1 thru 5 | | | 99-2444 | |
| | | | | | | | | 00-2441 | |
| | 17 RCP 1B | One | 5 | 5 | 1 thru 5 | | | 99-2447 | |
| | | | | | | | | 00-2441 | |
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | | | 99-2446 | |
| | | | | | | | | 00-2441 | |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | | | 99-2445 | |
| | | | | | | | | 00-2441 | |
| B 7.20 | 05 Pressurizer | One | 20 | 20 | 20 studs | | | 99-2260 | |
| | | | | | | | | 00-2249 | |
| B 7.30 | 03 SG1 | One | 40 | 40 | 40 studs | | | 99-2258 | |
| | | | | | | | | 00-2247 | |
| | 04 SG2 | One | 40 | 40 | 40 studs | | | 99-2259 | |
| | | | | | | | | 00-2248 | |
| B 7.50 | 31 Pzr Safeties | One | 1 | 1 | PSV200 | | | 99-2261 | |
| | | | | | | | | 99-2373 | |
| | | | | | | | | 00-2250 | |
| | | | | | PSV201 | | | 99-2261 | |
| | | | | | | | | 99-2373 | |
| | | | | | | | | 00-2250 | |
| | | | | | PSV202 | | | 99-2261 | |
| | | | | | | | | 99-2373 | |
| | | | | | | | | 00-2250 | |
| | | | | | PSV203 | | | 99-2261 | |
| | | | | | | | | 99-2373 | |
| | | | | | | | | 00-2250 | |
| | 37 Charging | One | 1 | 1 | V435 | | | 99-2113 | |
| B 7.60 | 16 RCP 1A | One | 5 | 5 | 1 thru 5 | | | 99-2444 | |
| | | | | | | | | 00-2441 | |
| | 17 RCP 1B | One | 5 | 5 | 1 thru 5 | | | 99-2447 | |
| | | | | | | | | 00-2441 | |
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | | | 99-2446 | |
| | | | | | | | | 00-2441 | |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | | | 99-2445 | |
| | | | | | | | | 00-2441 | |

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 |
|------------------------------|---------------------------------|-------------|------------|-------------|---------|---------|-----------------|---------|--|
| B 7.70 | 21 SD Cooling A | One | 1 | 1 | UV653 | | | 99-2321 | |
| | 22 SD Cooling B | One | 1 | 1 | UV654 | | | 00-2324 | |
| | 23 SI 1A | One | 1 | 1 | V237 | | | 00-2567 | |
| | 24 SI 1B | One | 1 | 1 | V543 | | | 99-2069 | |
| | 25 SI 2A | One | 1 | 1 | V540 | | | 99-2177 | |
| | 26 SI 2B | One | 1 | 1 | V225 | | | 99-2091 | |
| | 28 PZR Spray | One | 2 | 2 | V241 | | | 99-2181 | Reject |
| | | | | | | | | 99-2372 | Re-exam |
| | | | | | | | | 00-2046 | |
| | | | | | V242 | | | 99-2182 | Reject |
| | | | | | | | | 99-2372 | Re-exam |
| | | | | | | | | 00-2046 | |
| | 31 PZR Safeties | One | 1 | 1 | PSV200 | | | 99-2505 | |
| | | | | | | | | 00-2435 | |
| | 32 Drain Loop 1A | One | 2 | 2 | V234 | | | 99-2081 | |
| | | | | | V334 | | | 99-2081 | |
| | 37 Charging | One | 1 | 1 | PDV240 | | | 99-2346 | |
| | 38 Drain Loop 1 | One | 1 | 1 | V215 | | | 00-2097 | |
| | 39 Hpsi | One | 1 | 1 | V523 | | | 00-2085 | |
| B 7.80 | 2 Closure Head | One | 1 | 1 | CEDM 92 | | | 00-2322 | |
| | | | | | CEDM 96 | | | 00-2322 | |
| B 8.20 | 5 Pressurizer | One | 66% | 66% | 5-1 | 99-2394 | 99-2193 | | |
| | | | | | | 99-2395 | | | |
| | | | | | | 99-2396 | | | Reject. Acceptable per MNCR 93-RC-2027 |
| | | | | | | 99-2397 | | | |
| B 8.30 | 03 SG1 | One | 33% | 33% | 3-1 | 99-2239 | 99-2194 | | Examined 0°-120° |
| | | | | | | 99-2240 | | | |
| | | | | | | 99-2241 | | | |
| | | | | | | 99-2242 | | | |
| B 9.11 & 9.12 | 06 RCS Piping | One | 7 | 7 | 1-27 | * | 00-2511 | | *Separate report by Wesdyne. Exams completed in U2R7 |
| | | | | | 1-30 | * | 00-2511 | | |
| | | | | | 6-7 | * | 00-2511 | | |
| | | | | | 7-7 | * | 00-2511 | | |
| | | | | | 3-30 | | 99-2215 | 99-2548 | |
| | | | | | | | 99-2216 | | |
| | 20 PZR Surge 21 SD Cooling 1 | One | 3 | 3 | | | 99-2217 | | |
| | | | | | | | 99-2218 | | |
| | | | | | 4-30 | | 99-2219 | 99-2548 | |
| | | | | | | | 99-2220 | | |
| | | | | | | | 99-2221 | | |
| | | | | | | | 99-2222 | | |
| | | | | | 17-2 | | 00-2332 | 00-2290 | |
| | | | | | 20-1 | | 00-2201 | 00-2111 | |
| | | | | | 6-11 | | 00-2531 | 00-2112 | |
| | | | | | | | 00-2532 | | |
| | | | | | | | 00-2533 | | |
| | | | | | | | 00-2535 | | |
| | | | | | | | 00-2539 | | |
| | | | | | 21-18 | | 00-2536 | 00-2528 | |
| | | | | | | | 00-2537 | | |

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 |
|------------------|------------------|-------------|------------|-------------|---------|---------|-----------------|--------|--------------|
| B 9.11 & 9.12 | | | | | 21-20 | 00-2534 | 00-2113 | | |
| | | | | | | 00-2538 | | | |
| | 22 SD Cooling 2 | One | 2 | 2 | 22-11 | 00-2244 | 00-2101 | | |
| | | | | | | 00-2245 | | | |
| | | | | | 22-14 | 00-2246 | 00-2101 | | |
| | 23 SI 1A | One | 4 | 4 | 9-10 | 00-2234 | 00-2100 | | |
| | | | | | | 00-2235 | | | |
| | | | | | | 00-2236 | | | |
| | | | | | | 00-2237 | | | |
| | | | | | 23-1 | 00-2238 | 00-2100 | | |
| | | | | | 23-2 | 00-2239 | 00-2100 | | |
| | | | | | 23-4 | 00-2240 | 00-2100 | | |
| | | | | | | 00-2241 | | | |
| | 25 SI 2A | One | 2 | 2 | 25-26 | 99-2366 | 99-2078 | | |
| | | | | | 25-29 | 99-2365 | 00-2084 | | |
| | 26 SI 2B | One | 2 | 2 | 26-9 | 99-2367 | 99-2320 | | |
| | | | | | 26-11 | 99-2368 | 99-2320 | | |
| | 29 PZR Spray | One | 2 | 2 | 29-10 | 00-2114 | 00-2088 | | |
| | | | | | | 00-2116 | | | |
| | | | | | 29-11 | 00-2115 | 00-2088 | | |
| | | | | | | 00-2117 | | | |
| | 31 PZR Safeties | One | 1 | 1 | 31-1 | 00-2354 | 00-2089 | | |
| B 9.21 & 9.22 | 27 PZR Spray 1A | One | 4 | 4 | 9-11 | | 00-2102 | | |
| | | | | | 27-42 | | 00-2102 | | |
| | | | | | 27-43 | | 00-2102 | | |
| | | | | | 27-44 | | 00-2102 | | |
| | 28 PZR Spray 1A | One | 4 | 4 | 28-31 | | 99-2213 | | |
| | | | | | 28-32 | | 99-2213 | | |
| | | | | | 28-39 | | 99-2213 | | |
| | | | | | 28-40 | | 99-2213 | | |
| | 30 Aux PZR Spray | One | 2 | 2 | 30-1 | 00-2525 | 00-2527 | | 88-08 letter |
| | | | | | | 00-2529 | | | |
| | | | | | 30-2 | 00-2526 | 00-2527 | | 88-08 letter |
| | | | | | | 00-2530 | | | |
| | | | | | 30-7 | | 99-2076 | | |
| | | | | | 30-13 | | 99-2076 | | |
| | 32 Drain 1A | One | 3 | 3 | 8-18 | | 99-2079 | | |
| | | | | | 32-1 | | 99-2079 | | |
| | | | | | 32-2 | | 99-2079 | | |
| | 36 Letdown | One | 4 | 4 | 36-8 | | 99-2191 | | |
| | | | | | 36-9 | | 99-2191 | | |
| | | | | | 36-28 | | 99-2180 | | |
| | | | | | 36-35 | | 99-2180 | | |
| | 37 Charging | One | 5 | 5 | 37-41 | | 99-2347 | | |
| | | | | | 37-42 | | 99-2347 | | |
| | | | | | 37-43 | | 99-2347 | | |
| | | | | | 37-45 | | 99-2347 | | |
| | | | | | 37-47 | | 99-2347 | | |
| | 39 HPSI A | One | 2 | 2 | 39-1 | | 99-2080 | | |
| | | | | | 39-5 | | 99-2080 | | |

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 |
|------------------|------------------|-------------|------------|-------------|--|--------------------|-------------------------------|--|-------------------------|
| B 9.21 & 9.22 | 40 HPSI B | One | 3 | 3 | 40-1 40-2 40-3 | | 00-2103 00-2103 00-2103 | | |
| B9.31 | 6 RCS Piping | One | 1 | 1 | 9-8 | 00-2330 00-2331 | 00-2289 | | |
| B 9.32 | 06 RCS Piping | One | 1 | 1 | 8-17 | | 99-2068 | | |
| | 22 SD Cooling | One | 1 | 1 | 22-7A | | 00-2203 | | |
| B 9.40 | 32 Drain 1A | One | 1 | 1 | 32-6 | | 99-2079 | | |
| | 38 Drain 1A | One | 1 | 1 | 38-5 | | 00-2098 | | |
| B10.10 | 36 Letdown | One | 1 | 1 | RC91H5 RC91H6 | | 99-2180 99-2180 | | |
| B13.10 | 1 Reactor Vessel | One | 100% | 100% | Access areas | | | 00-2556 | |
| B14.10 | 2 Closure Head | One | 2 | 2 | 2-9-76 2-9-83 | 00-2328 00-2328 | 00-2335 00-2335 | | |
| | | One | 2 | 2 | 2-10-76 2-10-83 | 00-2329 00-2329 | 00-2335 00-2335 | | |
| B15.10,20, | RCS Piping | One | ALL | ALL | PressBound | | | * | *RR#11 & 12 |
| B15.20 | | | | | | | | * | 99-2410,99-2522,00-2001 |
| B15.30 | | | | | | | | * | 00-2042,00-2043,00-2047 |
| B15.40 | | | | | | | | * | 00-2077,00-2191,00-2150 |
| B15.50 | | | | | | | | * | 00-2213,00-2262,00-2512 |
| B15.60 | | | | | | | | * | 00-2564,00-2569,00-2573 |
| BFLYWHL16 | RCP 1A | One | 1 | 1 | Flywheel | 00-2202 | | | |
| | 17 RCP1B | One | 1 | 1 | Flywheel | 00-2164 | | | |
| | 18 RCP 2A | One | 1 | 1 | Flywheel | 00-2253 | | | |
| | 19 RCP 2B | One | 1 | 1 | Flywheel | 00-2254 | | | |
| F 1.10 | 20 PZR Surge | One | 2 | 2 | RC28H1 RC28H2 | | | 99-2151 99-2152 | |
| | 21 SD Cooling A | One | 7 | 7 | RC51H1 RC51H2 RC51H3 RC51H821 | | | 00-2118 00-2119 00-2120 00-2121 | support deleted |
| | | | | | SI240H10 SI240H11 SI240H13 | | | 99-2337 99-2338 99-2339 | |
| | 22 SD Cooling | One | 4 | 4 | RC68H5 RC68H6 SI193H17 SI193H19 | | | 00-2104 00-2105 00-2106 00-2107 | support deleted |
| | 23 SI 1A | One | 2 | 2 | SI207H3 SI207H5 | | | 00-2086 00-2087 | support deleted |
| | 24 SI 1B | One | 2 | 2 | SI223H3 SI223H4 | | | 99-2117 99-2523 | support deleted |
| | 25 SI 2A | One | 2 | 2 | SI156H7 SI156H9 | | | 99-2094 99-2099 | support deleted |
| F 1.10 | 26 SI 2B | One | 2 | 2 | SI179H9 SI179H11 | | | 99-2524 99-2171 | support deleted |
| | 27 PZR Spray 1A | One | 9 | 9 | RC62H26 RC62H27 RC62H28 RC62H29 | | | 99-2153 99-2203 99-2155 99-2156 | support deleted |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|-----------------|-------------|------------|-------------|----------|-----|-----------------|---------|-----------------|
| | | | | | RC62H30 | | | 99-2157 | |
| | | | | | RC62H31 | | | 99-2158 | support deleted |
| | | | | | RC62H32 | | | 99-2159 | |
| | | | | | RC62H33 | | | 99-2504 | |
| | | | | | RC62H34 | | | 99-2160 | support deleted |
| | 28 PZR Spray 1B | One | 8 | 8 | RC17H24 | | | 99-2144 | |
| | | | | | RC17H34 | | | 99-2145 | |
| | | | | | RC17H36 | | | 99-2146 | |
| | | | | | RC17H38 | | | 99-2147 | |
| | | | | | RC17H39 | | | 99-2148 | support deleted |
| | | | | | RC17H40 | | | 99-2149 | |
| | | | | | RC17H41 | | | 99-2150 | support deleted |
| | | | | | RC17H42 | | | 99-2503 | |
| | 29 PZR Spray | One | 2 | 2 | RC18H16 | | | 00-2090 | |
| | | | | | RC18H18 | | | 00-2091 | |
| | 32 Drain 1A | One | 2 | 2 | RC60HA | | | 99-2031 | support deleted |
| | | | | | RC60HB | | | 99-2127 | support deleted |
| | 36 Letdown | One | 9 | 9 | RC91H1 | | | 99-2204 | |
| | | | | | RC91H5 | | | 99-2197 | |
| | | | | | RC91H6 | | | 99-2255 | |
| | | | | | RC91HB | | | 99-2206 | support deleted |
| | | | | | RC91HD | | | 99-2207 | |
| | | | | | RC91HE | | | 99-2199 | support deleted |
| | | | | | RC91HY | | | 99-2208 | |
| | | | | | RC91HZ | | | 99-2205 | |
| | | | | | RC91HAA | | | 99-2209 | |
| | | | | | RC91HAK | | | 99-2210 | |
| | 37 Charging | One | 14 | 14 | CH5H2 | | | 99-2376 | support deleted |
| | | | | | CH5H3 | | | 99-2377 | |
| | | | | | CH5H7 | | | 99-2378 | Expansion |
| | | | | | CH5H13 | | | 99-2379 | Expansion |
| | | | | | CH5H25 | | | 99-2110 | |
| | | | | | CH5H26 | | | 99-2348 | support deleted |
| | | | | | CH5H27 | | | 99-2349 | |
| | | | | | CH5H28 | | | 99-2350 | |
| | | | | | CH5H30 | | | 99-2351 | |
| | | | | | CH5H34 | | | 99-2352 | |
| | | | | | CH5H35 | | | 99-2353 | |
| | | | | | CH5H36 | | | 99-2354 | |
| | | | | | CH5H42 | | | 99-2111 | Reject |
| | | | | | | | | 99-2506 | Re-exam |
| | | | | | | | | 00-2076 | |
| | | | | | CH5H43 | | | 99-2380 | support deleted |
| | | | | | CH5H44 | | | 99-2381 | |
| | | | | | CH5HAA | | | 99-2112 | support deleted |
| F 1.10 | 39 HPSI A | One | 4 | 4 | SI248H26 | | | 99-2089 | support deleted |
| | | | | | SI248H27 | | | 99-2088 | |
| | | | | | SI248H28 | | | 99-2087 | |
| | | | | | SI248H30 | | | 99-2092 | |

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 1.40 | 40 HPSI B | One | 3 | 3 | SI199H13 | | | 00-2108 | support deleted |
| | | | | | SI199H14 | | | 00-2109 | |
| | | | | | SI199H21 | | | 00-2110 | |
| | 03 SG1 | One | 1 | 1 | 3-40 | | | 99-2224 | |
| | 05 Pressurizer | One | 0 | 0 | 5-40 | | | 99-2225 | |
| | 16 RCP 1A | One | 2 | 2 | 16-17 | | | 99-2448 | |
| | | | | | 16-18 | | | 99-2449 | |
| | 17 RCP 1B | One | 2 | 2 | 17-17 | | | 99-2450 | |
| | | | | | 17-18 | | | 99-2451 | |
| | 18 RCP 2A | One | 4 | 4 | 18-12 | | | 99-2452 | |
| | | | | | 18-13 | | | 99-2453 | |
| | | | | | 18-14 | | | 99-2454 | |
| | | | | | 18-15 | | | 99-2455 | |
| | 19 RCP 2B | One | 4 | 4 | 19-12 | | | 99-2456 | |
| | | | | | 19-13 | | | 99-2457 | |
| | | | | | 19-14 | | | 99-2458 | |
| | | | | | 19-15 | | | 99-2459 | |
| C 1.10 | 41 SG 1 | One | 1(50) | 1(50%) | 41-3 | 00-2292 | | | exam 180° - 360° |
| | | | | | | 00-2293 | | | |
| | | | | | | 00-2294 | | | |
| | | | | | | 00-2295 | | | |
| | | | 1(50%) | 1(50%) | 41-4 | 00-2279 | | | exam 180° - 360° |
| | | | | | | 00-2280 | | | |
| | | | | | | 00-2281 | | | |
| | | | | | | 00-2282 | | | |
| | 69 Letdown HTEXCH | One | 50% | 50% | 69-1 | 99-2436 | | | exam 0° - 180° |
| C 1.20 | 41 SG 1 | One | 1(50%) | 1(50%) | 41-5 | 00-2230 | | | exam 180° - 360° |
| | | | | | | 00-2231 | | | |
| | | | | | | 00-2232 | | | |
| | | | | | | 00-2233 | | | |
| C 1.30 | 41 SG1 | One | 1(50%) | 1(50%) | 41-1 | 99-2235 | | | exam 0° - 180° |
| | | | | | | 99-2236 | | | |
| | | | | | | 99-2237 | | | |
| | | | | | | 99-2238 | | | |
| | 69 Letdown HTEXCH | One | 50% | 50% | 69-2 | 99-2437 | | | exam 0° - 180° |
| C 2.21 | 41 SG 1 | One | 1 | 1 | 41-16 | 00-2349 | 00-2336 | | |
| | | | | | | 00-2350 | | | |
| | 42 SG 2 | One | 1 | 1 | 42-16 | 00-2351 | 00-2337 | | |
| | | | | | | 00-2352 | | | |
| C 3.10 | 41 SG 1 | One | 1 | 1 | 41-42 | | 00-2176 | | 270° |
| C 3.20 | 43 MS SG1 90 | One | 1 | 1 | SG36H17 | | 99-2325 | | |
| | | | | | | | 00-2175 | | |
| | 45 MS SG2 270 | One | 1 | 1 | SG42H14 | | 99-2326 | | |
| | 54 FW SG1 | One | 0 | 0 | SG2H1 | | 99-2322 | | |
| | 55 FW SG2 | One | 1 | 1 | SG5H1 | | 99-2323 | | |
| | | | | | SG5H9 | | 00-2300 | | |
| | | | | | | | 00-2311 | | |
| C 3.20 | 64 Blowdown SG 1 | One | 3 | 3 | SG39H15 | | 00-2078 | | |
| | | | | | SG39H17 | | 00-2079 | | |
| | | | | | SG53H1 | | 00-2073 | | support deleted |

