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102-05642-SAB/TNW/RJR
February 09, 2007

Document Control Desk
U.S. Nuclear Regulatory Commission
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 – Thirteenth Refueling Outage
Inservice Inspection 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 in the enclosure PVNGS Unit 2 Inservice Inspection Summary Report for the thirteenth refueling outage. This refueling outage was conducted from September 30, 2006 through November 14, 2006.

This letter does not make any commitments to the NRC.

Please contact Thomas N. Weber at (623) 393-5764 if you have any questions or require additional information.

Sincerely,

*TNW Weber for
SA Bauer*

SAB/TNW/RJR/gt

Enclosure

cc: B. S. Mallett NRC Region IV Regional Administrator
M.T. Markley NRC NRR Project Manager
G. G. Warnick NRC Senior Resident Inspector for PVNGS

PALO VERDE NUCLEAR GENERATING STATION

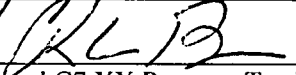
UNIT 2 INSERVICE INSPECTION REPORT

THIRTEENTH REFUELING OUTAGE

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

PREPARED BY: 

DATE: 2/1/07

REVIEWED BY: 
(All except B15.XX and C7.XX Pressure Testing)

DATE: 2-6-07

REVIEWED BY: 
(B15.XX and C7.XX Pressure Testing)

DATE: 2/1/07

APPROVED BY: 

DATE: 2/6/07

COMMERCIAL SERVICE DATE: 09/19/1986

REPORT DATE: 02/01/2007

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UNIT 2 INSERVICE INSPECTION REPORT

1. Introduction

This report is a summary of the Inservice Inspection (ISI) examinations performed during the Thirteenth refueling outage at the Palo Verde Nuclear Generating Station (PVNGS) Unit 2. This report also includes all applicable examinations conducted since the last refueling outage. This was the second refueling for Interval 2, Period 3, which was conducted from September 30, 2006 through November 14, 2006. 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 summarize 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 the ISI examinations performed during the Second Interval through November 14, 2006. All of the examination report numbers listed in Appendix "A" for the Thirteenth refueling and examinations performed since the last Summary Report are in bold print.

2. Examination Summary

The evaluation of the results from the ISI examinations indicated the integrity of the systems has been maintained. All discrepancies were corrected or determined "use-as-is" in accordance with PVNGS work control practices and ASME Section XI.

Visual examination of 2SG036H011 (ASME Class 2 Item F1.20 Zone 44) identified that the load coupling assembly failed. The apparent cause of the failure was high cycle fatigue. Work order 2912408 issued to replace the damaged washer and load yoke. CRDR 2935286 initiated to evaluate this condition and actions were added to CRDR 2786278 to determine the root cause.

Documentation of non-rejectable indications detected during examination performance is maintained on file.

The EPRI methodology for Risk Informed ISI & BER were applied for Category AHE, B-F, B-J, C-F-1 and C-F-2 examinations during the third period. This included the exclusion of surface examinations for the applicable pipe welds. Relief Request # 32 for Risk Informed ISI has been submitted and approved by the NRC.

3. 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:

| | | |
|-------------|------|----------------------|
| Visual - VT | VT-1 | General Condition |
| | VT-2 | Leakage |
| | VT-3 | Structural Condition |
| Surface | PT | Liquid Penetrant |
| | MT | Magnetic Particle |
| Volumetric | UT | Ultrasonic |
| | RT | Radiography |

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. Accessibility

All items were examined to the extent practical. Code limitations encountered during the examination that exceed the criteria of code case N490 are documented in Appendix B.

5. Personnel

All nondestructive examinations were performed by Arizona Public Service Co. (APS), Lambert, MacGill, Thomas, Inc. (LMT), or TEAM Industrial. 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. Hartford Steam Boiler Inspection and Insurance Company of Connecticut provided the Authorized Nuclear Inservice Inspector (ANII).

6. 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. Repairs and Replacements

One partial replacement was performed because of examinations performed by ISI during U2R13. The examination was in response to prior similar failures on similar supports. The failed items were replaced and additional items examined. The replacement was as follows and is further addressed in Section 2 of the Summary.

| <u>ZONE</u> | <u>WO / CRDR</u> | <u>ITEM SUMMARY #</u> | <u>DISCREPANCY</u> |
|-------------|-------------------|-----------------------|---------------------------------------|
| 43 | 2912408 / 2935286 | 2-043-SG-036-H011 | Damaged washer and load yoke replaced |

The applicable records and reports for the specific maintenance repair or replacements performed after the last summary report are maintained on file at Palo Verde. The applicable NIS-2 forms are an attachment to Appendix D and are submitted for review with this report.

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

APPENDIX A

Definition of Terms

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

ASME Item No - The ASME Section XI Category/Item Numbers are listed in the Code, Subsections IWB 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
C - ASME Class 2 systems
F - ASME Class 1 and 2 supports

Zone No - Area designation per PVNGS design

Comp/Sys - Component or system description

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

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

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|---|--------------------|----------|---------|----------|---------|-----------|--------------|--------|----------|
| ASME Class 2 Augmented High Energy Piping | | | | | | | | | |
| AHE 5.51 & 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 | | |
| | 50 MS (West) SG2 | Three* | 5 | 5 | 50-16 | UT-05-039 | | | * RI-BER |
| | | | | | 50-20 | UT-05-041 | | | |
| | | | | | 50-24 | UT-05-042 | | | |
| | | | | | 50-25 | UT-05-043 | | | |
| | | | | | 50-28 | UT-05-045 | | | |
| | 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 | | |
| | | | | | 51-40 | 99-2294 | 99-2082 | | |
| | | | | | 51-85 | 99-2295 | 99-2285 | | |
| | | | | | 51-86 | 99-2296 | 99-2285 | | |
| | | Two | 14 | 14 | 51-26 | UT-03-142 | MT-03-112 | | |
| | | | | | 51-27 | UT-03-143 | MT-03-113 | | |
| | | | | | 51-28 | UT-03-144 | MT-03-121 | | |
| | | | | | 51-29 | UT-03-145 | MT-03-120 | | |
| | | | | | 51-30 | UT-03-147 | MT-03-114 | | |
| | | | | | 51-31 | UT-03-148 | MT-03-115 | | |
| | | | | | 51-32 | UT-03-150 | MT-03-097 | | |
| | | | | | 51-33 | UT-03-151 | MT-03-094 | | |
| | | | | | 51-34 | UT-03-152 | MT-03-090 | | |
| | | | | | 51-37 | UT-03-153 | MT-03-074 | | |
| | | | | | 51-39 | UT-03-155 | MT-03-111 | | |
| | | | | | 51-87 | UT-03-161 | MT-03-075 | | |
| | | | | | 51-88 | UT-03-157 | MT-03-086 | | |
| | | | | | 51-89 | UT-03-156 | MT-03-088 | | |
| | 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 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|---------|-------------------------------|------------------------|--------|----------|
| | | | | | 53-23 | 99-2306 | 99-2083 | | |
| | | | | | 53-24 | 99-2307 | 99-2154 | | PSE |
| | | | | | 53-25 | 99-2308 | 99-2083 | | |
| | | Two | 9 | 9 | 53- 2 | UT-02-093 | MT-02-012 | | |
| | | | | | 53- 4 | UT-02-094 | MT-02-016 | | |
| | | | | | 53- 5 | UT-02-095 | MT