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| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|------------------|-------------------------------|-------------|------------|-------------|----------|-----|-----------------|---------|---|
| C 3.30 | 65 Blodown SG 2 | One | 2 | 2 | SG48H20 | | 00-2080 | | support deleted |
| | | | | | SG52H1 | | 00-2045 | | |
| | 71 LPSI Discharge | One | 1 | 1 | SI87H11 | | 99-2200 | | 96% covrg , Accept. per code case N490 |
| | 76 CS Suction | One | 1 | 1 | SI9H4 | | 99-2214 | | |
| | 88 East Wrap | One | 1 | 1 | SI72H13 | | 99-2398 | | |
| | 89 East Wrap | One | 1 | 1 | SI194H14 | | 99-2272 | | |
| | 91 West Wrap | One | 4 | 4 | SI70H9 | | 99-2178 | | |
| | | | | | SI70H11 | | 99-2178 | | |
| | | | | | SI70H12 | | 99-2178 | | |
| | | | | | SI70H16 | | 99-2178 | | |
| | 92 West Wrap | One | 1 | 1 | SI241H21 | | 99-2179 | | |
| | 100 LPSI Suction | One | 1 | 1 | SI369H1 | | 99-2319 | | |
| | 102 SI Suction A | One | 3 | 3 | SI307H2 | | 00-2305 | | |
| | | | | | SI307H3 | | 00-2378 | | |
| | | | | | SI307H15 | | 00-2306 | | |
| | 113 HPSI Discharge | One | 1 | 1 | SI107H22 | | 00-2214 | | |
| | 72 LPSI Pump A | One | 3 | 3 | 72-3A | | 99-2226 | | |
| | | | | | 72-3B | | 99-2226 | | |
| | | | | | 72-3C | | 99-2226 | | |
| | 116 HPSI A Pump | One | 4 | 4 | 116-1A | | 00-2558 | | |
| | | | | | 116-1B | | 00-2558 | | |
| | | | | | 116-1C | | 00-2558 | | |
| | | | | | 116-1D | | 00-2558 | | |
| C 4.40 | 47 MS SG 1 | One | 20 | 20 | V170 | | 00-2393 | | |
| | 48 MS SG1 | One | 20 | 20 | V180 | | 00-2393 | | |
| C 5.11 & 5.12 | 63 Aux FW | One | 1 | 1 | 63-4 | | 00-2273 | 00-2039 | |
| | | | | | | | 00-2274 | | |
| | 70 & 73 LPSI Suction A & B | One | 1 | 1 | 70-58 | | 99-2314 | 99-2264 | |
| | 82 & 85 SD Cooling A & B | One | 2 | 2 | 72-50 | | 99-2271 | 99-2126 | |
| | | | | | 73-49 | | 00-2152 | 00-2153 | |
| | 83 & 86 SD Cooling A & B | One | 4 | 4 | 74-19 | | 99-2270 | 99-2022 | |
| | | | | | 74-21 | | 99-2265 | 99-2263 | |
| | | | | | 74-22 | | 99-2266 | 99-2263 | |
| | | | | | 74-105 | | 99-2269 | 99-2059 | |
| | 88 & 91 East & West Wrap | One | 6 | 6 | 74-44 | | 99-2184 | 99-2178 | |
| | | | | | 76-2 | | 99-2183 | 99-2178 | |
| | | | | | 76-21 | | 00-2259 | 00-2224 | |
| | | | | | | | 00-2308 | | |
| | | | | | 77-7 | | 00-2326 | 00-2225 | |
| | | | | | | | 00-2327 | | |
| | | | | | 77-14 | | 00-2260 | 00-2226 | |
| C 5.11 & 5.12 | | | | | | | 00-2307 | | |
| | | | | | | | 00-2325 | | |
| | | | | | 78-16 | | 99-2355 | 99-2313 | |
| | 94 & 95 88' Pipe Chase | One | 1 | 1 | 74-40 | | 00-2392 | 00-2345 | |
| | 96,97,98,99 LPSI Loop | One | 3 | 3 | 78-45 | | 99-2363 | 99-2077 | |
| | 1A,1B, 2A, 2B | | | | 78-47 | | 99-2364 | 99-2077 | |
| | | | | | 79-23 | | 00-2309 | 00-2255 | |
| | | | | | | | 00-2310 | | |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|----------------------------|-----------------------------|-------------|------------|-------------|---------|---------|-----------------|--------|--|
| C 5.21 | 102 SI Suction A | One | 1 | 1 | 84-12 | 00-2355 | 00-2340 | | |
| | | | | | | 00-2356 | | | |
| | 103 Refueling suction A | One | 1 | 1 | 86-57 | 00-2430 | 00-2346 | | |
| | | | | | | 00-2431 | | | |
| | 104 SI Suction B | One | 1 | 1 | 85-46 | 00-2390 | 00-2278 | | |
| | | | | | | 00-2391 | | | |
| | 105 Refueling Suction A | One | 1 | 1 | 87-23 | 00-2040 | 00-2048 | | |
| | 106 & 107 HPSI | One | 4 | 4 | 106-1 | 00-2485 | 00-2263 | | |
| | | | | | | 00-2487 | | | |
| | | | | | 106-21 | 00-2481 | 00-2264 | | |
| | | | | | | 00-2482 | | | |
| | | | | | 107-11 | 00-2242 | 00-2081 | | |
| | | | | | | 00-2243 | | | |
| | | | | | 107-42 | 00-2514 | 00-2082 | | |
| | | | | | | 00-2515 | | | |
| C 5.30 C 5.41 & 5.42 | 108 & 109 HPSI | One | 2 | 2 | 109-4 | 00-2489 | 00-2396 | | |
| | | | | | 109-21 | 00-2486 | 00-2395 | | |
| | | | | | | 00-2488 | | | |
| | 110 & 111 HPSI | One | 2 | 2 | 110-6 | 00-2291 | 00-2222 | | |
| | | | | | 110-39 | 00-2333 | 00-2223 | | |
| | | | | | | 00-2388 | | | |
| | 112 & 113 HPSI | One | 3 | 3 | 112-1 | 00-2165 | 00-2154 | | |
| | | | | | 112-33 | 00-2166 | 00-2154 | | |
| | | | | | 112-45 | 00-2167 | 00-2154 | | |
| | 114 & 115 HPSI | One | 1 | 1 | 115-13 | 00-2334 | 00-2256 | | |
| | | | | | | 00-2389 | | | |
| | 107 HPSI | One | 1 | 1 | 107-53 | | 00-2092 | | |
| | 82 & 85 SD Cooling A & B | One | 1 | 1 | 72-49A | | 99-2067 | | |
| | 88 & 91 East & West Wrap | One | 1 | 1 | 74-102 | | 99-2178 | | |
| C 5.51 & 5.52 | 43 MS SG1 90 | One | 1 | 1 | 43-2 | 99-2370 | 99-2312 | | |
| | 44 MS SG1 270 | One | 1 | 1 | 44-1 | 99-2369 | 99-2310 | | |
| | 46 MS SG2 90 | One | 1 | 1 | 46-25 | 99-2371 | 99-2311 | | |
| | 54 FW SG 1 | One | 1 | 1 | 54-41 | 00-2434 | 00-2261 | | |
| | 55 FW SG 2 | One | 2 | 2 | 55-1 | 00-2074 | 00-2044 | | |
| | | | | | 55-15 | 00-2075 | 00-2044 | | |
| | 58 Aux & Dwncmr SG1 | One | 1(5) | 1(5) | 41-39 | 99-2393 | 99-2198 | | ()Identifies augment EXAM(IEB 79-13 & SER 83-07) |
| | | | | | 58-1 | 99-2392 | 99-2198 | | |
| | | | | | 58-12 | 99-2128 | 99-2023 | | |
| | | | | | 58-13 | 99-2129 | 99-2023 | | |
| | | | | | 58-16 | 99-2130 | 99-2023 | | |
| | | | | | 58-16A | 99-2131 | 99-2023 | | |
| | 59 Aux & Dwncmr SG2 | One | 0(5) | 0(5) | 59-1 | 99-2391 | 99-2192 | | |
| | | | | | 59-12 | 99-2132 | 99-2024 | | |
| | | | | | 59-13 | 99-2133 | 99-2024 | | |
| | | | | | 59-16 | 99-2134 | 99-2025 | | |
| | | | | | 59-16A | 99-2135 | 99-2024 | | |
| C 6.10 | 64 Blowdown SG1 | One | 1 | 1 | 64-30 | 00-2347 | 00-2338 | | |
| | 65 Blowdown SG2 | One | 1 | 1 | 65-28 | 00-2348 | 00-2339 | | |
| | 116 & 117 HPSI | Interval | 2 | 1 | 116-2 | | 00-2557 | | |

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| ASME Item no | Zone Comp/sys | Insp per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|----------------------|-------------|------------|-------------|----------|-----|-----------------|---------|--------------------------|
| C 7.10 | Piping Systems | One | all | all | Press | | | * | *00-2041,00-2042,00-2138 |
| C 7.30 | | | | | | | | * | 00-2140,00-2141,00-2142 |
| C 7.50 | | | | | | | | * | 00-2143,00-2146,00-2147 |
| C 7.70 | | | | | | | | * | 00-2148,00-2149,00-2151 |
| | | | | | | | | | 00-2157,00-2160,00-2161 |
| | | | | | | | | | 00-2162,00-2163,00-2284 |
| | | | | | | | | | 00-2285,00-2442,00-2494 |
| | | | | | | | | | 00-2513,00-2547,00-2548 |
| | | | | | | | | | 00-2549,00-2550,00-2555 |
| | | | | | | | | | 00-2563,00-2564,00-2565 |
| | | | | | | | | | 00-2566,00-2569,00-2570 |
| | | | | | | | | | 00-2571,00-2572,00-2575 |
| F 1.20 | 43 MS SG1 90 | One | 3 | 3 | SG36H17 | | | 00-2177 | |
| | | | | | SG36H884 | | | 00-2178 | |
| | | | | | SG36H885 | | | 00-2179 | |
| | 44 MS SG1 270 | One | 2 | 2 | SG33H17 | | | 00-2180 | |
| | | | | | SG33H18 | | | 00-2181 | support deleted |
| | 45 MS SG2 270 | One | 1 | 1 | SG42H14 | | | 00-2182 | support deleted |
| | 46 MS SG2 90 | One | 2 | 2 | SG45H17 | | | 00-2183 | |
| | | | | | | | | 00-2551 | |
| | | | | | SG45H18 | | | 00-2184 | support deleted |
| | | | | | | | | 00-2552 | support deleted |
| | 47 MS SG1 270 | One | 1 | 1 | SG206H1 | | | 99-2336 | |
| | 51 Atm Dump SG1 | One | 1 | 1 | SG59H6 | | | 99-2090 | |
| | 53 Steam to Aux FW | One | 4 | 4 | SG81H1 | | | 99-2072 | |
| | | | | | SG81H2 | | | 99-2073 | |
| | | | | | SG83H1 | | | 99-2074 | |
| | | | | | SG83H2 | | | 99-2075 | |
| | 54 FW SG1 | One | 7 | 7 | SG2H4 | | | 00-2312 | |
| | | | | | SG2H5 | | | 00-2313 | |
| | | | | | SG2H12 | | | 00-2562 | |
| | | | | | SG2H13 | | | 00-2314 | |
| | | | | | SG2H14 | | | 00-2315 | |
| | | | | | SG2H15 | | | 00-2316 | |
| | | | | | SG2H803 | | | 00-2540 | |
| | 55 FW SG2 | One | 9 | 9 | SG5H9 | | | 00-2297 | |
| | | | | | SG5H10 | | | 00-2298 | |
| | | | | | SG5H11 | | | 00-2299 | |
| | | | | | SG5H12 | | | 00-2541 | |
| | | | | | SG5H805 | | | 00-2542 | |
| | | | | | SG5H809 | | | 00-2545 | |
| | | | | | SG5H812 | | | 00-2361 | |
| | | | | | SG14H1 | | | 00-2543 | |
| | | | | | SG14H804 | | | 00-2544 | |
| | 58 Aux & Dwnclmr SG1 | One | 7 | 7 | SG8H2 | | | 00-2317 | |
| | | | | | SG8H3 | | | 00-2318 | |
| | | | | | SG8H4 | | | 00-2319 | |
| | | | | | SG8H5 | | | 00-2320 | |
| | | | | | SG8H20 | | | 00-2321 | |
| | | | | | SG8H901 | | | 00-2436 | |
| | | | | | SG8H903 | | | 00-2437 | |

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 1.20 | 59 Aux & Dwmcmr SG2 | One | 6 | 6 | AF6H1 | | | 99-2137 | |
| | | | | | SG11H4 | | | 99-2507 | Expansion |
| | | | | | SG11H8 | | | 99-2040 | |
| | | | | | SG11H9 | | | 99-2041 | |
| | | | | | SG11H10 | | | 99-2042 | |
| | | | | | SG11H11 | | | 99-2043 | Reject |
| | | | | | | | | 99-2508 | Re-exam |
| | | | | | SG11H12 | | | 99-2044 | |
| | | | | | SG11H16 | | | 99-2509 | Expansion |
| | | | | | SG200H9 | | | 99-2086 | |
| | | | | | SG200H13 | | | 99-2521 | PSE |
| | 60 Dwncmr FW SG1 | One | 1 | 1 | SG200H14 | | | 99-2483 | PSE |
| | | | | | SG203H13 | | | 99-2519 | PSE |
| | | | | | SG203H14 | | | 99-2520 | PSE |
| | 61 Dwncmr FW SG2 | One | 0 | 0 | | | | | |
| | 62 Aux FW SG1 | One | 1 | 1 | AF4H3 | | | 99-2136 | |
| | 63 Aux FW SG2 | One | 2 | 2 | AF6H2 | | | 99-2138 | |
| | | | | | AF16H1 | | | 99-2139 | |
| | 64 Blowdown SG1 | One | 12 | 12 | SG39H10 | | | 00-2049 | |
| | | | | | SG39H11 | | | 00-2050 | support deleted |
| | | | | | SG39H12 | | | 00-2051 | |
| | | | | | SG39H13 | | | 00-2052 | support deleted |
| | | | | | SG39H14 | | | 00-2063 | support deleted |
| | | | | | SG39H15 | | | 00-2064 | |
| | | | | | SG39H16 | | | 00-2065 | |
| | | | | | SG39H17 | | | 00-2053 | support deleted |
| | | | | | SG39H26 | | | 00-2054 | |
| | | | | | SG53H1 | | | 00-2071 | support deleted |
| | | | | | SG53H2 | | | 00-2072 | support deleted |
| | | | | | SG53H7 | | | 99-2161 | support deleted |
| | | | | | SG53H924 | | | 00-2062 | |
| | 65 Blowdown SG 2 | One | 12 | 12 | SG48H2 | | | 00-2066 | support deleted |
| | | | | | SG48H3 | | | 00-2055 | support deleted |
| | | | | | SG48H4 | | | 00-2056 | |
| | | | | | SG48H19 | | | 00-2057 | support deleted |
| | | | | | SG48H20 | | | 00-2058 | support deleted |
| | | | | | SG48H21 | | | 00-2059 | |
| | | | | | SG48H925 | | | 00-2060 | |
| | | | | | SG52H1 | | | 00-2067 | support deleted |
| | | | | | SG52H2 | | | 00-2068 | support deleted |
| | | | | | SG52H3 | | | 00-2069 | support deleted |
| | | | | | SG52H4 | | | 00-2070 | |
| | | | | | SG52H923 | | | 00-2061 | |
| | 70 LPSI Suction A | One | 1 | 1 | SI67H4 | | | 99-2223 | |
| | 71 LPSI Discharge A | One | 1 | 1 | SI87H11 | | | 99-2039 | |
| | 76 CS Suction A | One | 1 | 1 | SI9H4 | | | 99-2195 | |
| | 77 CS Discharge A | One | 4 | 4 | SI79H1 | | | 99-2169 | |
| | | | | | SI79H2 | | | 99-2101 | |
| | | | | | SI79H3 | | | 99-2102 | |
| | | | | | SI79H4 | | | 99-2170 | |

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 1.20 | 79 CS Suction B | One | 3 | 3 | SI34H1 | | | 99-2162 | |
| | | | | | SI34H2 | | | 99-2163 | |
| | | | | | SI34H3 | | | 99-2164 | |
| | 80 CS Discharge B | One | 3 | 3 | SI119H7 | | | 99-2267 | |
| | | | | | SI119H8 | | | 99-2262 | |
| | | | | | SI119H9 | | | 99-2268 | |
| | 82 SD Cooling A | One | 2 | 2 | SI78H5 | | | 99-2093 | |
| | | | | | SI79H10 | | | 99-2096 | |
| | 83 SD Cooling A | One | 4 | 4 | SI87H9 | | | 99-2095 | |
| | | | | | SI89H1 | | | 99-2085 | |
| | | | | | SI89H2 | | | 99-2098 | |
| | | | | | SI89H3 | | | 99-2097 | |
| | 85 SD Cooling B | One | 3 | 3 | SI119H10 | | | 99-2185 | |
| | | | | | SI123H6 | | | 99-2186 | |
| | | | | | SI123H7 | | | 99-2187 | |
| | 86 SD Cooling B | One | 3 | 3 | SI129H10 | | | 99-2188 | |
| | | | | | SI129H11 | | | 99-2189 | |
| | | | | | SI129H12 | | | 99-2190 | |
| | | | | | | | | 99-2530 | |
| | 88 East Wrap | One | 8 | 8 | SI72H11 | | | 99-2317 | |
| | | | | | SI72H13 | | | 99-2316 | |
| | | | | | SI72H14 | | | 99-2315 | |
| | | | | | SI72H21 | | | 00-2186 | |
| | | | | | SI72H22 | | | 00-2187 | |
| | | | | | SI73H1 | | | 00-2188 | |
| | | | | | SI73H2 | | | 00-2189 | |
| | 89 East Wrap | One | 4 | 4 | SI73H3 | | | 00-2190 | |
| | | | | | SI194H12 | | | 99-2275 | |
| | | | | | SI194H13 | | | 99-2274 | |
| | | | | | SI194H14 | | | 99-2273 | |
| | | | | | SI194H23 | | | 99-2309 | |
| | 91 West Wrap | One | 7 | 7 | | | | 99-2331 | Reject Re-exam |
| | | | | | SI70H9 | | | 99-2165 | |
| | | | | | SI70H10 | | | 99-2166 | |
| | | | | | SI70H11 | | | 99-2114 | |
| | | | | | SI70H12 | | | 99-2167 | |
| | | | | | SI70H13 | | | 99-2115 | |
| | | | | | SI70H15 | | | 99-2168 | |
| | 92 West Wrap | One | 5 | 5 | SI70H16 | | | 99-2116 | |
| | | | | | SI239H3 | | | 99-2172 | |
| | | | | | SI241H12 | | | 99-2173 | |
| | | | | | SI241H14 | | | 99-2174 | |
| | | | | | SI241H15 | | | 99-2175 | |
| | 94 LPSI A | One | 3 | 3 | SI241H21 | | | 99-2176 | |
| | | | | | SI89H7 | | | 99-2399 | |
| | | | | | SI89H8 | | | 99-2400 | |
| | | | | | SI89H9 | | | 99-2401 | |
| | 95 LPSI B | One | 6 | 6 | SI72H8 | | | 99-2402 | |
| | | | | | SI72H10 | | | 99-2403 | |
| | | | | | SI134H11 | | | 99-2404 | |
| | | | | | SI134H12 | | | 99-2405 | |

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 1.20 | 96 LPSI to Loop 1A | One | 3 | 3 | SI194H3 | | | 99-2406 | support deleted |
| | | | | | SI194H5 | | | 99-2407 | |
| | | | | | SI194H6 | | | 99-2408 | Expansion |
| | | | | | SI202H7 | | | 99-2467 | |
| | 97 LPSI to Loop 1B | One | 10 | 10 | SI202H8 | | | 99-2468 | support deleted |
| | | | | | SI202H9 | | | 99-2469 | support deleted |
| | | | | | SI220H8 | | | 00-2438 | |
| | | | | | SI220H9 | | | 99-2470 | |
| | | | | | SI220H10 | | | 99-2471 | |
| | | | | | SI220H11 | | | 99-2472 | support deleted |
| | | | | | SI220H12 | | | 99-2473 | |
| | | | | | SI220H13 | | | 99-2474 | |
| | | | | | SI220H14 | | | 99-2475 | support deleted |
| | | | | | SI220H15 | | | 99-2476 | |
| | | | | | SI220H19 | | | 99-2480 | |
| | | | | | SI220H22 | | | 99-2481 | support deleted |
| | 98 LPSI to Loop 2A | One | 2 | 2 | SI155H5 | | | 99-2100 | |
| | | | | | SI155H6 | | | 99-2084 | |
| | 100 LPSI A Suction | One | 2 | 2 | SI241H19 | | | 99-2340 | |
| | | | | | SI369H1 | | | 99-2341 | |
| | 101 LPSI B Suction | One | 0 | 0 | SI194H26 | | | 99-2443 | Expansion |
| | 102 SI Suction A | One | 6 | 6 | SI307H2 | | | 00-2301 | |
| | | | | | SI307H3 | | | 00-2302 | |
| | | | | | SI307H4 | | | 00-2303 | support deleted |
| | | | | | SI307H5 | | | 00-2258 | |
| | | | | | SI307H8 | | | 00-2257 | |
| | | | | | SI307H15 | | | 00-2304 | |
| | 103 Refuel Suction A | One | 6 | 6 | CH142H13 | | | 99-2409 | |
| | | | | | CH142H14 | | | 99-2411 | |
| | | | | | CH142H15 | | | 99-2412 | |
| | | | | | CH142H19 | | | 99-2413 | |
| | | | | | CH142H22 | | | 99-2414 | |
| | | | | | CH424H1 | | | 99-2415 | |
| | 104 SI Suction B | One | 7 | 7 | SI33H1 | | | 99-2460 | support deleted |
| | | | | | SI33H2 | | | 99-2461 | support deleted |
| | | | | | SI33H3 | | | 99-2462 | |
| | | | | | SI308H5 | | | 99-2463 | |
| | | | | | SI308H8 | | | 99-2464 | |
| | | | | | SI308H10 | | | 99-2465 | support deleted |
| | | | | | SI308H11 | | | 99-2466 | |
| | 105 Refuel Suction B | One | 7 | 7 | CH149H9 | | | 00-2168 | |
| | | | | | CH149H10 | | | 00-2169 | |
| | | | | | CH149H12 | | | 00-2170 | |
| | | | | | CH149H13 | | | 00-2171 | |
| | | | | | CH149H14 | | | 00-2172 | |
| | | | | | | | | 00-2559 | |
| | | | | | CH149H21 | | | 00-2173 | |
| | | | | | CH149H28 | | | 00-2174 | |
| | 106 HPSI A | One | 8 | 8 | SI99H1 | | | 00-2265 | |
| | | | | | SI99H2 | | | 00-2266 | |
| | | | | | SI100H1 | | | 00-2267 | |

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 1.20 | 107 HPSI B | One | 6 | 6 | SI100H2 | | | 00-2268 | |
| | | | | | SI100H3 | | | 00-2269 | |
| | | | | | SI100H5 | | | 00-2270 | |
| | | | | | SI100H34 | | | 00-2271 | |
| | | | | | SI106H1 | | | 00-2272 | |
| | | | | | SI107H3 | | | 00-2093 | |
| | | | | | SI107H11 | | | 00-2094 | |
| | | | | | SI107H12 | | | 00-2095 | |
| | | | | | SI112HC | | | 00-2560 | |
| | | | | | SI112HG | | | 00-2561 | |
| | 108 HPSI Discharge | One | 11 | 11 | SI112HH | | | 00-2096 | |
| | | | | | SI100H22 | | | 99-2416 | |
| | | | | | SI100H23 | | | 99-2417 | |
| | | | | | SI100H24 | | | 99-2418 | |
| | | | | | SI100H25 | | | 99-2419 | |
| | | | | | SI100H26 | | | 99-2420 | |
| | | | | | SI100H27 | | | 99-2421 | |
| | | | | | SI100H28 | | | 99-2422 | |
| | | | | | SI100H29 | | | 99-2423 | |
| | | | | | SI100H31 | | | 99-2424 | |
| | 109 HPSI Dischrg | One | 7 | 7 | SI100H32 | | | 99-2425 | |
| | | | | | SI100H35 | | | 99-2426 | |
| | | | | | SI107H13 | | | 00-2422 | |
| | | | | | SI107H14 | | | 00-2423 | |
| | | | | | SI107H15 | | | 00-2474 | |
| | | | | | SI107H16 | | | 00-2475 | |
| | | | | | SI107H21 | | | 00-2424 | |
| | | | | | SI107H47 | | | 00-2439 | |
| | | | | | SI107H50 | | | 00-2440 | |
| | 110 HPSI Dischrg | One | 7 | 7 | SI103HB | | | 00-2219 | support voided |
| | | | | | SI103HD | | | 00-2220 | |
| | | | | | SI103HE | | | 00-2221 | |
| | | | | | SI218H1 | | | 00-2215 | |
| | | | | | SI218H2 | | | 00-2216 | |
| | | | | | SI218H3 | | | 00-2217 | |
| | | | | | SI218H4 | | | 00-2218 | |
| | 111 HPSI Dischrg | One | 3 | 3 | SI100H37 | | | 00-2229 | |
| | | | | | SI100HA | | | 00-2228 | |
| | | | | | SI100HB | | | 00-2227 | |
| | 112 HPSI Dischrg | One | 3 | 3 | SI176H1 | | | 00-2155 | |
| | | | | | SI176H2 | | | 00-2443 | |
| | | | | | SI176H3 | | | 00-2156 | |
| | 113 HPSI Discharge | One | 5 | 5 | SI107H22 | | | 00-2204 | |
| | | | | | SI107H24 | | | 00-2205 | |
| | | | | | SI157H2 | | | 00-2206 | |
| | | | | | SI157H3 | | | 00-2207 | |
| | | | | | SI157H4 | | | 00-2208 | |
| | F 1.40 | One | 2 | 2 | 41-41 | | | 00-2323 | |
| | | | | | 41-42 | | | 00-2323 | |
| | | | | | | | | 00-2185 | |

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 1.40 | 72 LPSI PUMP A | One | 3 | 3 | 72-3A | | | 99-2482 | |
| | | | | | 72-3B | | | 99-2482 | |
| | | | | | 72-3C | | | 99-2482 | |
| | 116 HPSI A Pump | One | 4 | 4 | 116-1A | | | 00-2554 | |
| | | | | | 116-1B | | | 00-2554 | |
| | | | | | 116-1C | | | 00-2554 | |
| | | | | | 116-1D | | | 00-2554 | |

APPENDIX B

INSERVICE INSPECTION CODE LIMITATIONS

REFUELING OUTAGE NUMBER NINE

CODE LIMITATIONS

| <u>ASME ITEM</u> | <u>ZONE/COMPONENT</u> | <u>ITEM ID</u> | <u>REPORT #</u> |
|------------------|-----------------------|----------------|-----------------|
| C 3.20 | 113 HPSI Discharge | 2SI107H22 | 00-2214 |

LIMITATION

The welded attachment was inside wall penetration making 1 lug entirely inaccessible. 46% coverage.

| <u>ASME ITEM</u> | <u>ZONE/COMPONENT</u> | <u>ITEM ID</u> | <u>REPORT #</u> |
|------------------|-----------------------|----------------|-----------------|
| C 3.30 | 116 HPSI Pump A | 116-1B | 00-2558 |
| | | 116-1C | 00-2558 |

LIMITATION

The bottom side of these attachments were inaccessible due to pump support configuration. 72% coverage of each support.

| <u>ASME ITEM</u> | <u>ZONE/COMPONENT</u> | <u>ITEM ID</u> | <u>REPORT #</u> |
|------------------|-----------------------|----------------|-------------------------|
| B 9.11 | 22 SD Cooling B | 22-11 | 00-2244,00-2245 |
| | 23 SI 1A | 23-4 | 00-2240,00-2241 |
| C 5.11 | 63 Aux Feedwater | 63-4 | 00-2273,00-2274 |
| | 91 West Wrap | 77-7 | 00-2326,00-2327 |
| | 91 West Wrap | 77-14 | 00-2260,00-2307,00-2325 |
| | 102 SI Suction A | 84-12 | 00-2325,00-2326 |
| | 104 SI Suction B | 85-46 | 00-2390,00-2391 |
| C 5.21 | 106 HPSI A | 106-1 | 00-2485,00-2487 |
| | 106 HPSI A | 106-21 | 00-2481,00-2482 |
| | 107 HPSI Discharge | 107-11 | 00-2242,00-2243 |
| | 115 HPSI Loop 2A & 2B | 115-13 | 00-2334,00-2389 |

LIMITATION

Single sided austenitic examinations estimated at 50% coverage based on Appendix VIII PDI demonstration.

APPENDIX C

FORM
NIS-1

APS

NIS-1 FORM

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1. OWNER ARIZONA PUBLIC SERVICE COMPANY, ET AL
ADDRESS P.O. BOX 52034 PHOENIX, ARIZONA
2. PLANT PALO VERDE NUCLEAR GENERATING STATION
ADDRESS 5801 S WINTERSBURG RD TONOPAH, ARIZONA
3. UNIT NUMBER: 2
4. OWNERS' CERTIFICATE OF AUTHORIZATION
5. COMMERCIAL SERVICE DATE: September 19, 1986
6. COMPONENTS INSPECTED:

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

THE ITEMS EXAMINED, WITH EXAMINATION REPORT NUMBERS, ARE LISTED IN APPENDIX A. ALL OF THE EXAMINATION REPORT NUMBERS FOR THE NINTH REFUELING ARE NUMBERED WITH A 00-2XXX REPORT NUMBER AND ARE IN BOLD PRINT.

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 9-21-00 TO 11-5-00
8. INSPECTION INTERVAL FROM 3-18-97 TO 3/17/07
9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.
 THE ITEMS EXAMINED, WITH EXAMINATION REPORT NUMBERS, ARE LISTED IN APPENDIX A. THE EXAMINATIONS ARE LISTED BY ASME ITEM NUMBERS WITH CORRESPONDING EXAMINATION REPORT NUMBERS. ALL OF THE EXAMINATION REPORT NUMBERS FOR THE NINTH REFUELING ARE NUMBERED WITH A 00-2XXX REPORT NUMBER AND ARE IN BOLD PRINT.

10. ABSTRACT OF CONDITIONS NOTED
 THERE ARE NO OUTSTANDING REJECTABLE ITEMS IN UNIT 2. THE REJECTABLE ITEMS DURING THIS OUTAGE CONSISTED OF 5 ITEMS. THREE REJECTED CLASS 1 BOLTED CONNECTIONS WHERE LEAKAGE WAS DETECTED. TWO NOZZLES WERE REJECTED DUE TO EVIDENCE OF LEAKAGE FOUND AS AN AUGMENTED VISUAL EXAMINATION AND NOT AS A RESULT OF AN ISI EXAMINATION. THE REJECTED COMPONENTS ARE LISTED IN SECTION 7.0 REPAIRS AND REPLACEMENTS OF THIS REPORT.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN
 THE REJECTED CLASS 1 BOLTED CONNECTIONS WERE DISASSEMBLED BY A WORK ORDER AND RE-EXAMINED. ONE COMPONENT WAS EVALUATED AS ACCEPTABLE PER RELIEF REQUEST NUMBER 11 AND 12 WITH NO REWORK.
 THE REJECTED NOZZLES WERE REPAIRED AND REEXAMINED UNDER SEPARATE WORK ORDERS WITH THEIR OWN NIS-2 FORMS.
 SEVERAL REPAIRS AND REPLACEMENTS HAVE BEEN PERFORMED SINCE COMMERCIAL OPERATIONS DUE TO ROUTINE AND CORRECTIVE MAINTENANCE. WORK WAS PERFORMED IN ACCORDANCE WITH ASME SECTION XI AND APS WORK CONTROL PROCEDURES. ALL DOCUMENTS ARE MAINTAINED AT PALO VERDE.

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 01/02/01 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Michael Melker

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 9-21-00 TO 11-5-00, 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 Robt S. Johnston COMMISSIONS NB 9685 "N" "I" Az 264
 NAT'L BOARD, STATE, PROVINCE
 DATE JANUARY 2, 2001

APPENDIX D
NIS-2 FORMS

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEB14 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 211318
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description Replace Defective Pressurizer Heater, Make Fillet Weld between Pressurizer Nozzle and new Heater Sleeve.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Electrical portion of the heater failed. No failure in ASME pressure retaining boundary RPI Indap 8/31/00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III Cl. 1 '71 Edition '73 RFP 8/31/00 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Class 1, '74 Edition, '75 Winter Addenda
 14. ASME Section XI Code/Edition ASME Section III, Class 1, 1992 Edition, 1992 Addenda

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

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
N/A Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.
KVS Initial 8/31/00 Date
KVS Initial 8/31/00 Date
 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|------------|----------|------------|
| Heater | 44450049 | 7K | | 452693 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner Karl V. Savage 8/31/00 Signature Date Print Name Karl V. Savage
 20. ISI Engineer RPI Indap 8/31/00 Signature Date Print Name Ramakant P. Indap
 21. ANII Robert G. Hogstrom 8-31-00 Signature Date Print Name Robert G. Hogstrom

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/05/00
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 211318
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME Section III, Class 1
5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/73 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Heater | Watlow | 7K | NA | 2MRCEB14 | 2000 | Replacement | Do |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

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# 211318

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date 2/12

Signed

[Signature]

ISI Engineer

Date 10-22-00

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-22-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspector's Signature

Commissions

NB 9685 "N" "I" AZ 264

National Board, State, Province, and Endorsements

Date

10-22-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0668 2. Code Class ASME SECTION III CL2
 3. Item Description 2 INCH GLOBE VALVE (BORG-WARNER)
 4. N-5 Package Number 2SI09-3 5. W.O. Number 218846
 6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL RISING NON-ROTATING STEM IAW DMWO 218845. REMOVE ORIGINAL VALVE INTERNALS AND INSTALL STEM-MOD-KIT. BORG-WARNER VALVE BODY S/N 49610 BLT 1979, IS RE-USED.

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 CODE BOUNDARY. NEW OPERATOR AND NON-ROTATING STEM ARE BEING INSTALLED TO INCREASE MARGIN AND MINIMIZE MAINTENANCE COSTS. (THE SMC-04 OPERATOR IS OBSOLETE) REFER TO DMWO 218845 FOR MORE INFO.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 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
LEO 9/13/00 Initial Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
LEO 9/13/00 Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.

LEO 9/13/00 Initial Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
LEO 9/13/00 Initial Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|---------------------------|----------|---------------|
| BONNET | 2000372 | 331624 | 36938 | 00222821-0001 |
| DISC | 2000367 | 321975 S/N 172 | M873E | 00222821-0001 |
| | | 321976C S/N 172 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner [Signature] 9/13/00 Signature Date Print Name CHARLES J. LARSON
 20. ISI Engineer [Signature] 9/29/00 Signature Date Print Name R.P. JINDAP
 21. ANII [Signature] 9-29-00 Signature Date Print Name R.G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/01/00
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 218846
Address Work Order Number

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

Authorization No. N/A

SAME AS ABOVE (ITEM #2) Expiration Date N/A
Address

4. Identification of System SI ASME CL II

5. (a) Applicable Construction Code SECTION III CL2 19 74 Edition, 75W Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| BONNET | BORG-WARNER | 331624 | N/A | 2jsibuv0668 | 97 | Replacement | Yes |
| DISC | BORG-WARNER | S/N 172 | N/A | 2jsibuv0668 | 97 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REPLACE BONNET AND DISC IAW DMWO 218845

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 UNDER DIWO 218846, INSTALL STEM-MOD-KIT AND SMB-00 OPERATOR IAW DMWO 218845. THIS REMOVES THE ORIGINAL VALVE INTERNALS AND INSTALLS A NEW STEM & DISC ASSEMBLY, BONNET & YOKE. BODY TO BONNET IS SEAL WELDED. BORG-WARNER VALVE BODY S/N 49610, BLT 1979, IS RE-USED.

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 Sr ISI Engineer Date 10/23/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-29-00 to 10-24-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date OCTOBER 24, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0665 2. Code Class ASME SECTION III CL2
 3. Item Description 2 INCH GLOBE VALVE (BORG-WARNER)
 4. N-5 Package Number 2SI09-3 5. W.O. Number 218847
 6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL RISING NON-ROTATING STEM IAW DMWO 218845. REMOVE ORIGINAL VALVE INTERNALS AND INSTALL STEM-MOD-KIT. BORG-WARNER VALVE BODY S/N 53072 BLT 1979, IS RE-USED.

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 CODE BOUNDARY. NEW OPERATOR AND NON-ROTATING STEM ARE BEING INSTALLED TO INCREASE MARGIN AND MINIMIZE MAINTENANCE COSTS. (THE SMC-04 OPERATOR IS OBSOLETE) REFER TO DMWO 218845 FOR MORE INFO.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 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
ELC 9/13/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
ELC 9/13/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
ELC 9/13/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
ELC 9/13/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|----------------------------|----------|---------------|
| BONNET | 2000372 | 322813A S/N 18 | 8656124 | 00171372-0001 |
| DISC | 2000367 | 321976C S/N 202 | M872C | 00171372-0001 |
| | | 321976B S/N 202 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner [Signature] 9/13/00 Print Name CHARLES J. LARSON
Signature Date
 20. ISI Engineer [Signature] 9/24/00 Print Name R. P. INDAP
Signature Date
 21. ANII [Signature] 9-29-00 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 09/01/00
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 218847
Address Work Order Number

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

4. Identification of System SI ASME CL II

5. (a) Applicable Construction Code SECTION III CL2 19 74 Edition, 75W Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| BONNET | BORG-WARNER | S/N 18 | N/A | 2jsibuv0665 | 97 | Replacement | Yes |
| DISC | BORG-WARNER | S/N 202 | N/A | 2jsibuv0665 | 97 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REPLACE BONNET AND DISC IAW DMWO 218845

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 UNDER DIWO 218847, INSTALL STEM-MOD-KIT AND SMB-00 OPERATOR IAW DMWO 218845. THIS REMOVES THE ORIGINAL VALVE INTERNALS AND INSTALLS A NEW STEM & DISC ASSEMBLY, BONNET & YOKE. BODY TO BONNET IS SEAL WELDED. BORG-WARNER VALVE BODY S/N 53072, BLT 1979, IS RE-USED.

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 NIA

Certificate of Authorization No. NIA Expiration Date _____

Signed Alan Monow Sr ISI Engineer Date 10/23/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-29-00 to 10-24-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 24, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0200 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231241
 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 PER WORK ORDER 231241.

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#14537.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|--------------|------------|----------|------------|
| 2JRCEPSV0200 | APN#45003560 | BY14537 | N/A | |
| VALVE | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
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19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0201 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231242
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE DRAIN NIPPLE AND VALVE PER W.O. 231242.

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 1971 EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION SUMMER '75 ADDENDA AS PER THE SECTION XI 97 EDITION 96 ADDENDA REQUIREMENTS. RECONCILIATION AS PER MEE #02504. 95 10-10-00

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

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

MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date

MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date

MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
 Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|--------------|------------|----------|------------|
| 2JRCEPSV0201 | APN#45003560 | BQ07679 | N/A | |
| VALVE | | | | |
| NIPPLE | APN#43571055 | N/A | 461449 | |
| CAP | APN#43550622 | N/A | HYD | |
| | | | | |
| | | | | |
| | | | | |

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
 Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
 Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
 Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0202 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231243
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE DRAIN NIPPLE AND VALVE PER W.O. 231243.

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 1971
EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION SUMMER '75 ADDENDA
AS PER THE SECTION XI 97 EDITION 96 ADDENDA REQUIREMENTS. RECONCILIATION AS PER
MEE #02504. 95-100 109-00

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|--------------|------------|----------|------------|
| 2JRCEPSV0202 | APN#45003560 | BQ07678 | N/A | |
| VALVE | | | | |
| NIPPLE | APN#43571055 | N/A | 461449 | |
| CAP | APN#43550622 | N/A | HYD | |
| | | | | |
| | | | | |
| | | | | |

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
 Signature Date
 20. ISI Engineer R.P. Indap 10-10-00 Print Name R.P. INDAP
 Signature Date
 21. ANII Robert G. Hogstrom 10-10-00 Print Name ROBERT G. HOGSTROM
 Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231244
 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 PER WORK ORDER W.O. 231244.

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#BY14538.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-------------|--------------|------------|----------|------------|
| 2JRCEPSV203 | APN#45003560 | BY14538 | N/A | |
| VALVE | | | | |
| | | | | |
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19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEX01 2. Code Class 1
 3. Item Description REACTOR VESSEL
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 231270
 6. Original Construction Code Edition ASME SECT. III, CL 1 1971 EDITION W'73 ADD
 7. Original Installation Code Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 8. Work Description FABRICATE AND INSTALL A NEW REACTOR VESSEL LEVEL MONITORING SYSTEM FLANGE NUT.

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 FLANGE NUT REQUIRED DUE TO THE ORIGINAL BEING LOST.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 1 1977 EDITION S'79 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
MB 10-31-00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MB 10-31-00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MB 10-31-00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MB 10-31-00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-------------|--------------|------------|----------|------------|
| ROUND STOCK | APN 43610035 | N/A | 31462 | 480633 |
| | | | | |
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| | | | | |
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19. Planner Michael B. Newell 10-31-00 Print Name MICHAEL B. NEWELL, SR.
Signature Date

20. ISI Engineer Alan Morrow 10/31/00 Print Name Alan Morrow
Signature Date

21. ANII R.G. Holstrom 10-31-00 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 10-31-00
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 231270
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 REACTOR COOLANT

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| REACTOR VESSEL | C-E | 79173 | 22513 | 2MRCEX01 | 1979 | Repaired | Yes |
| FLANGE NUT | N/A | N/A | N/A | 2MRCEX01 | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

7. Description of Work Fabricated RVLMS flange nut per drawing N001-0301-00208 and replaced lost nut.

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 231270 fabricated and installed lost flange nut for the reactor vessel level monitoring system.

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. Brown
Owner or Owner's Designee, Title

Date 10/31/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-31-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. L. Brown
Inspector's Signature

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

Date OCTOBER 31, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEL032 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 233220
 6. Original Construction Code Edition ASME SETION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1974 ADDENDA ^{6 SEP 10-24-00} ₁₀₋₂₄₋₀₀
 8. Work Description Half nozzle modification to pressure measurement nozzle 2JRCCPDT115C, and RTD nozzle plugging of spare RTD's 2JRCETW0111HD and 2JRCETW0111HB per the requirements of engineering DMWO 219026 and EDC 2000-00227.

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 to be performed per engineering requirements specified in DMWO 219026 and EDC 2000-00227.

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

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 8/30/00 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Initial 8/30/00 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 8/30/00 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 8/30/00 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|---------------|--------------|------------|-----------------|-------------------|
| 2JRCETW0111HA | APN 00062036 | N/A | <u>NX0911HK</u> | MR# <u>460015</u> |
| (RTD Plug) | ----- | ----- | ----- | ----- |
| 2JRCETW0111HC | APN 00062036 | N/A | <u>NX0911HK</u> | MR# <u>460015</u> |
| (RTD Plug) | ----- | ----- | ----- | ----- |
| 2JRCCPDT115C | APN 00062036 | N/A | <u>NX0911HK</u> | MR# <u>460015</u> |
| (Half Nozzle) | ----- | ----- | ----- | ----- |
| | | | | |
| | | | | |

19. Planner Herbert L. Green 8/30/00 Signature Date Print Name Herbert L. Green
 20. ISI Engineer R. P. INDAP 8/31/00 Signature Date Print Name R. P. INDAP
 21. ANII R. G. HOOSTON 8-31-00 Signature Date Print Name R. G. HOOSTON

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 08/30/00
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 233220
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, AZ 85072-7529 Expiration Date N/A
Address
4. Identification of System Reactor Coolant System, Line number 2PRCEL032, Spool 001.
5. (a) Applicable Construction Code ASME Section III 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RCS HL #1 | Combustion Eng. | 771-301 | N/A | 2PRCEL032 | 1980 | Repaired | Yes |
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7. Description of Work Perform ASME Class 1 welds (3) per DMWO 219029, Hot Leg 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 to pressure measurement nozzle for 2JRCCPDT115C and RTD
nozzle plugging modifications to spare RDT's 2JRCETW0111HA and 2JRCETW0111HC.
Modifications performed per engineering requirements specified in DMWO 219026 and EDC
2000-00227.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Consulting Met. Engineer Date 10-24-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-24-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 10-24-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEL032 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 233221
 6. Original Construction Code Edition ASME SETION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1974 ADDENDA
 8. Work Description RTD nozzle plugging modification of 2JRCETW0111HD and 2JRCETW0111HB per the requirements of engineering DMWO 219026 and EDC 2000-00228.

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 to be performed per engineering requirements specified in DMWO 219026 and EDC 2000-00228.

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

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 8/30/00 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Initial 8/30/00 If required, include a step in the W.O. for ISI & ANII Inspection.

- Initial 8/30/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 8/30/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|---------------|--------------|------------|-----------------|-------------------|
| 2JRCETW0111HD | APN 00062036 | N/A | <u>NX0911HK</u> | MR# <u>460015</u> |
| (RTD Plug) | ----- | ----- | ----- | ----- |
| 2JRCETW0111HB | APN 00062036 | N/A | <u>NX0911HK</u> | MR# <u>460015</u> |
| (RTD Plug) | ----- | ----- | ----- | ----- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner Herbert L. Green 8/30/00 Print Name Herbert L. Green
 Signature _____ Date _____
 20. ISI Engineer R. P. INDAP 8/31/00 Print Name R. P. INDAP
 Signature _____ Date _____
 21. ANII R. G. HOUSTON 8/31/00 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 08/30/00
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 233221
Address Work Order Number

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

4. Identification of System Reactor Coolant System, Line number 2PRCEL032, Spool 001.

5. (a) Applicable Construction Code ASME Section III 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RCS HL #1 | Combustion Eng. | 771-301 | N/A | 2PRCEL032 | 1980 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

7. Description of Work Perform ASME Class 1 welds (2) per DMWO 219029, Hot Leg 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 RTD nozzle plugging modifications to spare RDT's 2JRCETW0111HD and 2JRCETW0111HB. Modifications performed per engineering requirements specified in DMWO 219026 and EDC 2000-00228.

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. Phelan Consulting Met. Engineer Date 10-24-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-25-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 10-25-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEL063 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 233222
 6. Original Construction Code Edition ASME SETION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1974 ADDENDA
 8. Work Description RTD nozzle plugging modification of 2JRCETW0121HA and 2JRCETW0121HC per the requirements of engineering DMWO 219026 and EDC 2000-00229.

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 to be performed per engineering requirements specified in DMWO 219026 and EDC 2000-00229.

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

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

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

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

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|---------------|--------------|------------|----------|------------|
| 2JRCETW0121HA | APN 00062036 | N/A | NX0911HK | MR# 460015 |
| (RTD Plug) | ----- | ----- | ----- | ----- |
| 2JRCETW0121HC | APN 00062036 | N/A | NX0911HK | MR# 460015 |
| (RTD Plug) | ----- | ----- | ----- | ----- |
| | | | | |
| | | | | |
| | | | | |

19. Planner Herbert L. Green 8/30/00 Print Name Herbert L. Green
 Signature _____ Date _____
 20. ISI Engineer R. P. Indat 8/31/00 Print Name R. P. INDAT
 Signature _____ Date _____
 21. ANII R. G. Hogstrom 8-31-00 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 08/30/00
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 233222
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, AZ 85072-7529 Expiration Date N/A
Address

4. Identification of System Reactor Coolant System, Line number 2PRCEL063, Spool 001.
5. (a) Applicable Construction Code ASME Section III 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RCS HL #2 | Combustion Eng. | 771-501 | N/A | 2PRCEL063 | 1980 | Repaired | Yes |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Perform ASME Class 1 welds (2) per DMWO 219029, Hot Leg Nozzle Modification.8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐Other ☐Pressure psiTest 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 RTD nozzle plugging modifications to spare RDT's 2JRCETW0121HA and 2JRCETW0121HC. Modifications performed per engineering requirements specified in DMWO 219026 and EDC 2000-00229.

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. Bordley, Consulting Met. Engineer Date 10-24-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-25-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Bordley
Inspector's Signature

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

Date 10-25-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEL063 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 233223
 6. Original Construction Code Edition ASME SETION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1974 ADDENDA
 8. Work Description RTD nozzle plugging modification of 2JRCETW0121HD and 2JRCETW0121HB per the requirements of engineering DMWO 219026 and EDC 2000-00230.

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 to be performed per engineering requirements specified in DMWO 219026 and EDC 2000-00230.

11. Repair/Replacement Work Organization Arizona Public Service

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

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

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

15. Preservice Inspection Required.

☐ YES

☒ NO

Initial 8/30/00
Date

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

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

Initial 8/30/00
Date

If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 8/30/00
Date

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

Initial 8/30/00
Date

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

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|---------------|--------------|------------|-----------------|-------------------|
| 2JRCETW0121HD | APN 00062036 | N/A | <u>NX0911HK</u> | MR# <u>460015</u> |
| (RTD Plug) | ----- | ----- | ----- | ----- |
| 2JRCETW0121HB | APN 00062036 | N/A | <u>NX0911HK</u> | MR# <u>460015</u> |
| (RTD Plug) | ----- | ----- | ----- | ----- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner

Signature
8/30/00
Date

Print Name Herbert L. Green

20. ISI Engineer

Signature
8/31/00
Date

Print Name R. P. INDAP

21. ANII

Signature
8-31-00
Date

Print Name R.G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/30/00
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 233223
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, AZ 85072-7529 Expiration Date N/A
Address
4. Identification of System Reactor Coolant System, Line number 2PRCEL063, Spool 001.
5. (a) Applicable Construction Code ASME Section III 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| RCS HL #2 | Combustion Eng. | 771-501 | N/A | 2PRCEL063 | 1980 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Perform ASME Class 1 welds (2) per DMWO 219029, Hot Leg 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 RTD nozzle plugging modifications to spare RDT's 2JRCETW0121HB and 2JRCETW0121HD. Modifications performed per engineering requirements specified in DMWO 219026 and EDC 2000-00230.

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 RP Fordap Consulting Met. Engineer Date 10-24-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-25-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 10-25-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0200 2. Code Class 1
3. Item Description PRESSURIZER SAFETY RELIEF VALVE
4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 240046
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 TESTING AND REWORK PER WORK ORDER W.O. 240046.

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#BY14537. Replacements are part of routine maintenance RPR
10-13-00

11. Repair/Replacement Work Organization WYLE LAB WESTERN SERVICE CENTER
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/13/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/13/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/13/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|----------------|--------------|------------|----------|-------------|
| 2JRCEPSV0200 | APN#45490005 | 20339-1 | VX1474AK | PO#60257948 |
| BELLOWS | | | | |
| DISC NUT | | | 41182 | PO#60257948 |
| FLANGE | | | 223906 | PO#60257948 |
| FLANGE ADAPTER | | | 501308 | PO#60257948 |
| | | | | |
| | | | | |

19. Planner Michael B. Newell 10/13/00 Print Name MICHAEL B. NEWELL
Signature Date
20. ISI Engineer R. P. Indap 10-13-00 Print Name R. P. INDAP
Signature Date
21. ANII Robert G. Hogstrom 10-17-00 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 240046
Address Work Order Number

3. Work Performed by WYLE LAB WESTERN SERVICE CENTER Type Code Symbol Stamp None
Name
201 S. HIGHLAND SPRINGS BEAUMONT CA 92223 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC ASME SECTION III CLASS 1

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| BELLOWS | DRESSER | 20339-1 | N/A | 2JRCEPSV200 | 1998 | Replacement | No |
| DISC NUT | DRESSER | N/A | N/A | 2JRCEPSV200 | 1998 | Replacement | No |
| FLANGE | DRESSER | N/A | N/A | 2JRCEPSV200 | 1998 | Replacement | No |
| FLANGE ADAPT | DRESSER | N/A | N/A | 2JRCEPSV200 | 1998 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REPLACE VALVE BELLOWS, DISC NUT, FLANGE, & FLANGE ADAPTER.

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. 240046 VALVE HAD BELLOWS, DISC NUT, FLANGE, & FLANGE ADAPTER
REPLACE. (2JRCEPSV0200 SN#BY14537).

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 _____

Signed [Signature], Consulting met. Engineer Date 10-13-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 10-17-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date 10-17-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0201 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 240046
 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 TESTING AND REWORK PER WORK ORDER W.O. 240046.

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#BQ07679. Replacements are part of routine maintenance. RPS 10-13-00

11. Repair/Replacement Work Organization WYLE LAB WESTERN SERVICE CENTER
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/13/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 10/13/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/13/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|----------|------------|----------|--------------|
| 2JRCEPSV0201 | 45020245 | AAD19 | 1990X2 | PO#33207018 |
| DISC | | | | |
| BELLOWS | 45490005 | FX40B5045 | 94989 | PO#500236360 |
| SPINDLE | 45560002 | SA347 | 676811 | PO#33207018 |
| DISC HOLDER | 45170036 | OM3 | | PO#500236360 |
| | | | | |
| | | | | |

19. Planner Michael B. Newell 10/13/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-13-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-17-00 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 240046
Address Work Order Number

3. Work Performed by WYLE LAB WESTERN SERVICE CENTER Type Code Symbol Stamp None
Name
201 S. HIGHLAND SPRINGS BEAUMONT CA, 9222 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC ASME SECTION III CLASS 1

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| DISC | DRESSER | AAD19 | N/A | 2JRCEPSV201 | 1998 | Replacement | No |
| BELLOWS | DRESSER | FX40B5045 | N/A | 2JRCEPSV201 | 1998 | Replacement | No |
| SPINDLE | DRESSER | SA347 | N/A | 2JRCEPSV201 | 1998 | Replacement | No |
| DISC HOLDER | DRESSER | OM3 | N/A | 2JRCEPSV201 | 1998 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REPLACE VALVE DISC, BELLOWS, SPINDLE, & DISC HOLDER.

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. 240046 HAD VALVE DISC, BELLOWS, SPINDLE, & DISC HOLDER REPLACE.
(2JRCEPSV0201 SN#BQ07679).

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 _____

Signed RP Jordan Consulting Met. Eng. Date 10-13-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 10-17-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RP Jordan Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-17-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0202 2. Code Class 1
3. Item Description PRESSURIZER SAFETY RELIEF VALVE
4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 240046
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 TESTING AND REWORK PER WORK ORDER W.O. 240046.

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
AN#BQ07678. Replacements are part of routine maintenance. RPT 10-13-00

11. Repair/Replacement Work Organization WYLE LAB WESTERN SERVICE CENTER
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/13/00
Initial Date

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

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

MBN 10/13/00
Initial Date

If required, include a step in the W.O. for ISI & ANII Inspection.

MBN 10/13/00
Initial Date

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

MBN 10/13/00
Initial Date

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

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|----------|------------|----------|--------------|
| 2JRCEPSV0202 | 45020245 | ABC74 | L3181 | PO#3320718 |
| DISC | | | | |
| BELLOWS | 45490005 | FX40B5044 | 94984 | PO#500230360 |
| SPINDLE | 45560002 | A10014 | 676811 | PO#33267018 |
| BEARING | 45601845 | | | PO#60255533 |
| | | | | |
| | | | | |
| | | | | |

19. Planner Michael B. Newell 10/13/00 Print Name MICHAEL B. NEWELL
Signature Date

20. ISI Engineer R. P. Indap 10-13-00 Print Name R. P. INDAP
Signature Date

21. ANII Robert G. Hogstrom 10-17-00 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 240046
Address Work Order Number
3. Work Performed by WYLE LAB WESTERN SERVICE CENTER Type Code Symbol Stamp None
Name
Authorization No. N/A
201 S. HIGHLAND SPRINGS BEAUMONT CA, 9222 Expiration Date N/A
Address
4. Identification of System RC ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| DISC | DRESSER | ABC74 | N/A | 2JRCEPSV202 | 1998 | Replacement | No |
| BELLOWS | DRESSER | FX40B5044 | N/A | 2JRCEPSV202 | 1998 | Replacement | No |
| SPINDLE | DRESSER | A10014 | N/A | 2JRCEPSV202 | 1998 | Replacement | No |
| BEARING | DRESSER | 45001845 | N/A | 2JRCEPSV202 | 1998 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REPLACE VALVE DISC, BELLOWS, SPINDLE, & BEARING.

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. 240046 VALVE HAD REPLACE VALVE DISC, BELLOWS, SPINDLE, & BEARING.
(2JRCEPSV0202 SN#BQ07678).

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 _____

Signed

Robert J. Dwyer Consulting Met. Eng.
Owner or Owner's Designee, Title

Date 10-13-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 10-17-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert J. Dwyer
Inspector's Signature

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

Date 10-17-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0203 2. Code Class 1
3. Item Description PRESSURIZER SAFETY RELIEF VALVE
4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 240046
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 TESTING AND REWORK PER WORK ORDER W.O. 240046.

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#BY14538. Replacement is a part of routine maintenance. RBT 10-13-00

11. Repair/Replacement Work Organization WYLE LAB WESTERN SERVICE CENTER
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/13/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/13/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/13/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|--------------|------------|----------|------------|
| 2JRCEPSV0203 | APN#43550622 | N/A | HYD | 470526 |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |

19. Planner Michael B. Newell 10/13/00 Print Name MICHAEL B. NEWELL
Signature Date
20. ISI Engineer R. P. Indap 10-13-00 Print Name R. P. INDAP
Signature Date
21. ANII Robert G. Hogstrom 10-17-00 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 240046
Address Work Order Number

3. Work Performed by WYLE LAB WESTERN SERVICE CENTER Type Code Symbol Stamp None
Name
Authorization No. N/A
201 S. HIGHLAND SPRINGS BEAUMONT CA, 9222 Expiration Date N/A
Address

4. Identification of System RC ASME SECTION III CLASS 1

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PIPE CAP | N/A | N/A | N/A | 2JRCEPSV203 | 2000 | Replacement | No |
| | | | | | | | |
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7. Description of Work REPLACE VALVE DRAIN NIPPLE PIPE CAP.

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. 240046 VALVE HAD PIPE CAP ON DRAIN NIPPLE REPLACE. (2JRCEPSV0203 SN#145538).

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. Hordge, Consulting Met. Eng.
Owner or Owner's Designee, Title

Date 10-13-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 10-17-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Hordge
Inspector's Signature

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

National Board, State, Province, and Endorsements

Date 10-17-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGAHV0184 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM ATMOSPHERIC DUMP VALVE
 4. N-5 Package Number 2SG04-9 5. W.O. Number 242258
 6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description DISASSEMBLE, INSPECT AND REWORK TO CORRECT A STICKING PROBLEM DURING VALVE STROKING.

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 PRESSURE BOUNDARY FAILURE. THE VALVE PLUG IS BEING REPLACED WITH A
VENDOR SPARE DUE TO A LINEAR INDICATION OF SEAT SURFACE. EXISTING PLUG WILL BE
REWORK AT A LATER TIME.

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

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 10/23/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Dmg 10/23/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
Dmg 10/23/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Dmg 10/23/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| □□□□ I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------|-------------|------------|----------|---------------|
| VALVE PLUG | 924102059XX | N/A | 28672 | ROS# 90385836 |
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19. Planner David Goodlet 10-23-00 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer Alan Morrow 10/23/00 Print Name Alan Morrow
Signature Date
 21. ANII Robert Hogstrom 10-23-00 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 10/23/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 242258
Address Work Order Number

3. Work Performed by Arizona Public Service Co. Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD., TONOPAH, AZ. 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System "SG" - MAIN STEAM

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PLUG | CCI | N/A | N/A | 2JSGAHV0184 | 1994 | Replacement | No |
| | | | | | | | |
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7. Description of Work VALVE DISASSEMBLY & REWORK TO CORRECT STICKING.

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# 242258, DISASSEMBLY OF VALVE 2JSGAHV0184 TO INSPECT FOR STICKING PROBLEM. REPLACED PLUG, SEAT RING AND PISTON RING.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Indap, Consulting Met. Engineer Date 10-31-2000
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 10-23-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Indap
Inspector's Signature

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

Date 10-31-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGAUV0500S 2. Code Class ASME III, CLASS 2
 3. Item Description 6"-900# PRESSURE SEAL GATE VALVE
 4. N-5 Package Number 2SG02-1A 5. W.O. Number 243062
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDUM
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description DISASSEMBLE VALVE FOR PACKING REPLACEMENT AND DECON. BROKE OFF BOLTS IN BONNET DURING DISASSEMBLY. FOR EASE OF REASSEMBLY WILL USE NEW UNCONTAMINATED BONNET..

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 PRESSURE BOUNDARY FAILURE. BONNET IS BEING REPLACED FOR EASE OF REASSEMBLY AND TO REDUCE CONTAMINATED COMPONENTS IN THIS VALVE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 EDITION, S'1975 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III, CLASS 2, 1974 EDITION, W'1975 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 10/28/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Dmg 10/28/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
Dmg 10/28/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Dmg 10/28/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|----------|------------|----------|------------|
| VALVE BONNET | | 229H-3 | K171 | PL0433129 |
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19. Planner David Goodlet 10-28-00 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer Alan Morrow 10/28/00 Print Name Alan Morrow
Signature Date
 21. ANII Robert Hogstrom 10-29-00 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 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 243062
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 "SG" - MAIN STEAM
5. (a) Applicable Construction Code ASME III, CLASS 2, 1974 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| BONNET | Anchor/Darling | 229H-3 | | 2JSGAUV500S | 2000 | Replacement | Yes |
| | | | | | | | |
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7. Description of Work VALVE DISASSEMBLY FOR REPACK AND DECON.
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.

ASME SECTION XI - REPAIR/REPLACEMENT

Component ID 2JEWALV0091 2. Code Class ASME SECT III CL3, 74 ED, W75 ADD
 3. Item Description ECWS SURGE TANK A LEVEL MAKEUP VALVE
 4. N-5 Package Number 2EW01-3 5. W.O. Number 00-904343
 6. Original Construction Code Edition ASME SECT III CL3, 74 ED, W75 ADD
 7. Original Installation Code Edition ASME SECT III CL3, 74 ED, W75 ADD

8. Work Description Internal rework and or replacement of valve internals to correct valve 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 IWA-4150.
No weld failure involved, or no failure in the ASME pressure boundary
R.P. Indap 2/8/00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction Code/Edition ASME SECT III CL3, 74 ED, W75 ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT III CL3, 74 ED, W75 ADD
 14. ASME Section XI Code/Edition 1992 EDITION and 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
REO 1-31-00 If required, include a step in the W.O. to perform Preservice Inspection..
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
REO 1-31-00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date

REO 1-31-00 17. Include a step in the W.O. to complete an NIS-2 Form prior to releasing the Component
 Initial Date

REO 1-31-00 18. Include a step in the W.O. to record below, all applicable numbers for repaired or
 Initial Date replaced items

| COMP ID | PART NO. | SERIAL NO. | HEAT NO. | ROS/EROS NO. |
|---------|----------|------------|----------|--------------|
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19. Planner [Signature] 1-31-00 Print Name G. Osmundson
 Signature Date
 20. ISI Engineer [Signature] 2-08-00 Print Name R. P. INDAP
 Signature Date
 21. ANII [Signature] 2-8-00 Print Name R. G. HUGSTON
 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 _____
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet _____ of _____
Address
2. Plant Palo Verde Nuclear Generating Station Unit _____
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as Above (Item #2) Expiration Date N/A
Address
4. Identification of System _____
5. (a) Applicable Construction Code ASME III, Class 3 19 74 Edition, 75 Win. Addenda -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or replacements 19 92 Edition 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced Or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| Body | | | N/A | | | | |
| bonnet | Target | | | | 1978 | Repaired | Yes |
| 2JEWALV | Rock | | | | | | |
| V0091 | | | | | | | |
| VALVE | TARGET ROCK | 76H4001-S | N/A | 2JEWALV091 | 1978 | REPLACEMENT | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Body to bonnet tackwelds after reassembly
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, (items 1 through 6 of 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.

REMARKS

Valve disassembled to correct seat leakage,
~~and reassembled~~ performed body to bonnet tack welds
 after reassembly.

CERTIFICATE OF COMPLIANCE

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

Repair or replacement

Type Code Symbol Stamp N/A

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

Signed _____ Date _____
Owner or Owner's Designee, Title

CERTIFICATION 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 & CO. of Hartford Connecticut, have inspected the Components described in this owner's report during the period _____ to _____, 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

National Board, State, Province, and Endorsements

Date _____ 20 _____

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEV236 2. Code Class ASME SECTION III CLASS 1
 3. Item Description BYPASS VALVE 2PRCEV236 FOR 2JRCEPV0100E
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 914969
 6. Original Construction Code Edition 1974 EDITION & 1976 SUMMER
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE BROKEN PLUG STEM ASSEMBLY IAW CMWO#914969.

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 REQUIRED AS IDENTIFIED BY VISUAL INSPECTION UNDER
CMWO#914619.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1976 SUMMER
 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

MB 02/11/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

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

MB 02/11/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date

MB 02/11/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date

MB 02/11/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replaced items.

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|----------------|----------|------------|----------|------------|
| PLUG/SEAT RING | 160408 | | | |
| ASSY | | | | |
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9. Planner Michael B Newell 02/11/00 Print Name MICHAEL B NEWELL
 Signature Date
 20. ISI Engineer Alan Morrow 2/11/00 Print Name Alan Morrow
 Signature Date
 21. ANII Robert G. Hogstrom 2-11-00 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 02/10/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#914969
Address Work Order Number
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. WINTERBURG RD. TONOPAH ARIZONA Expiration Date N/A
Address
4. Identification of System RC, ASME SEC III, CLASS 1
5. (a) Applicable Construction Code SEC III, CLASS 1 1974 Edition, N/A 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) |
|---------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| PLUG/SEAT RING ASSY | ITT HAMMELDAHL | | N/A | 2PRCEV236 | 1978 | Replacement | NO |
| | | | | | | | |
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7. Description of Work REPLACE PLUG/SEAT RING ASSY.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ N-416-1 ☐
 Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 914969.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed _____

Date _____

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

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

Commissions _____

Inspector's Signature _____

National Board, State, Province, and Endorsements

Date _____ 19____

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01A 2. Code Class ASME SECTION III CLASS 1
3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
4. N-5 Package Number 2RC02-4 5. W.O. Number 00924605
6. Original Construction Code Edition 1974 EDITION
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description INSTALL ADAPTER SEAL HOUSING (TOP HAT) AS DEEMED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#924605.

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 REQUIRED AFTER ENGINEERING INSPECTION.

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

MB 06/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

MB 06/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MB 06/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MB 06/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------------|-------------------|--------------|----------|------------|
| ADAPTER SEAL HS. | 8000-307-001-C007 | Q99-A861-SN7 | CS7 | N/A |
| 2MRCEP01A | | | | |
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19. Planner Michael B. Newell 06/20/00 Print Name MICHAEL B. NEWELL
Signature Date
20. ISI Engineer R. P. Indap 6/21/00 Print Name R. P. INDAP
Signature Date
21. ANII R. G. Hogstrom 6-21-00 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 06/20/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.# 924605
Address Work Order Number
3. Work Performed by APS 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 1974 Edition, N/A 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) |
|----------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| ADAPTER SEAL HOUSING | SULZER BINGHAM | Q99-A861-SN7 | N/A | 2MRCEP01A | 1984 | Replacement | |
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7. Description of Work REPLACEMENT OF ADAPTER SEAL HOUSING.
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.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 2RC02-4 5. W.O. Number 00924606
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL ADAPTER SEAL HOUSING (TOP HAT) AS DEEMED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#924606.

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 REQUIRED AFTER ENGINEERING INSPECTION.

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

- MB 06/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

- MB 06/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- MB 06/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

- MB 06/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------------|-------------------|--------------|----------|------------|
| ADAPTER SEAL HS. | 8000-307-001-C007 | Q99-A861-SN7 | CS7 | N/A |
| 2MRCEP01B | | | | |
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19. Planner Michael B. Newell 06/20/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 6/21/00 Print Name R. P. INDAP
Signature Date
 21. ANII R. G. Hogstrom 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 06/20/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.# 924606
Address Work Order Number
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. WINTERSBURG RD TONOPAH ARIZONA Expiration Date N/A
Address
4. Identification of System RC, ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 1974 Edition, N/A 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) |
|----------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| ADAPTER SEAL HOUSING | SULZER BINGHAM | Q99-A861-SN7 | N/A | 2MRCEP01B | 1984 | Replacement | |
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7. Description of Work REPLACEMENT OF ADAPTER SEAL HOUSING.

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.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01C 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 2RC02-4 5. W.O. Number 00924607
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL ADAPTER SEAL HOUSING (TOP HAT) AS DEEMED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#924607.

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 REQUIRED AFTER ENGINEERING INSPECTION.

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

- MB 06/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

- MB 06/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- MB 06/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

- MB 06/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------------|-------------------|--------------|----------|------------|
| ADAPTER SEAL HS. | 8000-307-001-C007 | Q99-A861-SN7 | CS7 | N/A |
| 2MRCEP01C | | | | |
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19. Planner Michael B. Newell 06/20/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 6/21/00 Print Name R. P. INDAP
Signature Date
 21. ANII R. G. Hogstrom 6-21-00 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 06/20/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.# 924607
Address Work Order Number
3. Work Performed by APS 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 1974 Edition, N/A 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) |
|----------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| ADAPTER SEAL HOUSING | SULZER BINGHAM | Q99-A861-SN7 | N/A | 2MRCEP01C | 1984 | Replacement | |
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7. Description of Work REPLACEMENT OF ADAPTER SEAL HOUSING.
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.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01D 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 2RC02-4 5. W.O. Number 00924608
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL ADAPTER SEAL HOUSING (TOP HAT) AS DEEMED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#924608.

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 REQUIRED AFTER ENGINEERING INSPECTION.

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 06/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

- MBN 06/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- MBN 06/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

- MBN 06/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------------|-------------------|--------------|----------|------------|
| ADAPTER SEAL HS. | 8000-307-001-C007 | Q99-A861-SN7 | CS7 | N/A |
| 2MRCEP01D | | | | |
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19. Planner Michael B. Newell 06/20/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.P. Indap 6/21/00 Print Name R.P. INDAP
Signature Date
 21. ANII R.G. Hogstrom 6-21-00 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 06/20/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.# 924608
Address Work Order Number
3. Work Performed by APS 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 1974 Edition, N/A 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) |
|----------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| ADAPTER SEAL HOUSING | SULZER BINGHAM | Q99-A861-SN7 | N/A | 2MRCEP01D | 1984 | Replacement | |
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7. Description of Work REPLACEMENT OF ADAPTER SEAL HOUSING.
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.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PCHNV787 2. Code Class ASME SEC. III CL.1
3. Item Description 1" CHECK VALVE
4. N-5 Package Number 2CH14-2 5. W.O. Number 00928219
6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADDENDA
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description BODY TO BONNET SEAL WELD REPLACEMENT DUE TO CHECK VALVE INSPECTION PROGRAM
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
REPLACED DUE TO CHECK VALVE INSPECTION
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☒ NO

JB 05/30/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

JB 05/30/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

JB 05/30/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

JB 05/30/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|------------|----------|------------|
| N/A | N/A | N/A | N/A | N/A |
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19. Planner J. Boulanger 05/30/00 Print Name J. BOULANGER
Signature Date
20. ISI Engineer DOUG HANSEN 05/30/00 Print Name DOUG HANSEN
Signature Date
21. ANII BOB HOGSTROM 05/30/00 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 05/24/00
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 00928219
Address Work Order Number
3. Work Performed by Arizona Public Service Company 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 Sec. 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 | 57650 | N/A | 2PCHNV787 | 1980 | Replaced | Yes |
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7. Description of Work Replaced body to bonnet seal weld due to check valve inspection program.
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 Body to bonnet seal weld replaced due to check valve inspection program. WO# 928219
SWMS WO# 238322

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R.L. BROWNING RLB ISI ENG Date 10/14/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 5-30-00 to 10-14-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.L. Browning Commissions NS 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements
 Date OCTOBER 14 2000

ASME SECTION XI - REPAIR/REPLACEMENT

Component ID 2PCHNV802 2. Code Class ASME SEC. III CL1.

| | | |
|----|------------------|----------------|
| 3. | Item Description | 1" CHECK VALVE |
|----|------------------|----------------|

4. N-5 Package Number 2CH14-2 5. W.O. Number 00930036

6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADD.

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

8. Work Description BONNET TO BODY SEAL WELD REPLACED DUE TO CHECK VALVE
INSPECTION PROGRAM.

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.
WORK REQUIRED FOR VALVE DISASSEMBLY TO ALLOW FOR CHECK VALVE
INSPECTION.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.

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

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

15. Preservice Inspection Required. ☐ YES ☒ NO

Initial ACB Date 05/31/00 If required, include a step in the W.O. to perform Preservice Inspection.

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

Initial Date 05/31/00 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Date 03/31/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial LS Date 05/31/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

[illegible]

19. Planner J. C. Boulanger 05/31/00 Print Name JIM BOULANGER
Signature Date

20. ISI Engineer DAH- 6-6-00 Print Name DOUG HANSEN
Signature Date

21. ANII Bob Hogstrom 6-6-00 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 05/31/00
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 00930036
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 | 57651 | N/A | 2PCHNV802 | 1980 | 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 Body to bonnet seal weld replaced due to check valve inspection program. WO# 930036

SWMS WO 240134

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

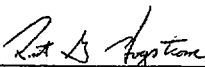
Expiration Date N/A

Signed  ISI ENGINEER Date 10-14-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-6-00 to 10-14-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

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

Date OCTOBER 14 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PCHNV866 2. Code Class ASME SEC. III CL1.

3. Item Description 1" CHECK VALVE

4. N-5 Package Number 2CH14-2 5. W.O. Number 00930563

6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADD.

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

8. Work Description BONNET TO BODY SEAL WELD REPLACED DUE TO CHECK VALVE
INSPECTION PROGRAM.

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.
WORK REQUIRED FOR VALVE DISASSEMBLY TO ALLOW FOR CHECK VALVE
INSPECTION.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.

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

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

15. Preservice Inspection Required. ☐ YES ☒ NO

Initial 05/31/00 Date If required, include a step in the W.O. to perform Preservice Inspection.

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


463 05/31/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

Initial fb Date 03/31/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 05/31/00 Date

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

[illegible]

19. Planner  05/31/00 Print Name JIM BOULANGER
Signature, Date

20. ISI Engineer ✓ DBH 6-6-00 Print Name DOUG HANSEN
Signature Date

21. ANII Bob H. Hogstrom 6-6-00 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 05/31/00
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 00930563
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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|-------------------------------|
| neck Valve | Borg Warner | 57654 | N/A | 2PCHNV866 | 1980 | 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 Body to bonnet seal weld replaced due to check valve inspection program. WO#930563

SUMS WO #

240661

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 12/14/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-6-00 to 10-14-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.L. Browning
Inspector's Signature

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

Date OCTOBER 14 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01A 2. Code Class ASME SECTION III, CLASS 1
3. Item Description STEAM GENERATOR #1
4. N-5 Package Number 2RC01-1A 5. W.O. Number 2304778
6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01A COLD LEG TUBES PER ENG-DFWO 2304440 EVALUATION AND DISPOSITION.
9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
Report Number 2R09 EDDY CURRENT EXAM. REPORT
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2304440.
11. Repair/Replacement Work Organization CE
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

RDP 9/21/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

an 09/19/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

an 09/19/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

an 09/19/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------|-------------------|-------------------|-------------------|-------------------|
| TUBE PLUGS | SEE ATTACHED LIST | SEE ATTACHED LIST | SEE ATTACHED LIST | SEE ATTACHED LIST |
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19. Planner Alex P. Waicelunas 9-19-00 Print Name ALEX P. WAICELUNAS
Signature Date

J. ISI Engineer Ramakant P. Indap 9/21/00 Print Name RAMAKANT P. INDAP
Signature Date

21. ANII Robert G. Hogstrom 9-21-00 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 11/01/00
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 2304778
Address Work Order Number
3. Work Performed by ABB-CE Type Code Symbol Stamp None
Name
Authorization No. N/A
911 W. Main St., Chattanooga, TN 37402 Expiration Date N/A
Address

4. Identification of System Reactor Coolant

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Steam Generator | CE | 79273-1 | NA | 2MRCEE01A | 1979 | Repaired | Yes |
| Tube Plugs | CE | * | NA | * | 2000 | Replacement | No |
| | | | | | | | |
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7. Description of Work Plug SG (2MRCEE01A) Cold Leg tubes per DIWO 2304778. See attached list.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks See DFWO 2304440 for tubes plugged (plugging list attached).

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. Pondap, Consulting Met. Engineer Date 11-01-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 11-02-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. A. Hystrom

Inspector's Signature

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

National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2000

STEAM GENERATOR 2MRCEE01A
"COLD LEG"

WORK ORDER 2304778

| ASME SECTION XI – REPAIR / REPLACEMENT | | | | |
|---|-----------------|-------------------|-----------------|---------------|
| COMP. ID | PART NO. | SERIAL NO. | HEAT NO. | MR NO. |
| 2MRCEE01A R67 / L12 | 0307-1601 | 8797 | J-9161-5 | 470466 |
| 2MRCEE01A R120 / L49 | 0307-1601 | 8800 | J-9161-5 | 470466 |
| 2MRCEE01A R43 / L50 | 0307-1601 | 8798 | J-9161-5 | 470466 |
| 2MRCEE01A R120 / L59 | 0307-1601 | 8796 | J-9161-5 | 470466 |
| 2MRCEE01A R39 / L64 | 0307-1601 | 8915 | J-9161-5 | 470466 |
| 2MRCEE01A R43 / L70 | 0307-1601 | 8916 | J-9161-5 | 470466 |
| 2MRCEE01A R68 / L75 | 0307-1601 | 8917 | J-9161-5 | 470466 |
| 2MRCEE01A R140 / L77 | 0307-1601 | 8795 | J-9161-5 | 470466 |
| 2MRCEE01A R116 / L79 | 0307-1601 | 8918 | J-9161-5 | 470466 |
| 2MRCEE01A R75 / L80 | 0307-1601 | 8919 | J-9161-5 | 470466 |
| 2MRCEE01A R125 / L80 | 0307-1601 | 8920 | J-9161-5 | 470466 |
| 2MRCEE01A R61 / L82 | 0307-1601 | 8921 | J-9161-5 | 470466 |
| 2MRCEE01A R127 / L86 | 0307-1601 | 8922 | J-9161-5 | 470466 |
| 2MRCEE01A R133 / L86 | 0307-1601 | 9099 | J-9161-5 | 470466 |
| 2MRCEE01A R73 / L88 | 0307-1601 | 9100 | J-9161-5 | 470466 |
| 2MRCEE01A R113 / L90 | 0307-1601 | 8794 | J-9161-5 | 470466 |
| 2MRCEE01A R80 / L95 | 0307-1601 | 8913 | J-9161-5 | 470466 |
| 2MRCEE01A R133 / L102 | 0307-1601 | 8905 | J-9161-5 | 470466 |
| 2MRCEE01A R124 / L107 | 0307-1601 | 8904 | J-9161-5 | 470466 |
| 2MRCEE01A R49 / L112 | 0307-1601 | 8903 | J-9161-5 | 470466 |
| 2MRCEE01A R144 / L117 | 0307-1601 | 8907 | J-9161-5 | 470466 |
| 2MRCEE01A R63 / L118 | 0307-1601 | 8908 | J-9161-5 | 470466 |
| 2MRCEE01A R135 / L118 | 0307-1601 | 8909 | J-9161-5 | 470466 |
| 2MRCEE01A R63 / L120 | 0307-1601 | 8910 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01A
"COLD LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01A R134 / L123 | 0307-1601 | 8902 | J-9161-5 | 470466 |
| 2MRCEE01A R65 / L124 | 0307-1601 | 8906 | J-9161-5 | 470466 |
| 2MRCEE01A R135 / L124 | 0307-1601 | 8911 | J-9161-5 | 470466 |
| 2MRCEE01A R125 / L126 | 0307-1601 | 8912 | J-9161-5 | 470466 |
| 2MRCEE01A R122 / L131 | 0307-1601 | 8901 | J-9161-5 | 470466 |
| 2MRCEE01A R110 / L145 | 0307-1601 | 8914 | J-9161-5 | 470466 |
| 2MRCEE01A R9 / L184 | 0307-1601 | 8793 | J-9161-5 | 470466 |
| 2MRCEE01A R6 / L189 | 0307-1601 | 8799 | J-9161-5 | 470466 |
| 2MRCEE01A R104 / L39 | 0307-1601 | 9962 | J-9162-2 | 470466 |
| 2MRCEE01A R114 / L45 | 0307-1601 | 8740 | J-9161-5 | 470466 |
| 2MRCEE01A R129 / L46 | 0307-1601 | 9969 | J-9162-2 | 470466 |
| 2MRCEE01A R126 / L49 | 0307-1601 | 9963 | J-9162-2 | 470466 |
| 2MRCEE01A R101 / L50 | 0307-1601 | 9965 | J-9162-2 | 470466 |
| 2MRCEE01A R107 / L50 | 0307-1601 | 9966 | J-9162-2 | 470466 |
| 2MRCEE01A R89 / L52 | 0307-1601 | 9964 | J-9162-2 | 470466 |
| 2MRCEE01A R127 / L56 | 0307-1601 | 9970 | J-9162-2 | 470466 |
| 2MRCEE01A R89 / L60 | 0307-1601 | 9967 | J-9162-2 | 470466 |
| 2MRCEE01A R125 / L68 | 0307-1601 | 8750 | J-9161-5 | 470466 |
| 2MRCEE01A R73 / L144 | 0307-1601 | 8749 | J-9161-5 | 470466 |
| 2MRCEE01A R75 / L162 | 0307-1601 | 8739 | J-9161-5 | 470466 |
| 2MRCEE01A R79 / L162 | 0307-1601 | 9968 | J-9162-2 | 470466 |
| 2MRCEE01A R36 / L21 | 0307-1601 | 9787 | J-9162-2 | 470466 |
| 2MRCEE01A R69 / L24 | 0307-1601 | 9782 | J-9162-2 | 470466 |
| 2MRCEE01A R104 / L25 | 0307-1601 | 9786 | J-9162-2 | 470466 |
| 2MRCEE01A R127 / L40 | 0307-1601 | 9788 | J-9162-2 | 470466 |
| 2MRCEE01A R97 / L50 | 0307-1601 | 9781 | J-9162-2 | 470466 |
| 2MRCEE01A R70 / L65 | 0307-1601 | 9783 | J-9162-2 | 470466 |

STEAM GENERATOR 2MRCEE01A
"COLD LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01A R147 / L102 | 0307-1601 | 9778 | J-9162-2 | 470466 |
| 2MRCEE01A R124 / L117 | 0307-1601 | 9779 | J-9162-2 | 470466 |
| 2MRCEE01A R136 / L125 | 0307-1601 | 9777 | J-9162-2 | 470466 |
| 2MRCEE01A R141 / L128 | 0307-1601 | 9776 | J-9162-2 | 470466 |
| 2MRCEE01A R89 / L132 | 0307-1601 | 9772 | J-9162-2 | 470466 |
| 2MRCEE01A R124 / L133 | 0307-1601 | 9774 | J-9162-2 | 470466 |
| 2MRCEE01A R142 / L133 | 0307-1601 | 9775 | J-9162-2 | 470466 |
| 2MRCEE01A R110 / L153 | 0307-1601 | 9773 | J-9162-2 | 470466 |
| 2MRCEE01A R70 / L155 | 0307-1601 | 9771 | J-9162-2 | 470466 |
| 2MRCEE01A R3 / L56 | 0307-1601 | 9784 | J-9162-2 | 470466 |
| 2MRCEE01A R69 / L64 | 0307-1601 | 9785 | J-9162-2 | 470466 |

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01A 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #1
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2304792
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01A HOT LEG TUBES PER ENG-DFWO 2304457
EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 2R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2304457.

11. Repair/Replacement Work Organization CE
 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
RPB 9/21/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
an 09/19/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
an 09/19/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
an 09/19/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------|-------------------|-------------------|-------------------|-------------------|
| TUBE PLUGS | SEE ATTACHED LIST | SEE ATTACHED LIST | SEE ATTACHED LIST | SEE ATTACHED LIST |
| | | | | |
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19. Planner Alex Waicelunas 9-19-00 Print Name ALEX P. WAICELUNAS
Signature Date
 J. ISI Engineer Ramakant P. Indap 9/21/00 Print Name RAMAKANT P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 9-21-00 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 11/01/00
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 2304792
Address Work Order Number

3. Work Performed by ABB-CE Type Code Symbol Stamp None
Name
911 W. Main St., Chattanooga, TN 37402 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Reactor Coolant

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Steam Generator | CE | 79273-1 | NA | 2MRCEE01A | 1979 | Repaired | Yes |
| Tube Plugs | CE | * | NA | * | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Plug SG (2MRCEE01A) Hot Leg tubes per DIWO 2304792. See attached list.

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

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

FORM NIS-2 (Back)

9. Remarks See DFWO 2304457 for tubes plugged (plugging list attached).

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature], Consulting Met-Engineer Date 11-01-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 11-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date NOVEMBER 2, 2000

STEAM GENERATOR 2MRCEE01A
"HOT LEG"

WORK ORDER 2304792

| ASME SECTION XI – REPAIR / REPLACEMENT | | | | |
|---|-----------------|-------------------|-----------------|---------------|
| COMP. ID | PART NO. | SERIAL NO. | HEAT NO. | MR NO. |
| 2MRCEE01A R67 / L12 | 0307-1601 | 9769 | J-9162-2 | 470466 |
| 2MRCEE01A R120 / L49 | 0307-1601 | 9770 | J-9162-2 | 470466 |
| 2MRCEE01A R43 / L50 | 0307-1601 | 9768 | J-9162-2 | 470466 |
| 2MRCEE01A R120 / L59 | 0307-1601 | 9764 | J-9162-2 | 470466 |
| 2MRCEE01A R39 / L64 | 0307-1601 | 9760 | J-9162-2 | 470466 |
| 2MRCEE01A R43 / L70 | 0307-1601 | 9759 | J-9162-2 | 470466 |
| 2MRCEE01A R68 / L75 | 0307-1601 | 9780 | J-9162-2 | 470466 |
| 2MRCEE01A R140 / L77 | 0307-1601 | 9096 | J-9161-5 | 470466 |
| 2MRCEE01A R116 / L79 | 0307-1601 | 9094 | J-9161-5 | 470466 |
| 2MRCEE01A R75 / L80 | 0307-1601 | 9093 | J-9161-5 | 470466 |
| 2MRCEE01A R125 / L80 | 0307-1601 | 9097 | J-9161-5 | 470466 |
| 2MRCEE01A R61 / L82 | 0307-1601 | 9095 | J-9161-5 | 470466 |
| 2MRCEE01A R127 / L86 | 0307-1601 | 9098 | J-9161-5 | 470466 |
| 2MRCEE01A R133 / L86 | 0307-1601 | 9079 | J-9161-5 | 470466 |
| 2MRCEE01A R73 / L88 | 0307-1601 | 9081 | J-9161-5 | 470466 |
| 2MRCEE01A R113 / L90 | 0307-1601 | 9087 | J-9161-5 | 470466 |
| 2MRCEE01A R80 / L95 | 0307-1601 | 9074 | J-9161-5 | 470466 |
| 2MRCEE01A R133 / L102 | 0307-1601 | 9073 | J-9161-5 | 470466 |
| 2MRCEE01A R124 / L107 | 0307-1601 | 9072 | J-9161-5 | 470466 |
| 2MRCEE01A R49 / L112 | 0307-1601 | 9758 | J-9162-2 | 470466 |
| 2MRCEE01A R144 / L117 | 0307-1601 | 9064 | J-9161-5 | 470466 |
| 2MRCEE01A R63 / L118 | 0307-1601 | 9080 | J-9161-5 | 470466 |
| 2MRCEE01A R135 / L118 | 0307-1601 | 9063 | J-9161-5 | 470466 |
| 2MRCEE01A R63 / L120 | 0307-1601 | 9089 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01A
"HOT LEG"

| | | | | |
|--------------------------|-----------|-------|----------|--------|
| 2MRCEE01A R134 / L123 | 0307-1601 | 9061 | J-9161-5 | 470466 |
| 2MRCEE01A R65 / L124 | 0307-1601 | 9070 | J-9161-5 | 470466 |
| 2MRCEE01A R135 / L124 | 0307-1601 | 9060 | J-9161-5 | 470466 |
| 2MRCEE01A R125 / L126 | 0307-1601 | 9058 | J-9161-5 | 470466 |
| 2MRCEE01A R122 / L131 | 0307-1601 | 9057 | J-9161-5 | 470466 |
| 2MRCEE01A R110 / L145 | 0307-1601 | 9056 | J-9161-5 | 470466 |
| 2MRCEE01A R9 / L184 | 0307-1601 | 9052 | J-9161-5 | 470466 |
| 2MRCEE01A R6 / L189 | 0307-1601 | 9051 | J-9161-5 | 470466 |
| 2MRCEE01A R104 / L39 | 0307-1601 | 9077 | J-9161-5 | 470466 |
| 2MRCEE01A R114 / L45 | 0307-1601 | 9076 | J-9161-5 | 470466 |
| 2MRCEE01A R129 / L46 | 0307-1601 | 9075 | J-9161-5 | 470466 |
| 2MRCEE01A R126 / L49 | 0307-1601 | 9078- | J-9161-5 | 470466 |
| 2MRCEE01A R101 / L50 | 0307-1601 | 9086 | J-9161-5 | 470466 |
| 2MRCEE01A R107 / L50 | 0307-1601 | 9091 | J-9161-5 | 470466 |
| 2MRCEE01A R89 / L52 | 0307-1601 | 9085 | J-9161-5 | 470466 |
| 2MRCEE01A R127 / L56 | 0307-1601 | 9092 | J-9161-5 | 470466 |
| 2MRCEE01A R89 / L60 | 0307-1601 | 9082 | J-9161-5 | 470466 |
| 2MRCEE01A R125 / L68 | 0307-1601 | 9088 | J-9161-5 | 470466 |
| 2MRCEE01A R73 / L144 | 0307-1601 | 9055 | J-9161-5 | 470466 |
| 2MRCEE01A R75 / L162 | 0307-1601 | 9053 | J-9161-5 | 470466 |
| 2MRCEE01A R79 / L162 | 0307-1601 | 9054 | J-9161-5 | 470466 |
| 2MRCEE01A R36 / L21 | 0307-1601 | 9762 | J-9162-2 | 470466 |
| 2MRCEE01A R69 / L24 | 0307-1601 | 9763 | J-9162-2 | 470466 |
| 2MRCEE01A R104 / L25 | 0307-1601 | 9767 | J-9162-2 | 470466 |
| 2MRCEE01A R127 / L40 | 0307-1601 | 9766 | J-9162-2 | 470466 |
| 2MRCEE01A R97 / L50 | 0307-1601 | 9765 | J-9162-2 | 470466 |
| 2MRCEE01A R70 / L65 | 0307-1601 | 9084 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01A
"HOT LEG"

| | | | | |
|---------------------------|-----------|--------|----------|--------|
| 2MRCEE01A R147 / L102 | 0307-1601 | 9071 | J-9161-5 | 470466 |
| 2MRCEE01A R124 / L117 | 0307-1601 | 9090 | J-9161-5 | 470466 |
| 2MRCEE01A R136 / L125 | 0307-1601 | 9059 | J-9161-5 | 470466 |
| 2MRCEE01A R141 / L128 | 0307-1601 | 9065 | J-9161-5 | 470466 |
| 2MRCEE01A R89 / L132 | 0307-1601 | 9069 | J-9161-5 | 470466 |
| 2MRCEE01A R124 / L133 | 0307-1601 | 9066 | J-9161-5 | 470466 |
| 2MRCEE01A R142 / L133 | 0307-1601 | 9062 | J-9161-5 | 470466 |
| 2MRCEE01A R110 / L153 | 0307-1601 | 9067 | J-9161-5 | 470466 |
| 2MRCEE01A R70 / L155 | 0307-1601 | 9068 | J-9161-5 | 470466 |
| 2MRCEE01A R3 / L56 | 0307-1601 | 9761 | J-9162-2 | 470466 |
| 2MRCEE01A R69 / L64 | 0307-1601 | 9077 | J-9161-5 | 470466 |
| 2MRCEE01A ** R38 / L93 | 0307-2801 | FR-108 | J-9161-5 | 466909 |

** Rail Plug installed at this location.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01B 2. Code Class ASME SECTION III, CLASS 1
3. Item Description STEAM GENERATOR #2
4. N-5 Package Number 2RC01-1A 5. W.O. Number 2304796
6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01B COLD LEG TUBES PER ENG-DFWO 2304461 EVALUATION AND DISPOSITION.
9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
Report Number 2R09 EDDY CURRENT EXAM. REPORT
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2304461.
11. Repair/Replacement Work Organization CE
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
RPZ 9/21/00 Initial Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
an 09/19/00 Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.
an 09/19/00 Initial Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
an 09/19/00 Initial Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

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

19. Planner Alex Waicelunas 9-19-00 Signature Date Print Name ALEX P. WAICELUNAS

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

21. ANII Robert G. Hogstrom 9-21-00 Signature Date Print Name ROBERT G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/01/00
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 2304796
Address Work Order Number
3. Work Performed by ABB-CE Type Code Symbol Stamp None
Name
911 W. Main St., Chattanooga, TN 37402 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME Sect. III, Cl.1 19 71 Edition, W'73 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Steam Generator | CE | 79273-2 | NA | 2MRCEE01B | 1979 | Repaired | Yes |
| Tube Plugs | CE | * | NA | * | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Plug SG (2MRCEE01B) Cold Leg tubes per DIWO 2304796. See attached list.

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

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

FORM NIS-2 (Back)

9. Remarks See DFWO 2304461 for tubes plugged (plugging list attached).

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Consulting Met-Engineer Date 11-01-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 11-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date NOVEMBER 2, 2000

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

WORK ORDER 2304796

| ASME SECTION XI – REPAIR / REPLACEMENT | | | | |
|---|-----------------|-------------------|-----------------|---------------|
| COMP. ID | PART NO. | SERIAL NO. | HEAT NO. | MR NO. |
| 2MRCEE01B R62 / L15 | 0307-1601 | 8759 | J-9161-5 | 470466 |
| 2MRCEE01B R33 / L16 | 0307-1601 | 8758 | J-9161-5 | 470466 |
| 2MRCEE01B R2 / L39 | 0307-1601 | 8751 | J-9161-5 | 470466 |
| 2MRCEE01B R130 / L47 | 0307-1601 | 8757 | J-9161-5 | 470466 |
| 2MRCEE01B R38 / L49 | 0307-1601 | 8754 | J-9161-5 | 470466 |
| 2MRCEE01B R70 / L49 | 0307-1601 | 8899 | J-9161-5 | 470466 |
| 2MRCEE01B R5 / L50 | 0307-1601 | 8898 | J-9161-5 | 470466 |
| 2MRCEE01B R64 / L51 | 0307-1601 | 8766 | J-9161-5 | 470466 |
| 2MRCEE01B R16 / L55 | 0307-1601 | 8762 | J-9161-5 | 470466 |
| 2MRCEE01B R40 / L59 | 0307-1601 | 8752 | J-9161-5 | 470466 |
| 2MRCEE01B R45 / L60 | 0307-1601 | 8753 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L62 | 0307-1601 | 8767 | J-9161-5 | 470466 |
| 2MRCEE01B R34 / L67 | 0307-1601 | 9121 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L67 | 0307-1601 | 8923 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L68 | 0307-1601 | 8935 | J-9161-5 | 470466 |
| 2MRCEE01B R45 / L68 | 0307-1601 | 8933 | J-9161-5 | 470466 |
| 2MRCEE01B R53 / L68 | 0307-1601 | 8929 | J-9161-5 | 470466 |
| 2MRCEE01B R60 / L71 | 0307-1601 | 8936 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L74 | 0307-1601 | 8928 | J-9161-5 | 470466 |
| 2MRCEE01B R61 / L74 | 0307-1601 | 8946 | J-9161-5 | 470466 |
| 2MRCEE01B R58 / L75 | 0307-1601 | 8943 | J-9161-5 | 470466 |
| 2MRCEE01B R62 / L75 | 0307-1601 | 8938 | J-9161-5 | 470466 |
| 2MRCEE01B R85 / L78 | 0307-1601 | 8941 | J-9161-5 | 470466 |
| 2MRCEE01B R34 / L79 | 0307-1601 | 9110 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01B R66 / L81 | 0307-1601 | 8942 | J-9161-5 | 470466 |
| 2MRCEE01B R118 / L81 | 0307-1601 | 8927 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L82 | 0307-1601 | 8934 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L83 | 0307-1601 | 9144 | J-9161-5 | 470466 |
| 2MRCEE01B R62 / L83 | 0307-1601 | 9131 | J-9161-5 | 470466 |
| 2MRCEE01B R78 / L83 | 0307-1601 | 9138 | J-9161-5 | 470466 |
| 2MRCEE01B R82 / L83 | 0307-1601 | 8939 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L84 | 0307-1601 | 9143 | J-9161-5 | 470466 |
| 2MRCEE01B R81 / L84 | 0307-1601 | 9133 | J-9161-5 | 470466 |
| 2MRCEE01B R78 / L85 | 0307-1601 | 9134 | J-9161-5 | 470466 |
| 2MRCEE01B R66 / L87 | 0307-1601 | 9139 | J-9161-5 | 470466 |
| 2MRCEE01B R82 / L87 | 0307-1601 | 9132 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L91 | 0307-1601 | 9146 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L92 | 0307-1601 | 9145 | J-9161-5 | 470466 |
| 2MRCEE01B R62 / L93 | 0307-1601 | 9141 | J-9161-5 | 470466 |
| 2MRCEE01B R71 / L96 | 0307-1601 | 9142 | J-9161-5 | 470466 |
| 2MRCEE01B R78 / L97 | 0307-1601 | 9137 | J-9161-5 | 470466 |
| 2MRCEE01B R60 / L99 | 0307-1601 | 9136 | J-9161-5 | 470466 |
| 2MRCEE01B R61 / L102 | 0307-1601 | 9140 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L103 | 0307-1601 | 9148 | J-9161-5 | 470466 |
| 2MRCEE01B R73 / L106 | 0307-1601 | 9147 | J-9161-5 | 470466 |
| 2MRCEE01B R71 / L108 | 0307-1601 | 8791 | J-9161-5 | 470466 |
| 2MRCEE01B R43 / L110 | 0307-1601 | 8780 | J-9161-5 | 470466 |
| 2MRCEE01B R78 / L111 | 0307-1601 | 8792 | J-9161-5 | 470466 |
| 2MRCEE01B R88 / L111 | 0307-1601 | 8769 | J-9161-5 | 470466 |
| 2MRCEE01B R152 / L111 | 0307-1601 | 9113 | J-9161-5 | 470466 |
| 2MRCEE01B R64 / L113 | 0307-1601 | 8771 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01B R72 / L113 | 0307-1601 | 8777 | J-9161-5 | 470466 |
| 2MRCEE01B R94 / L113 | 0307-1601 | 8776 | J-9161-5 | 470466 |
| 2MRCEE01B R64 / L115 | 0307-1601 | 8783 | J-9161-5 | 470466 |
| 2MRCEE01B R57 / L116 | 0307-1601 | 8782 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L118 | 0307-1601 | 8775 | J-9161-5 | 470466 |
| 2MRCEE01B R53 / L118 | 0307-1601 | 8774 | J-9161-5 | 470466 |
| 2MRCEE01B R55 / L118 | 0307-1601 | 8781 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L118 | 0307-1601 | 8773 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L120 | 0307-1601 | 8772 | J-9161-5 | 470466 |
| 2MRCEE01B R63 / L120 | 0307-1601 | 8770 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L121 | 0307-1601 | 9130 | J-9161-5 | 470466 |
| 2MRCEE01B R63 / L122 | 0307-1601 | 9129 | J-9161-5 | 470466 |
| 2MRCEE01B R67 / L122 | 0307-1601 | 9128 | J-9161-5 | 470466 |
| 2MRCEE01B R16 / L129 | 0307-1601 | 9119 | J-9161-5 | 470466 |
| 2MRCEE01B R38 / L129 | 0307-1601 | 9135 | J-9161-5 | 470466 |
| 2MRCEE01B R57 / L130 | 0307-1601 | 9126 | J-9161-5 | 470466 |
| 2MRCEE01B R28 / L131 | 0307-1601 | 9106 | J-9161-5 | 470466 |
| 2MRCEE01B R29 / L132 | 0307-1601 | 9116 | J-9161-5 | 470466 |
| 2MRCEE01B R56 / L133 | 0307-1601 | 9127 | J-9161-5 | 470466 |
| 2MRCEE01B R48 / L137 | 0307-1601 | 9118 | J-9161-5 | 470466 |
| 2MRCEE01B R29 / L138 | 0307-1601 | 9124 | J-9161-5 | 470466 |
| 2MRCEE01B R40 / L141 | 0307-1601 | 9122 | J-9161-5 | 470466 |
| 2MRCEE01B R46 / L145 | 0307-1601 | 9120 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L146 | 0307-1601 | 9123 | J-9161-5 | 470466 |
| 2MRCEE01B R17 / L148 | 0307-1601 | 8741 | J-9161-5 | 470466 |
| 2MRCEE01B R17 / L176 | 0307-1601 | 9111 | J-9161-5 | 470466 |
| 2MRCEE01B R113 / L148 | 0307-1601 | 9115 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01B R113 / L150 | 0307-1601 | 9114 | J-9161-5 | 470466 |
| 2MRCEE01B R20 / L165 | 0307-1601 | 9149 | J-9161-5 | 470466 |
| 2MRCEE01B R49 / L16 | 0307-1601 | 8763 | J-9161-5 | 470466 |
| 2MRCEE01B R95 / L28 | 0307-1601 | 8932 | J-9161-5 | 470466 |
| 2MRCEE01B R104 / L47 | 0307-1601 | 8944 | J-9161-5 | 470466 |
| 2MRCEE01B R105 / L50 | 0307-1601 | 8926 | J-9161-5 | 470466 |
| 2MRCEE01B R70 / L53 | 0307-1601 | 8756 | J-9161-5 | 470466 |
| 2MRCEE01B R131 / L56 | 0307-1601 | 8937 | J-9161-5 | 470466 |
| 2MRCEE01B R114 / L59 | 0307-1601 | 8931 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L60 | 0307-1601 | 8768 | J-9161-5 | 470466 |
| 2MRCEE01B R17 / L62 | 0307-1601 | 8765 | J-9161-5 | 470466 |
| 2MRCEE01B R140 / L65 | 0307-1601 | 8924 | J-9161-5 | 470466 |
| 2MRCEE01B R142 / L65 | 0307-1601 | 8925 | J-9161-5 | 470466 |
| 2MRCEE01B R20 / L71 | 0307-1601 | 9103 | J-9161-5 | 470466 |
| 2MRCEE01B R157 / L78 | 0307-1601 | 8945 | J-9161-5 | 470466 |
| 2MRCEE01B R138 / L79 | 0307-1601 | 8790 | J-9161-5 | 470466 |
| 2MRCEE01B R146 / L81 | 0307-1601 | 9125 | J-9161-5 | 470466 |
| 2MRCEE01B R126 / L85 | 0307-1601 | 8789 | J-9161-5 | 470466 |
| 2MRCEE01B R44 / L91 | 0307-1601 | 8786 | J-9161-5 | 470466 |
| 2MRCEE01B R43 / L92 | 0307-1601 | 8785 | J-9161-5 | 470466 |
| 2MRCEE01B R153 / L98 | 0307-1601 | 9102 | J-9161-5 | 470466 |
| 2MRCEE01B R115 / L100 | 0307-1601 | 8788 | J-9161-5 | 470466 |
| 2MRCEE01B R117 / L100 | 0307-1601 | 8787 | J-9161-5 | 470466 |
| 2MRCEE01B R45 / L102 | 0307-1601 | 8779 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L106 | 0307-1601 | 8784 | J-9161-5 | 470466 |
| 2MRCEE01B R29 / L112 | 0307-1601 | 8778 | J-9161-5 | 470466 |
| 2MRCEE01B R141 / L126 | 0307-1601 | 9109 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

| | | | | |
|---------------------------|-----------|--------|----------|--------|
| 2MRCEE01B R132 / L127 | 0307-1601 | 9107 | J-9161-5 | 470466 |
| 2MRCEE01B R67 / L10 | 0307-1601 | 8764 | J-9161-5 | 470466 |
| 2MRCEE01B R68 / L11 | 0307-1601 | 8755 | J-9161-5 | 470466 |
| 2MRCEE01B R102 / L53 | 0307-1601 | 8760 | J-9161-5 | 470466 |
| 2MRCEE01B R57 / L58 | 0307-1601 | 8897 | J-9161-5 | 470466 |
| 2MRCEE01B R107 / L62 | 0307-1601 | 8896 | J-9161-5 | 470466 |
| 2MRCEE01B R104 / L63 | 0307-1601 | 8895 | J-9161-5 | 470466 |
| 2MRCEE01B R118 / L65 | 0307-1601 | 8900 | J-9161-5 | 470466 |
| 2MRCEE01B R67 / L94 | 0307-1601 | 8940 | J-9161-5 | 470466 |
| 2MRCEE01B R140 / L109 | 0307-1601 | 9105 | J-9161-5 | 470466 |
| 2MRCEE01B R126 / L119 | 0307-1601 | 9112 | J-9161-5 | 470466 |
| 2MRCEE01B R81 / L124 | 0307-1601 | 8930 | J-9161-5 | 470466 |
| 2MRCEE01B R127 / L128 | 0307-1601 | 9108 | J-9161-5 | 470466 |
| 2MRCEE01B R120 / L129 | 0307-1601 | 9104 | J-9161-5 | 470466 |
| 2MRCEE01B R48 / L143 | 0307-1601 | 8743 | J-9161-5 | 470466 |
| 2MRCEE01B R90 / L145 | 0307-1601 | 9101 | J-9161-5 | 470466 |
| 2MRCEE01B R73 / L154 | 0307-1601 | 9117 | J-9161-5 | 470466 |
| 2MRCEE01B R6 / L155 | 0307-1601 | 8742 | J-9161-5 | 470466 |
| 2MRCEE01B R24 / L165 | 0307-1601 | 9150 | J-9161-5 | 470466 |
| 2MRCEE01B R12 / L19 | 0307-1601 | 9753 | J-9162-2 | 470466 |
| 2MRCEE01B R37 / L44 | 0307-1601 | 9757 | J-9162-2 | 470466 |
| 2MRCEE01B R91 / L46 | 0307-1601 | 9756 | J-9162-2 | 470466 |
| 2MRCEE01B R134 / L57 | 0307-1601 | 9751 | J-9162-2 | 470466 |
| 2MRCEE01B R144 / L67 | 0307-1601 | 9754 | J-9162-2 | 470466 |
| 2MRCEE01B R127 / L80 | 0307-1601 | 9755 | J-9162-2 | 470466 |
| 2MRCEE01B R42 / L81 | 0307-1601 | 9752 | J-9162-2 | 470466 |
| 2MRCEE01B ** R9 / L118 | 0307-2801 | FR-109 | J-9161-5 | 466909 |

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

| | | | | |
|---------------------------|-----------|--------|----------|--------|
| 2MRCEE01B ** R24 / L77 | 0307-2801 | FR-110 | J-9161-5 | 466909 |
| 2MRCEE01B * R3 / L10 | 0307-1601 | 8761 | J-9161-5 | 470466 |

** Rail Plugs installed at these two locations.

* Rolled Plug re-installed at this location.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01B 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #2
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2304797
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01B HOT LEG TUBES PER ENG-DFWO 2304464
EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 2R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2304464.

11. Repair/Replacement Work Organization CE
 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
SP 9/21/00 Initial Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
an 09/19/00 Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.
an 09/19/00 Initial Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
an 09/19/00 Initial Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

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

19. Planner Alex Waicelunas 9-19-00 Signature Date Print Name ALEX P. WAICELUNAS
 20. ISI Engineer Ramakant P. Indap 9/21/00 Signature Date Print Name RAMAKANT P. INDAP
 21. ANII Robert G. Hogstrom 9-21-00 Signature Date Print Name ROBERT G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/01/00
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 2304797
Address Work Order Number

3. Work Performed by ABB-CE Type Code Symbol Stamp None
Name
Authorization No. N/A
911 W. Main St., Chattanooga, TN 37402 Expiration Date N/A
Address

4. Identification of System Reactor Coolant

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Steam Generator | CE | 79273-2 | NA | 2MRCEE01B | 1979 | Repaired | Yes |
| Tube Plugs | CE | * | NA | * | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Plug SG (2MRCEE01B) Hot Leg tubes per DIWO 2304797. See attached list.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks See DFWO 2304464 for tubes plugged (plugging list attached).

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Consulting Met. Engineer Date 11-01-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 11-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
(Inspector's Signature)

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

Date NOVEMBER 2, 2000

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

WORK ORDER 2304797

| ASME SECTION XI – REPAIR / REPLACEMENT | | | | |
|---|-----------------|-------------------|-----------------|---------------|
| COMP. ID | PART NO. | SERIAL NO. | HEAT NO. | MR NO. |
| 2MRCEE01B R62 / L15 | 0307-1601 | 9958 | J-9162-2 | 470466 |
| 2MRCEE01B R33 / L16 | 0307-1601 | 9959 | J-9162-2 | 470466 |
| 2MRCEE01B R2 / L39 | 0307-1601 | 9956 | J-9162-2 | 470466 |
| 2MRCEE01B R130 / L47 | 0307-1601 | 8947 | J-9161-5 | 470466 |
| 2MRCEE01B R38 / L49 | 0307-1601 | 8869 | J-9161-5 | 470466 |
| 2MRCEE01B R70 / L49 | 0307-1601 | 8872 | J-9161-5 | 470466 |
| 2MRCEE01B R5 / L50 | 0307-1601 | 8854 | J-9161-5 | 470466 |
| 2MRCEE01B R64 / L51 | 0307-1601 | 8855 | J-9161-5 | 470466 |
| 2MRCEE01B R16 / L55 | 0307-1601 | 8859 | J-9161-5 | 470466 |
| 2MRCEE01B R40 / L59 | 0307-1601 | 8870 | J-9161-5 | 470466 |
| 2MRCEE01B R45 / L60 | 0307-1601 | 8856 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L62 | 0307-1601 | 8857 | J-9161-5 | 470466 |
| 2MRCEE01B R34 / L67 | 0307-1601 | 8847 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L67 | 0307-1601 | 8851 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L68 | 0307-1601 | 8865 | J-9161-5 | 470466 |
| 2MRCEE01B R45 / L68 | 0307-1601 | 8858 | J-9161-5 | 470466 |
| 2MRCEE01B R53 / L68 | 0307-1601 | 8860 | J-9161-5 | 470466 |
| 2MRCEE01B R60 / L71 | 0307-1601 | 8950 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L74 | 0307-1601 | 8853 | J-9161-5 | 470466 |
| 2MRCEE01B R61 / L74 | 0307-1601 | 8949 | J-9161-5 | 470466 |
| 2MRCEE01B R58 / L75 | 0307-1601 | 8864 | J-9161-5 | 470466 |
| 2MRCEE01B R62 / L75 | 0307-1601 | 8948 | J-9161-5 | 470466 |
| 2MRCEE01B R85 / L78 | 0307-1601 | 8871 | J-9161-5 | 470466 |
| 2MRCEE01B R34 / L79 | 0307-1601 | 8866 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01B R66 / L81 | 0307-1601 | 8873 | J-9161-5 | 470466 |
| 2MRCEE01B R118 / L81 | 0307-1601 | 8874 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L82 | 0307-1601 | 8875 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L83 | 0307-1601 | 8876 | J-9161-5 | 470466 |
| 2MRCEE01B R62 / L83 | 0307-1601 | 8877 | J-9161-5 | 470466 |
| 2MRCEE01B R78 / L83 | 0307-1601 | 8878 | J-9161-5 | 470466 |
| 2MRCEE01B R82 / L83 | 0307-1601 | 8879 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L84 | 0307-1601 | 8880 | J-9161-5 | 470466 |
| 2MRCEE01B R81 / L84 | 0307-1601 | 8881 | J-9161-5 | 470466 |
| 2MRCEE01B R78 / L85 | 0307-1601 | 8882 | J-9161-5 | 470466 |
| 2MRCEE01B R66 / L87 | 0307-1601 | 8883 | J-9161-5 | 470466 |
| 2MRCEE01B R82 / L87 | 0307-1601 | 8884 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L91 | 0307-1601 | 9957 | J-9162-2 | 470466 |
| 2MRCEE01B R59 / L92 | 0307-1601 | 8885 | J-9161-5 | 470466 |
| 2MRCEE01B R62 / L93 | 0307-1601 | 8886 | J-9161-5 | 470466 |
| 2MRCEE01B R71 / L96 | 0307-1601 | 8887 | J-9161-5 | 470466 |
| 2MRCEE01B R78 / L97 | 0307-1601 | 8888 | J-9161-5 | 470466 |
| 2MRCEE01B R60 / L99 | 0307-1601 | 9951 | J-9162-2 | 470466 |
| 2MRCEE01B R61 / L102 | 0307-1601 | 8889 | J-9161-5 | 470466 |
| 2MRCEE01B R54 / L103 | 0307-1601 | 8802 | J-9161-5 | 470466 |
| 2MRCEE01B R73 / L106 | 0307-1601 | 8890 | J-9161-5 | 470466 |
| 2MRCEE01B R71 / L108 | 0307-1601 | 8891 | J-9161-5 | 470466 |
| 2MRCEE01B R43 / L110 | 0307-1601 | 8810 | J-9161-5 | 470466 |
| 2MRCEE01B R78 / L111 | 0307-1601 | 8892 | J-9161-5 | 470466 |
| 2MRCEE01B R88 / L111 | 0307-1601 | 8893 | J-9161-5 | 470466 |
| 2MRCEE01B R152 / L111 | 0307-1601 | 8827 | J-9161-5 | 470466 |
| 2MRCEE01B R64 / L113 | 0307-1601 | 8746 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01B R72 / L113 | 0307-1601 | 8894 | J-9161-5 | 470466 |
| 2MRCEE01B R94 / L113 | 0307-1601 | 9953 | J-9162-2 | 470466 |
| 2MRCEE01B R64 / L115 | 0307-1601 | 9961 | J-9162-2 | 470466 |
| 2MRCEE01B R57 / L116 | 0307-1601 | 8863 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L118 | 0307-1601 | 8696 | J-9161-5 | 470466 |
| 2MRCEE01B R53 / L118 | 0307-1601 | 8852 | J-9161-5 | 470466 |
| 2MRCEE01B R55 / L118 | 0307-1601 | 8867 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L118 | 0307-1601 | 8868 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L120 | 0307-1601 | 8861 | J-9161-5 | 470466 |
| 2MRCEE01B R63 / L120 | 0307-1601 | 9960 | J-9162-2 | 470466 |
| 2MRCEE01B R54 / L121 | 0307-1601 | 8862 | J-9161-5 | 470466 |
| 2MRCEE01B R63 / L122 | 0307-1601 | 9954 | J-9162-2 | 470466 |
| 2MRCEE01B R67 / L122 | 0307-1601 | 9955 | J-9162-2 | 470466 |
| 2MRCEE01B R16 / L129 | 0307-1601 | 8828 | J-9161-5 | 470466 |
| 2MRCEE01B R38 / L129 | 0307-1601 | 8840 | J-9161-5 | 470466 |
| 2MRCEE01B R57 / L130 | 0307-1601 | 8831 | J-9161-5 | 470466 |
| 2MRCEE01B R28 / L131 | 0307-1601 | 8837 | J-9161-5 | 470466 |
| 2MRCEE01B R29 / L132 | 0307-1601 | 8826 | J-9161-5 | 470466 |
| 2MRCEE01B R56 / L133 | 0307-1601 | 8833 | J-9161-5 | 470466 |
| 2MRCEE01B R48 / L137 | 0307-1601 | 8832 | J-9161-5 | 470466 |
| 2MRCEE01B R29 / L138 | 0307-1601 | 8830 | J-9161-5 | 470466 |
| 2MRCEE01B R40 / L141 | 0307-1601 | 8829 | J-9161-5 | 470466 |
| 2MRCEE01B R46 / L145 | 0307-1601 | 8844 | J-9161-5 | 470466 |
| 2MRCEE01B R59 / L146 | 0307-1601 | 8850 | J-9161-5 | 470466 |
| 2MRCEE01B R17 / L148 | 0307-1601 | 8686 | J-9161-5 | 470466 |
| 2MRCEE01B R17 / L176 | 0307-1601 | 8685 | J-9161-5 | 470466 |
| 2MRCEE01B R113 / L148 | 0307-1601 | 8839 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01B R113 / L150 | 0307-1601 | 8835 | J-9161-5 | 470466 |
| 2MRCEE01B R20 / L165 | 0307-1601 | 8748 | J-9161-5 | 470466 |
| 2MRCEE01B R49 / L16 | 0307-1601 | 8806 | J-9161-5 | 470466 |
| 2MRCEE01B R95 / L28 | 0307-1601 | 8689 | J-9161-5 | 470466 |
| 2MRCEE01B R104 / L47 | 0307-1601 | 8825 | J-9161-5 | 470466 |
| 2MRCEE01B R105 / L50 | 0307-1601 | 8818 | J-9161-5 | 470466 |
| 2MRCEE01B R70 / L53 | 0307-1601 | 8820 | J-9161-5 | 470466 |
| 2MRCEE01B R131 / L56 | 0307-1601 | 8805 | J-9161-5 | 470466 |
| 2MRCEE01B R114 / L59 | 0307-1601 | 8808 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L60 | 0307-1601 | 8698 | J-9161-5 | 470466 |
| 2MRCEE01B R17 / L62 | 0307-1601 | 8822 | J-9161-5 | 470466 |
| 2MRCEE01B R140 / L65 | 0307-1601 | 8811 | J-9161-5 | 470466 |
| 2MRCEE01B R142 / L65 | 0307-1601 | 8817 | J-9161-5 | 470466 |
| 2MRCEE01B R20 / L71 | 0307-1601 | 8821 | J-9161-5 | 470466 |
| 2MRCEE01B R157 / L78 | 0307-1601 | 8804 | J-9161-5 | 470466 |
| 2MRCEE01B R138 / L79 | 0307-1601 | 8688 | J-9161-5 | 470466 |
| 2MRCEE01B R146 / L81 | 0307-1601 | 8694 | J-9161-5 | 470466 |
| 2MRCEE01B R126 / L85 | 0307-1601 | 8683 | J-9161-5 | 470466 |
| 2MRCEE01B R44 / L91 | 0307-1601 | 8690 | J-9161-5 | 470466 |
| 2MRCEE01B R43 / L92 | 0307-1601 | 8693 | J-9161-5 | 470466 |
| 2MRCEE01B R153 / L98 | 0307-1601 | 8845 | J-9161-5 | 470466 |
| 2MRCEE01B R115 / L100 | 0307-1601 | 8801 | J-9161-5 | 470466 |
| 2MRCEE01B R117 / L100 | 0307-1601 | 8699 | J-9161-5 | 470466 |
| 2MRCEE01B R45 / L102 | 0307-1601 | 8745 | J-9161-5 | 470466 |
| 2MRCEE01B R41 / L106 | 0307-1601 | 8747 | J-9161-5 | 470466 |
| 2MRCEE01B R29 / L112 | 0307-1601 | 8700 | J-9161-5 | 470466 |
| 2MRCEE01B R141 / L126 | 0307-1601 | 8838 | J-9161-5 | 470466 |

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

| | | | | |
|--------------------------|-----------|------|----------|--------|
| 2MRCEE01B R132 / L127 | 0307-1601 | 8841 | J-9161-5 | 470466 |
| 2MRCEE01B R67 / L10 | 0307-1601 | 8809 | J-9161-5 | 470466 |
| 2MRCEE01B R68 / L11 | 0307-1601 | 8816 | J-9161-5 | 470466 |
| 2MRCEE01B R102 / L53 | 0307-1601 | 8812 | J-9161-5 | 470466 |
| 2MRCEE01B R57 / L58 | 0307-1601 | 8815 | J-9161-5 | 470466 |
| 2MRCEE01B R107 / L62 | 0307-1601 | 8824 | J-9161-5 | 470466 |
| 2MRCEE01B R104 / L63 | 0307-1601 | 8819 | J-9161-5 | 470466 |
| 2MRCEE01B R118 / L65 | 0307-1601 | 8813 | J-9161-5 | 470466 |
| 2MRCEE01B R67 / L94 | 0307-1601 | 8684 | J-9161-5 | 470466 |
| 2MRCEE01B R140 / L109 | 0307-1601 | 8848 | J-9161-5 | 470466 |
| 2MRCEE01B R126 / L119 | 0307-1601 | 8744 | J-9161-5 | 470466 |
| 2MRCEE01B R81 / L124 | 0307-1601 | 8846 | J-9161-5 | 470466 |
| 2MRCEE01B R127 / L128 | 0307-1601 | 8834 | J-9161-5 | 470466 |
| 2MRCEE01B R120 / L129 | 0307-1601 | 8842 | J-9161-5 | 470466 |
| 2MRCEE01B R48 / L43 | 0307-1601 | 8836 | J-9161-5 | 470466 |
| 2MRCEE01B R90 / L145 | 0307-1601 | 8843 | J-9161-5 | 470466 |
| 2MRCEE01B R73 / L154 | 0307-1601 | 8691 | J-9161-5 | 470466 |
| 2MRCEE01B R6 / L155 | 0307-1601 | 8687 | J-9161-5 | 470466 |
| 2MRCEE01B R24 / L165 | 0307-1601 | 8692 | J-9161-5 | 470466 |
| 2MRCEE01B R12 / L19 | 0307-1601 | 8803 | J-9161-5 | 470466 |
| 2MRCEE01B R37 / L44 | 0307-1601 | 8807 | J-9161-5 | 470466 |
| 2MRCEE01B R91 / L46 | 0307-1601 | 8823 | J-9161-5 | 470466 |
| 2MRCEE01B R134 / L57 | 0307-1601 | 8814 | J-9161-5 | 470466 |
| 2MRCEE01B R144 / L67 | 0307-1601 | 8697 | J-9161-5 | 470466 |
| 2MRCEE01B R127 / L80 | 0307-1601 | 8695 | J-9161-5 | 470466 |
| 2MRCEE01B R42 / L81 | 0307-1601 | 8849 | J-9161-5 | 470466 |

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEA09 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2317256
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description Replace Defective Pressurizer Heater, Make Fillet Weld between Pressurizer Nozzle and new Heater Sleeve.

9. ☐ ISI Flaw

NDE Method of Flaw Detection N/A

Report Number N/A

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

Electrical Portion of Heater Failed, No Failure on ASME Pressure Retaining Boundary.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda

13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Class 1, '74 Edition, '75 Winter Addenda

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

15. Preservice Inspection Required.

☐ YES

☒ NO

N/A
Initial

10/10/00
Date

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

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

N/A
Initial

10/10/00
Date

If required, include a step in the W.O. for ISI & ANII Inspection.

KVS
Initial

10/10/00
Date

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

KVS
Initial

10/10/00
Date

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

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|------------|----------|------------|
| Heater | 44450049 | 1K | | 468031 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner

Karl V. Savage
Signature

10/10/00
Date

Print Name Karl V. Savage

20. ISI Engineer

Ramakant P. Indap
Signature

10/11/00
Date

Print Name Ramakant P. Indap

21. ANII

Robert G. Hogstrom
Signature

10-11-00
Date

Print Name Robert G. Hogstrom

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/10/00
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 2317256
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Expiration Date N/A
Address
4. Identification of System RC, ASME Section III, Class 1
5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/73 Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Heater | Watlow | 1K | N/A | 2MRCEA09 | 2000 | Replacement | Do |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

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# 2317256

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed [Signature] ISI Engineer Date 10-22-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 10-22-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 10-22-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0628 2. Code Class 1
3. Item Description SIT 2B CHECK VALVE LEAK LINE ISOLATION VALVE.
4. N-5 Package Number 2RC01-3 5. W.O. Number 2322156
6. Original Construction Code Edition ASME Section III, Class 1, 1974 Edition, Summer 75 Addenda
7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 75 Addenda
8. Work Description Leak off piping replacement is required when the valve is repacked per 13-PN-220.

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

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
No failure in ASME boundary. R. P. INDAP 3/10/2000

11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sect. III, Cl 1, 1974 Ed., S 75 Add.
13. Repair/Replacement Activity Construction Code/Edition ASME Sect. III, Cl 1, 1974 Ed., W 75 Add.
14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 92 Addenda
15. Preservice Inspection Required. ☐ YES ☒ NO

J. I. 09/26/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

J. I. 09/26/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

J. I. 09/26/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

J. I. 09/26/00 18. Include a step in the W.O. to record below all applicable numbers.
Initial Date

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | ROS/EROS NO. |
|-----------|----------|------------|----------|--------------|
| PIPE CAP | N/A | N/A | CH4 | 424679 |
| | | | | |
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19. Planner [Signature] 09/26/00 Print Name James I. Davis
Signature Date
20. ISI Engineer [Signature] 10-3-2000 Print Name R. P. INDAP
Signature Date
21. ANII [Signature] 10-3-00 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 10/29/00
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 2322156
Address Work Order Number

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

Authorization No. N/A

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

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sect. 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 Controls | 6540508 | 4472 | 2JSIBUV0628 | 1979 | Repaired | Yes |
| Pipe Cap | N/A | N/A | N/A | 2JSIBUV0628 | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

7. Description of Work Replaced the leakoff piping per the requirements of 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 2322156 replaced the leakoff piping.

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 BROWNING RLB Date 10/29/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-3-00 to 10-29-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 29, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0576 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE, 1315 PSIG RATED (BS-08587)
 4. N-5 Package Number 2SG01-1A 5. W.O. Number 2325843
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of valve spindle during reconditioning/overhaul.

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 spindle came from another spare valve (bs-08610). The replaced spindle was
Slightly bent. Replaced 10-10-2000

11. Repair/Replacement Work Organization Wyle laboratorie, Weastern Service Center.
 12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED., S'75
 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 10/10/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
DMG 10/10/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
DMG 10/10/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
DMG 10/10/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|------------|----------|------------|
| SPINDLE | NA | 1G2509 | NA | NA |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |

19. Planner David M Goodlet 10-10-00 Print Name David Goodlet
 Signature Date
 20. ISI Engineer Ramakant Indap 10-10-00 Print Name Ramakant Indap
 Signature Date
 21. ANII Robert Hogstrom 10-10-00 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 10/10/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2325843
Address Work Order Number

3. Work Performed by Wyle lab., Western Service Center Type Code Symbol Stamp None
Name
Beaumont, Ca. 92223 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System "SG" - MAIN STEAM

5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, S'75 Addenda, 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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Spindle | Dresser | 1G2509 | NA | 2JSGEP5V576 | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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7. Description of Work REPLACED SPINDLE DURING VALVE OVERHAUL.

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# 2325843 documented the overhaul of safety valve 2JSGEPSV0576 at Wyle labs. The spindle was found slightly bent so it was replaced with a spindle removed from a spare valve (s/n# B08610).

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. Indrup Consulting Met-Engineer Date 10-13-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-10-00 to 10-14-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Indrup
Inspector's Signature

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

Date OCTOBER 14, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEB18 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2328915
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description Remove Plug From Heater Sleeve to Support Eddy-Current Test of the Sleeve, Install new Plug Fabricated in the PVNGS machine Shop.

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

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

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

15. Preservice Inspection Required. ☐ YES ☒ NO
N/A 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
KVS 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
KVS 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replaced items.

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|------------|----------|------------|
| Plug | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

19. Planner Karl V. Savage 10/13/2000 Print Name Karl V. Savage
Signature Date
 20. ISI Engineer Ramakant P. Indap 10-13-00 Print Name Ramakant P. Indap
Signature Date
 21. ANII Robert G. Hogstrom 10-14-00 Print Name Robert G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
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 2328915
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Expiration Date N/A
Address
4. Identification of System RC, ASME Section III, Class 1
5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/'73 Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PLUG | | | | | | Replacement | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replace Pressurizer Heater Sleeve Plug. 2MRCEB18.
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.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MCHNX01 2. Code Class ASME SEC. III CL.2

3. Item Description VOLUME CONTROL TANK

4. N-5 Package Number 2CH03-4A 5. W.O. Number 2332261

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 TANK MANWAY WITH FABRICATED MANWAY DUE TO
WARPAGE OF SEATING AREA.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____

Report Number _____

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

THE SUITABILITY OF THE RE-PLACEMENT IS FOUND IN THE DISPOSITION TO THE
DEFECT. THE CAUSE OF FAILURE OF THE MANWAY IS WARPAGE, THE REPLACEMENT
COUPLER IS THICKER AND WILL RESIST WARPAGE.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition SEC III CL. 2/'74 ED. '75 W'ADD

13. Repair/Replacement Activity Construction Code/Edition SEC III CL. 2/'74 ED. W'75 ADD

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

15. Preservice Inspection Required. ☐ YES ☒ NO

HB 10/24/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

HB 10/24/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

HB 10/24/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

HB 10/24/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|----------------------|---------------|------------|----------|------------|
| Manway bolts (2) | APN# 43110047 | N/A | E 9 | 478240 |
| Manway nuts (4) | APN# 43120595 | N/A | D 6 | 478240 |
| Manway (fabricated) | APN# 43640330 | N/A | 25527 | MR# 20902 |
| Manway mounting aids | APN# 43115000 | N/A | 868450 | 478267 |
| | | | | |
| | | | | |
| | | | | |

19. Planner J. Boulanger 10/24/00 Print Name JIM BOULANGER
Signature Date

20. ISI Engineer R. L. Browning 10/25/00 Print Name R. L. BROWNING
Signature Date

21. ANII Bob Hogstrom 10-25-00 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 10/24/00
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 2332261
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System CH, Chemical Volume Control System, ASME SEC.III, CL.2
5. (a) Applicable Construction Code ASME SEC III CL2 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) |
|---------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Manway(fabricated) | APS | N/A | N/A | 2MCHNX01 | 2000 | Replacement | No |
| Manway bolts(2) | N/A | N/A | N/A | 2MCHNX01 | 2000 | Replacement | No |
| Manway nuts (4) | N/A | N/A | N/A | 2MCHNX01 | 2000 | Replacement | No |
| manway mounting aid | N/A | N/A | N/A | 2MCHNX01 | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Due to original being warped, replaced w/fabricated manway, mounting aids & bolts/

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 New manway fabricated per ENG dfwo# 2332259 and DIDF wo# 2332261

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 _____

Signed R. Priddy, Consulting Met. Engineer Date 10-31-2000
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 10-25-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 31, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PSIBV405 2. Code Class 2
 3. Item Description HPSI PUMP 2 CHECK VALVE
 4. N-5 Package Number 2SI09-3 5. W.O. Number 2332277
 6. Original Construction Code Edition ASME SECTION III, CLASS 2 1974 EDITION, WINTER 75 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 2 1974 EDITION, WINTER 75 ADDENDA
 8. Work Description REPLACE THE BONNET ARM AND DISC ASSEMBLY

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Valve bonnet, swing arm, and disc were being replaced
due to mechanical condition. No failure or
ISI flaw found. Alan Morrow 10/28/00

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

15. Preservice Inspection Required. ☐ YES ☒ NO
J.I.D. 10-28-00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
J.I.D. 10-28-00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

J.I.D. 10-28-00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

J.I.D. 10-28-00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|------------------------|----------|------------|----------|------------|
| Bonnet, arm, disc asmy | 75939 | 217038-1 | N/A | 479164 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

19. Planner [Signature] 10-28-00 Print Name JAMES I. DAVIS
Signature Date
 20. ISI Engineer Alan Morrow 10/28/00 Print Name Alan Morrow
Signature Date
 21. ANII Bob Hogstrom 10-29-00 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 10/30/00
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 2332277
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sect III, Cl 2, 1974 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | 31775 | N/A | 2PSIBV405 | 1978 | Repaired | Yes |
| Bonnet/disc assy. | Borg-Warner | 217038-1 | N/A | 2PSIBV405 | 1991 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replaced the bonnet, arm and disc assembly

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 2332277 replaced the bonnet, arm and disc assembly

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed R-L Broomberg ALP 151 EMD

Owner or Owner's Designee, Title

Date 11/1/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-29-00 to 11-1-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R-L Broomberg
Inspector's Signature

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

Date NOVEMBER 1, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0659 2. Code Class ASME SECTION III, CLASS 2
 3. Item Description 4 INCH TARGET ROCK SOLENOID VALVE MODEL 77L-002
 4. N-5 Package Number 2SI09-3 5. W.O. Number 002333124
 6. Original Construction Code Edition 1974 EDITION, ADDENDA ^{SUMMER} WINTER 1976
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1975
 8. Work Description REMOVE AND REPLACE VALVE.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO ASME SECTION III PRESSURE BOUNDARY FAILURE. VALVE REPLACED DUE TO SLOW
STROKE TIME OF THE VAVLE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION ADDENDA WINTER 1976
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1975
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

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

16. ASME Section XI Pressure Test Required ☒ YES ☒ NO ¹⁰⁻²⁷⁻⁰⁰
 If required, include a step in the W.O. for ISI & ANII Inspection. ^{GA}
 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.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|------------|----------|------------|
| Valve | 77L-002 | 007 | | 474874 |
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19. Planner G. Osmondson ^{Signature} 10/27/00 ^{Date} Print Name G. Osmondson
 20. ISI Engineer R. P. Indap ^{Signature} 10-27-00 ^{Date} Print Name R. P. INDAP
 21. ANII _____ ^{Signature} _____ ^{Date} Print Name _____

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 10/02/00
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 002333124
Address Work Order Number

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

Authorization No. N/A

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

4. Identification of System SI, ASME SECTION III, CLASS 2

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|-------------|-------------------------|-------------------------------|
| VALVE | Target Rock | <u>3</u> <u>007</u> | N/A | 2jsibuv0659 | <u>1979</u> | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

7. Description of Work REMOVE AND REPLACE 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.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCBHV0108 2. Code Class ASME SECTION III CLASS 1
 3. Item Description 1 INCH SOLENOID OPERATED VALVE MODEL 98F-001 (TARGET ROCK)
 4. N-5 Package Number 2-RC03-2 5. W.O. Number SWMS#00-02310951
 6. Original Construction Code Edition 1977 EDITION, ADDENDA WINTER 1978
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1974
 8. Work Description REMOVE AND REPLACE VALVE PER PLANT CHANGE TO NEW STYLE VALVE
1 INCH MODEL# 98F-001

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
BEING REPLACED PER PLANT CHANGE. NO FAILURE OF ASME SECTION III BOUNDARY. VALVE
REPLACEMENT IS TO ENHANCE VALVE PERFORMANCE WITH A NEW VALVE DESIGN.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1977 EDITION, ADDENDA WINTER 1978
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1974
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
LEO 9/26/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
LEO 9/26/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
LEO 9/26/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
LEO 9/26/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-------------|----------|------------|----------|---------------|
| 2JRCBHV0108 | 98F-001 | 11 | N/A | 00470579-0006 |
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19. Planner G. Osmundson 9/29/00 Print Name GERALD OSMUNDSON
Signature Date
 20. ISI Engineer R.P. Indap 9/29/00 Print Name R. P. INDAP
Signature Date
 21. ANII R.G. Hogstrom 9-29-00 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 09/27/00
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 00-02310951
Address Work Order Number

3. Work Performed by APS 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 RC, ASME SECTION III, CLASS 1

5. (a) Applicable Construction Code Section 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 | Target Rock | 11 | N/A | 2JRCBHV0108 | 2000 | Replacement | Yes |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

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

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 00-02310951

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R.L. BROWNING RLB ISI ENG Date 10/30/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-29-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.L. Browning
Inspector's Signature

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

Date OCTOBER 31, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCBHV0109 2. Code Class ASME SECTION III CLASS 1
 3. Item Description 1 INCH SOLENOID OPERATED VALVE MODEL 98F-001 (TARGET ROCK)
 4. N-5 Package Number 2-RC03-2 5. W.O. Number SWMS#00-002310953
 6. Original Construction Code Edition 1977 EDITION, ADDENDA WINTER 1978
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1974
 8. Work Description REMOVE AND REPLACE VALVE PER PLANT CHANGE TO NEW STYLE VALVE
1 INCH MODEL# 98F-001

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
BEING REPLACED PER PLANT CHANGE. NO FAILURE OF ASME SECTION III BOUNDARY. VALVE
REPLACEMENT IS TO ENHANCE VALVE PERFORMANCE WITH A NEW VALVE DESIGN.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1977 EDITION, ADDENDA WINTER 1978
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1974
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
LEO 9/26/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
LEO 9/26/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
LEO 9/26/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
LEO 9/26/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-------------|----------|------------|----------|---------------|
| 2JRCBHV0109 | 98F-001 | 5/11 12 | N/A. | 00470580-0006 |
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19. Planner G Osmundson 10/6/2000 Print Name GERALD OSMUNDSON
 Signature Date
 20. ISI Engineer R.L.B. 10-6-00 Print Name R.L. BROWNIE
 Signature Date
 21. ANII R.G. Hogstrom 10-6-00 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 09/27/00
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 00-02310953
Address Work Order Number

3. Work Performed by APS 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 RC, ASME SECTION III, CLASS 1

5. (a) Applicable Construction Code Section 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 | Target Rock | 12 | N/A | 2JRCBHV0109 | 2000 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks WO#00-02310953

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.B. ROODING RLB ISI ENR. Date 10/31/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-6-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. L. B. Rooding Commissions NB 9685 "N" "I" Az. 2641
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 31, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0636 2. Code Class ASME SECIII, CL2, 74 ED, W, 75 ADD

3. Item Description REWORK VALV INTERNALS TO PREVENT LEAKAGE THROUGH SEAT

4. N-5 Package Number 2RC01-3B 5. W.O. Number 00-02318165

6. Original Construction Code Edition 1974 EDITION, WINTER 75 ADDENDA

7. Original Installation Code Edition 1974 EDITION, WINTER 75 ADDEMDA

8. Work Description REMOVE BONNET SEAL WELD AND REWORK VALVE INTERNALS TO PREVENT LEAKAGE THROUGH SEATING SURFACES, REPLACE SEAL 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 FAILURE IN ASME BOUNDARY, NEW INTERNALS WERE INSTALLED PER DMWO 00787532
SEATING SURFACES ARE NOW LEAKING THROUGH AND NEED REWORKING TO ELIMINATE
LEAKAGE

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION, WINTER 75 ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITON, WINTER 1975 ADDENDA

14. ASME Section XI Code/Edition 1992 EDITION AND 92 ADDENDA

15. Preservice Inspection Required.

☐ YES

☒ NO

EE 9-29-00 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☒ YES

☒ NO

EE 9/29/00 If required, include a step in the W.O. for ISI & ANII Inspection.

EE 9/29/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

EE 9/29/00 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. |
|------------------|----------|------------|----------|---------------|
| ITEM & DISC ASSY | 2000368 | 169 | M873E | 00361241-0001 |
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19. Planner G. Osmundson 9/29/00 Print Name G. OSMUNDSON

20. ISI Engineer R.P. Indap 9/29/00 Print Name R. P. INDAP

21. ANII R. G. Hogstrom 9-29-00 Print Name R. G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/21/00
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 00-2318165
Address Work Order Number

3. Work Performed by PALO VERDE NUCLEAR GEN PLANT 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 2RC01-3B

5. (a) Applicable Construction Code ASME SECTIII NC 19 74 Edition, W,75 Addenda, NA Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| VALVE | BORG WARNER | 51729 | N/A | 2JSIBUV0636 | 1979 | Repaired | Yes |
| DISC | BORG WARNER | 169 | N/A | 2JSIBUV0636 | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REWORK VALVE INTERNALS TO STOP 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 DIASSEMBLED VALVE, REPLACED STEM AND DISC ASSEMBLY TO CORRECT SEAT
LEAKAGE ON EXISTING BORG WARNER VALVE S/N 51729 REINSTALLED SEAL
WELD

WO 00-02318165

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 Sr. ISE Engineer Date 10/21/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-29-00 to 10-21-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 21, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PCHNV355 2. Code Class ASME SEC III CL 2
 3. Item Description 3" GATE VALVE - LOW PRESSURE BORG WARNER
 4. N-5 Package Number 2CH13-2 5. W.O. Number 2334018
 6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description GATE GUIDE ON VALVE BODY HAS PULLED AWAY FROM THE BODY AND IS
KEEPING THE VALVE FROM ACTUATING COMPLETELY. GUIDE WILL BE
REWORKED AND WELDED TO CORRECT CONDITION.

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.

GATE GUIDE IS NOT PRESSURE RETAINING MATERIAL
THEREFORE NO PRESSURE BOUNDARY FAILURE HAS OCCURRED.
REPAIR WILL RESTORE GUIDE TO ORIGINAL CONFIGURATION
DLB 11/2/00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME SEC.III CL2/'74 ED. '75 W'ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SEC.III CL2/'74 ED. '75 W'ADD
 14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

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

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

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

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

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------------------|----------|------------|----------|------------|
| Valve body gate guide | N/A | N/A | N/A | N/A |
| | | | | |
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19. Planner James A. Boulanger 11/1/00 Print Name JAMES BOULANGER
 Signature Date
 20. ISI Engineer Alan Morrow 11/1/00 Print Name Alan Morrow
 Signature Date
 21. ANII Bob Hogstrom 11-1-00 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 11/01/00
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 2334018
Address Work Order Number

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

Authorization No. N/A

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

4. Identification of System CH, Chemical Volume Control System, ASME Sec. III CL2

5. (a) Applicable Construction Code ASME SEC III CL2 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 body gate guide | Borg Warner | N/A | N/A | 2PCHNV355 | 1980 | Repaired | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Valve guide on body of valve has pulled away and needs to be welded back in place

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 ENG DFWO# 2334003 / DI WO# 2334018(IMPLEMENTATION DOCUMENT)

BORG WARNER VALVE S/N 61539 BUILT 1980

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 Barrowick ISI ENG
Owner or Owner's Designee, Title

Date 11/2/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 11-1-00 to 11-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RL Barrowick
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 2641
National Board, State, Province, and Endorsements

Date 11-2-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0332 2. Code Class 1
3. Item Description HOT LEG INJECTION CHECK VALVE LEAK LINE ISOLATION VALVE.
4. N-5 Package Number 2RC01-1B 5. W.O. Number 00926899
6. Original Construction Code Edition ASME Section III, Class 1, 1974 Edition, Summer 75 Addenda
7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 75 Addenda
8. Work Description Leak off piping replacement is required when the valve is repacked per 13-PN-220.

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

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Existing ~~PIP~~ packing leakoff connection is being replaced
by a plug as specified in piping installation spec. 13-PN-220.
No failure is involved. R.P. Indap 5/4/00 RPZ 5/4/00
204

11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sect. III, CI 1, 1974 Ed., S 75 Add.
13. Repair/Replacement Activity Construction Code/Edition ASME Sect. III, CI 1, 1974 Ed., W 75 Add.
14. ASME Section XI Code/Edition ASme Section XI, 1992 Edition, 92 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO

J.I.D. 05/04/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

J.I.D. 05/04/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

J.I.D. 05/04/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

J.I.D. 05/04/00 18. Include a step in the W.O. to record below all applicable numbers.
Initial Date

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | ROS/EROS NO. |
|-----------|----------|------------|----------|--------------|
| Pipe Cap | 43550610 | n/a | CHY | PL0414566 |
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19. Planner James I. Davis 05/04/00 Print Name James I. Davis
Signature Date
20. ISI Engineer R.P. Indap 05/04/00 Print Name R. P. INDAP
Signature Date
21. ANII R.G. Hogstrom 5-4-00 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 _____
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO 00926899
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address
4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sect III, CI 1 1974 Edition, s75 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 Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|-----------------------------------|--------------------------------------|
| Valve | Fisher Controls | 6540506 | 4470 | 2JSIBUV0332 | 1979 | Repaired | Yes |
| Pipe Cap | N/A | N/A | N/A | 2JSIBUV0332 | 2000 | Replacement | ^{7/9} 10-27-00 Yes No |
| | | | | | | | |
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7. Description of Work Replaced the leakoff piping per the requirements of 13-PN-204

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 Work Order 00926899 replaced the leakoff piping.

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] ISA Engineer Date 10-27-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 5-4-00 to 10-27-00, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date 10-27-00

10-27-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0659 2. Code Class ASME SECTION III, CLASS 2
 3. Item Description 4 INCH TARGET ROCK SOLENOID VALVE MODEL 77L-002
 4. N-5 Package Number 2SI09-3 5. W.O. Number 00-00242320
 6. Original Construction Code Edition 1974 EDITION, ADDENDA WINTER 1976
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1975
 8. Work Description REMOVE BONNET TO BODY SEAL WELD AND INSPECT INTERNALS FOR THE CAUSE OF SLOW CLOSE STROKE. SOME INTERNAL PARTS WILL BE REPLACED.

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 ASME SECTION III PRESSURE BOUNDARY FAILURE. VENDOR REP WILL ASSIST IN IDENTIFYING PART TO BE REPLACED TO IMPROVE VALVE CLOSE STROKE TIME.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION ADDENDA WINTER 1976
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1975
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
ECG 10-16-2000 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
ECG 10-16-2000 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- ECG 10-16-2000 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
ECG 10-16-2000 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 | 102153-1 | 131 | | 00472056-0004 |
| MAIN DISC | 300328-1 | S/N56 | | 00472056-0003 |
| | | | | |
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19. Planner G. Osmondson 10/16/2000 Print Name G. Osmondson
Signature Date
 20. ISI Engineer Alan Morrow 10/16/00 Print Name Alan Morrow
Signature Date
 21. ANII Robert G. Hogstrom 10/16/00 Print Name ROBERT G. HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0659 2. Code Class ASME SECTION III, CLASS 2

3. Item Description 4 INCH TARGET ROCK SOLENOID VALVE MODEL 77L-002

4. N-5 Package Number 2SI09-3 5. W.O. Number 00-00242320

6. Original Construction Code Edition 1974 EDITION, ADDENDA WINTER 1976

7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1974/5 RPT 40-4-2000

8. Work Description REMOVE BONNET TO BODY SEAL WELD AND INSPECT INTERNALS FOR THE CAUSE OF SLOW CLOSE STROKE. SOME INTERNAL PARTS WILL BE REPLACED.

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 ASME SECTION III PRESSURE BOUNDARY FAILURE. VENDOR REP WILL ASSIST IN IDENTIFYING PART TO BE REPLACED TO IMPROVE VALVE CLOSE STROKE TIME.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION ADDENDA WINTER 1976

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1974/5 RPT 10-4-00

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

15. Preservice Inspection Required.

☐ YES

☒ NO

8EO 10/4/2000 If required, include a step in the W.O. to perform Preservice Inspection.

Initial

Date

RPT 10-4-2000

16. ASME Section XI Pressure Test Required

☒ YES

☒ NO

8EO 10/4/2000 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial

Date

8EO 10/4/2000 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial

Date

8EO 10/4/2000 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. |
|-------------|----------|------------|----------|------------|
| 2JSIBUV0659 | | | | |
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19. Planner G Osmundson 10/4/2000 Print Name G Osmundson

Signature

Date

20. ISI Engineer R P Indap 10-4-2000 Print Name R. P. INDAP

Signature

Date

21. ANII R G Hogstrom 10-5-00 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 10/02/00
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 00-00242320
Address Work Order Number

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

4. Identification of System SI, ASME SECTION III, CLASS 2

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| VALVE | Target Rock | 3 | N/A | 2jsibuv0659 | 1979 | Replacement | Yes |
| MAIN DISC | TARGET ROCK | S/N-56 | N/A | 2jsibuv0659 | N/A | Replacement | No |
| PILOT DISC | TARGET ROCK | 131 | N/A | 2jsibuv0659 | N/A | Replacement | No |
| | | | | | | | |
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7. Description of Work Remove and reinstall bonnet to body seal weld for internal rework.

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 0 #00-00242320 REMOVED SEAL WELD , INSPECTED INTERNALS , REMOVED
AND REPLACED THE MAIN DISC AND PILOT DISC , REASSEMBLED VALVE AND
REINSTALLED THE SEAL WELD

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 Sr. ISI Engineer Date 10/16/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-5-00 to 10-16-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
(Inspector's Signature)

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

Date OCTOBER 16, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JCHAU0516 2. Code Class ASME SEC.III CL.1
 3. Item Description 2" FISHER CONTROL (GLOBE) VALVE
 4. N-5 Package Number 2RC01-1C 5. W.O. Number 222517 / 899861
 6. Original Construction Code Edition ASME SEC III CL1 -1974 EDITION, SUMMER 1975
 7. Original Installation Code Edition ASME SEC III CL1 -1974 EDITION, WINTER '75
 8. Work Description REMOVED SEAL LEAK OFF LINE AND INSTALLED WELDED PLUG

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 EXIST. THE LEAK OFF LINE PLUG IS NOW
TO NEW VALVE PACKING CONFIGURATION' RLB 10-16-00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME SEC III CL1 -1974 EDITION, WINTER 1975
 13. Repair/Replacement Activity Construction Code/Edition ASME SEC III CL1 -1974 EDITION, WINTER 1975
 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.

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

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

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-------------------------|----------|------------|----------|---------------|
| Seal leak off line plug | 43550610 | N/A | CHY | 00396348-0055 |
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19. Planner [Signature] 10/16/00 Print Name JAMES BOULANGER
 20. ISI Engineer [Signature] 10/16/00 Print Name R-L-BROOKING
 21. ANII [Signature] 10-16-00 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 10/16/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 1
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 222517 / 88881
Address Work Order Number

3. Work Performed by Palo Verde Nuclear Generating Station 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 CH, Chemical Volume Control System

5. (a) Applicable Construction Code ASME SEC III CL. 1 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) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 2" globe valve | Fisher | 6540513 | N/A | 2JCHAUUV516 | 1979 | Replacement | Yes |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Removed seal leak off nipple and installed butt weld plug

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. # 222517/899861

Seal leak off line removed and butt weld plug installed.

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. Brown RLB ISI ENCL
Owner or Owner's Designee, Title

Date 10/14/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-16-00 to 10-16-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. L. Brown
Inspector's Signature

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

Date 10/16/00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEB18 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER SLEEVE
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2330262
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description 1. Temper Bead Weld Pad Around Heater 2MRCEB18 Sleeve Opening. 2. Inconel 690 Plug
Welded to the Pad to Close the Heater Opening. SEE DFWO# 2327179 Disposition.

9. ☐ ISI Flaw NDE Method of Flaw Detection N/A
 Report Number N/A
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Cracked Sleeve is Partially Removed and the Opening is Being Plugged with Corrosion Resistant Inconel 690
Material. See Detailed Evaluation in DFWO 2327179 & CRDR 2326705.

11. Repair/Replacement Work Organization Welding Services Incorporated
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME XI, '92Addenda & Subsection NB '75 Winter Adde
 14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
N/A 10/17/2000 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 10/17/2000 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
KVS 10/17/2000 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
KVS 10/17/2000 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replaced items.

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-------------|----------|------------|-----------|------------|
| Sleeve Plug | N/A | N/A | NX0911 HK | MR# 472746 |
| | | | | |
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19. Planner Karl V. Savage 10/17/2000 Print Name Karl V. Savage
Signature Date
 20. ISI Engineer R. P. Indap 10/18/00 Print Name Ramakant P. Indap
Signature Date
 21. ANII R. G. Hogstrom 10/18/00 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 11/02/00
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 2330262
Address Work Order Number

3. Work Performed by Welding Services Incorporated Type Code Symbol Stamp None
Name
2225 Skyland Court, Norcross, Georgia 30071 Authorization No. N/A
Address Expiration Date N/A

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

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Temp. Bead Pad | APS | N/A | N/A | 2MRCEB18 | 2000 | Repaired | No |
| Plug | APS | N/A | N/A | NX0911HK | 2000 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
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7. Description of Work Install Tempered Bead Pad and Inconel 690 Plug

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# 2330262. 1. Temper Bead Weld Pad Around B18 heater Opening. 2. Inconel 690 Plug welded to the Pad to Close the Sleeve Opening. See DFWO#2327179.

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 NA

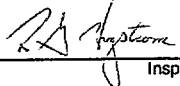
Certificate of Authorization No. NA Expiration Date N/A

Signed  ISI Engineer Date 11-3-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-18-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01A 2. Code Class ASME Section III, Class 2
 3. Item Description Steam Generator Blowdown Sample Nozzle.
 4. N-5 Package Number 2SG01-1A 5. W.O. Number 2330314
 6. Original Construction Code Edition 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
 8. Work Description Temper Bead Pad Weld Repair of Leaking Nozzle per DFWO# 2330312

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.
Nozzle attachment weld on I.D. of the vessel was leaking because of porosity that opened up due to normal corrosion (Based on previous history of these Instrument Nozzles). The Repair is by attaching the Nozzle from outside using temper bead pad. see DFWO 2330312

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition Section III Cl.2/'71 Edition '73 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition Section XI 1992 Edition '92 Addenda
 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
KVS/A 10/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
KVS 10/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
KVS 10/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
KVS 10/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
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19. Planner Karl V. Savage 10/20/00 Print Name Karl V. Savage
 Signature Date
 20. ISI Engineer Ramakant P. Indap 10-20-00 Print Name Ramakant P. Indap
 Signature Date
 21. ANII Robert G. Hogstrom 10-20-00 Print Name Robert G. Hogstrom
 Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/20/00
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 2330314
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah Arizona, 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System SG, ASME Section III, Class 2
5. (a) Applicable Construction Code Section III, Class 2 19 71 Edition, 73 '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) |
|--------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Sample Line Nozzle | C.E. | N/A | N/A | 2MRCEE01 | 1979 | Repaired | No |
| | | | | | | | |
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7. Description of Work Temper Bead Weld Repair of the Steam Generator Nozzle for Blowdown Sample

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 2330314. Temper Bead Weld Repair of the Steam Generator Nozzle for The
Blowdown Sample Line Per DFWO 2330312.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R-L Brown ISI Engineer Date 11/3/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-20-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0576 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE, 1315 PSIG RATED
 4. N-5 Package Number 2SG01-1A 5. W.O. Number WO# 231138
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of safety valve with spare per maintenance 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 ASME 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
 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 10/05/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Dmg 10/05/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
Dmg 10/05/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Dmg 10/05/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|----------|------------|----------|------------|
| 2JSGEPSV0576 | N/A | BS-08587 | N/A | PL0428452 |
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19. Planner David Goodlet 10-5-00 Print Name David Goodlet
Signature Date
 20. ISI Engineer Ramakant Indap 10-5-00 Print Name Ramakant Indap
Signature Date
 21. ANII Robert Hogstrom 10-5-00 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 10/05/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 wo# 231138
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, 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-08587 | N/A | 2jsgepsv576 | 1978 | Replacement | Yes |
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7. Description of Work Replace main steam safety valve with spare.

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# 231138 for the replacement of main steam safety valve 2JSGEPSV0576. Selected by maintenance engineering following on-line trevi-testing of valves.

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

Signed

R.L. Bazzani R.L.B. 5164
Owner or Owner's Designee, Title

Date

11/3/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-5-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.L. Bazzani
Inspector's Signature

Commissions

NB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date

11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0200 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231241
 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 PER WORK ORDER 231241. Also welded cap on drain pipe. RPI 10-26-00

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#14537.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|--------------|------------|----------|------------|
| 2JRCEPSV0200 | APN#45003560 | BY14537 | N/A | MA#472781 |
| VALVE | | | | |
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19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 231241
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD. TONOPAH AZ, 85354 Expiration Date N/A
Address
4. Identification of System RC ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV-VALVE | DRESSER | BY14537 | N/A | 2JRCEPSV200 | 1991 | Replacement | Yes |
| PIPE CAP | N/A | N/A | N/A | 2JRCEPSV200 | 2000 | Repaired | No |
| NIPPLE | N/A | N/A | N/A | 2JRCEPSV200 | 2000 | Repaired | No |
| | | | | | | | |
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7. Description of Work RE-WORKED DRAIN NIPPLE AND PIPE CAP, 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 VALVE W.O. 231241 BEING ROTATED TO FACILATE TESTING. THE REPLACEMENT VALVE IS SN# BY14537. RE-WORKED EXISTING DRAIN NIPPLE AND WELDED PIPE CAP.

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 11-3-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0201 2. Code Class 1
3. Item Description PRESSURIZER SAFETY RELIEF VALVE
4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231242
6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
8. Work Description REPLACE DRAIN NIPPLE AND VALVE PER W.O. 231242.

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 1971 EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION SUMMER '75 ADDENDA AS PER THE SECTION XI 97 EDITION 96 ADDENDA REQUIREMENTS. RECONCILIATION AS PER MEE #02504. 95 109-00

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|--------------|------------|----------|-------------|
| 2JRCEPSV0201 | APN#45003560 | BQ07679 | N/A | MA # 472789 |
| VALVE | | | | |
| NIPPLE | APN#43571055 | N/A | 461449 | MA # 472692 |
| CAP | APN#43550622 | N/A | HYD | MA # 472692 |
| | | | | |
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19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 231242
Address Work Order Number
 3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
 Authorization No. N/A
5801 S. WINTERSBURG RD. TONOPAH AZ, 85354 Expiration Date N/A
Address

4. Identification of System RC ASME SECTION III CLASS 1

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV-VALVE | DRESSER | BQ07679 | N/A | 2JRCEPSV201 | 1978 | Replacement | Yes |
| PIPE CAP | N/A | 461449 | N/A | 2JRCEPSV201 | 2000 | Repaired | No |
| NIPPLE | N/A | HYD | N/A | 2JRCEPSV201 | 2000 | Repaired | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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7. Description of Work VALVE AND DRAIN NIPPLE REPLACEMENT.

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. 231242 VALVE AND DRAIN NIPPLE REPLACEMENT (2JRCEPSV0201). THE
VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
1971 EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION
SUMMER 75' ADDENDA AS PER THE SECTION XI 95 EDITION 96 ADDEDNA
REQUIREMENTS. RECONILATION PER MEE #02504.

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 11-3-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0202 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231243
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE DRAIN NIPPLE AND VALVE PER W.O. 231243.

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 1971
EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION SUMMER '75 ADDENDA
AS PER THE SECTION XI 97 EDITION 96 ADDENDA REQUIREMENTS. RECONCILIATION AS PER
MEE #02504. 95-185 10-9-00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|--------------|------------|----------|------------|
| 2JRCEPSV0202 | APN#45003560 | BQ07678 | N/A | MAN#472901 |
| VALVE | | | | |
| NIPPLE | APN#43571055 | N/A | 461449 | MAN#472693 |
| CAP | APN#43550622 | N/A | HYD | MAN#472693 |
| | | | | |
| | | | | |
| | | | | |

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.P. Indap 10-10-00 Print Name R.P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-10-00 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. #231243
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 1974 Edition, 75'S Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV-VALVE | DRESSER | BQ07678 | N/A | 2JRCEPSV202 | 1978 | Replacement | Yes |
| PIPE CAP | N/A | 461449 | N/A | 2JRCEPSV202 | 2000 | Replacement | No |
| NIPPLE | N/A | HYD | N/A | 2JRCEPSV202 | 2000 | Replacement | No |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work VALVE AND DRAIN NIPPLE REPLACEMENT.

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. 231243 VALVE AND DRAIN NIPPLE REPLACEMENT (2JRCEPSV0202). THE
VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
1971 EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION
SUMMER 75' ADDENDA AS PER THE SECTION XI 95 EDITION 96 ADDEDNA
REQUIREMENTS. RECONCILIATION PER MEE #02504.

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 3/12

Signed

Wily [Signature]

ISI ENGINEER

Owner or Owner's Designee, Title

Date 11-3-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 11-03-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

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

Date

11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231244
 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 PER WORK ORDER W.O. 231244. Also welded cap on
drain pipe RPT
10-26-00

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#BY14538.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 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 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-------------|--------------|------------|----------|-------------|
| 2JRCEPSV203 | APN#45003560 | BY14538 | N/A | MAN# 472782 |
| VALVE | | | | |
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19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 231244
Address Work Order Number
 3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH AZ, 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 1974 Edition, 75'S Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV-VALVE | DRESSER | BY14538 | N/A | 2JRCEPSV203 | 1991 | Replacement | Yes |
| PIPE CAP | N/A | N/A | N/A | 2JRCEPSV203 | 2000 | Repaired | No |
| NIPPLE | N/A | N/A | N/A | 2JRCEPSV203 | 2000 | Repaired | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work RE-WORKED DRAIN NIPPLE AND PIPE CAP, 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 VALVE W.O. 231244 BEING ROTATED TO FACILATE TESTING. THE REPLACEMENT VALVE IS SN# BY14538. RE-WORKED EXISTING DRAIN NIPPLE AND WELDED PIPE CAP.

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

Tracy [Signature]

ISI ENGINEER

Owner or Owner's Designee, Title

Date 11-3-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

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

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGAUV0500S 2. Code Class ASME III, CLASS 2
 3. Item Description 6"-900# PRESSURE SEAL GATE VALVE
 4. N-5 Package Number 2SG02-1A 5. W.O. Number 243062
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDUM
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description DISASSEMBLE VALVE FOR PACKING REPLACEMENT AND DECON. BROKE OFF BOLTS IN BONNET DURING DISASSEMBLY. FOR EASE OF REASSEMBLY WILL USE NEW UNCONTAMINATED BONNET..

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 PRESSURE BOUNDARY FAILURE. BONNET IS BEING REPLACED FOR EASE OF REASSEMBLY AND TO REDUCE CONTAMINATED COMPONENTS IN THIS VALVE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 EDITION, S'1975 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III, CLASS 2, 1974 EDITION, W'1975 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 10/28/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Dmg 10/28/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
Dmg 10/28/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
Dmg 10/28/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|--------------|----------|------------|----------|------------|
| VALVE BONNET | | 229H-3 | K171 | PL0433129 |
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19. Planner David Goodlet 10-28-00 Print Name DAVID GOODLET
 Signature Date
 20. ISI Engineer Alan Morrow 10/28/00 Print Name Alan Morrow
 Signature Date
 21. ANII Robert Hogstrom 10-29-00 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 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 243062
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 "SG" - MAIN STEAM
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) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| BONNET | Anchor/Darling | 229H-3 | N/A | 2JSGAUV500S | 2000 | Replacement | Yes |
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7. Description of Work VALVE DISASSEMBLY FOR REPACK AND DECON.
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# 243062 DISASSEMBLED VALVE 2JSGAUV0500S FOR REPACK AND DECON.
REPLACED BONNET, STEM AND MISC HARDWARE.

REPLACED BONNET ON ANCHOR DARLING JLV. S/N E-6374-50-3 BUILT 1980

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 _____

Signed [Signature] ISI ENGINEER Date 11-4-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-29-00 to 11-4-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date NOVEMBER 4, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PSGEV693 2. Code Class ASME III Class 2
3. Item Description Anchor/Darling: 8"-900# Tilt Disc Check Valve, Pressure Seal.
4. N-5 Package Number 2SG02-1A 5. W.O. Number 2326588
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description REPLACEMENT OF THE TWO (2) HINGE PIN BONNETS DUE TO DAMAGE
ENCURRED DURING THE MAINTENANCE DISASSEMBLY OF THE VALVE FOR "ISI"
INSPECTION.

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 pressure boundary. Replacement due to maintenance damage during disassembly of the
valve. Used vender supplied replacement parts.

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 CLASS2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 10/11/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Dmg 10/14/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
Dmg 10/14/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
Dmg 10/14/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

| ITEM I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-----------|----------|------------|--------------------|------------|
| 2PSGEV693 | 6496-1-5 | N/A | A576 & TR CD. A576 | PL0427345 |
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19. Planner David Goodlet 10-14-00 Print Name DAVID GOODLET
 Signature Date
20. ISI Engineer Ramakant Indap 10-16-00 Print Name RAMAKANT INDAP
 Signature Date
21. ANII Robert Hogstrom 10-17-00 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 10/14/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2326588
Address Work Order Number
3. Work Performed by Arizona Public Service Co. Type Code Symbol Stamp None
Name
Palo Verde Generating Station Authorization No. N/A
Address Expiration Date N/A
4. Identification of System "SG" - Main Steam
5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 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) |
|------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Hinge Pin Bonnet | Anchor/Darling | n/a | n/a | 2PSGEV693 | 2000 | Replacement | No |
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7. Description of Work Disassembly & inspection of check valve for our ISI program.
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# 2326588 disassembled and inspected the check valve for our "ISI" inspection program.
The two (2) hinge pin bonnets were damaged during removal and were replaced with
vendor supplied spare parts.

REPLACED HINGE PIN BONNETS ON ANCHOR DARLING J.V. S/N 2N1516
BUILT 1979

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 Willie Date 11/3/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 11-4-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEA06 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER SLEEVE
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2327197
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description 1. Temper Bead Weld Pad Around Heater 2MRCEA06 Sleeve Opening. 2. Inconel 690 Plug
Welded to the Pad to Close the Heater Opening. SEE DFWO# 2327179 Disposition.

9. ☐ ISI Flaw

NDE Method of Flaw Detection N/A

Report Number N/A

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

Cracked Sleeve is Partially Removed and the Opening is Being Plugged with Corrosion Resistant Inconel 690
Material. See Detailed Evaluation in DFWO 2327179 & CRDR 2326705.

11. Repair/Replacement Work Organization Welding Services Incorporated

12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda

13. Repair/Replacement Activity Construction Code/Edition ASME XI, '92Addenda & Subsection NB '75 Winter Adde

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

15. Preservice Inspection Required.

☐ YES

☒ NO

N/A
Initial

10/12/00
Date

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

16. ASME Section XI Pressure Test Required

☒ YES

☐ NO

KVS
Initial

10/12/00
Date

If required, include a step in the W.O. for ISI & ANII Inspection.

KVS
Initial

10/12/00
Date

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

KVS
Initial

10/12/00
Date

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

| COMP I.D. | PART NO. | SERIAL NO. | HEAT NO. | MR/ROS NO. |
|-------------|----------|------------|----------|------------|
| Sleeve Plug | N/A | N/A | NX0911HK | MR# 472744 |
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19. Planner

Karl V. Savage
Signature

10/12/00
Date

Print Name Karl V. Savage

20. ISI Engineer

Ramakant P. Indap
Signature

10/12/00
Date

Print Name Ramakant P. Indap

21. ANII

Robert G. Hogstrom
Signature

10-12-00
Date

Print Name Robert G. Hogstrom

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/02/00

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

2. Plant Palo Verde Nuclear Generating Station Unit 2

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2327179
Name
Address Work Order Number

3. Work Performed by Welding Services Incorporated Type Code Symbol Stamp None

2225 Skyland Court, Norcross, Georgia 30071 Authorization No. N/A
Name
Address

2225 Skyland Court, Norcross, Georgia 30071 Expiration Date N/A
Address

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

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Temp. Bead Pad | APS | N/A | N/A | 2MRCEA06 | 2000 | Repaired | No |
| Plug | APS | N/A | N/A | NX0911HK | 2000 | Replacement | No |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Install Tempered Bead Pad and Inconel 690 Plug

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# 2327197. 1. Temper Bead Weld Pad Around A06 heater Opening. 2. Inconel 690 Plug welded to the Pad to Close the Sleeve Opening. See DFWO#2327179.

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 NA

Certificate of Authorization No. NA Expiration Date 2/2

Signed *John Botet* ISI Engineer Date 11-3-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-12-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 11-3-00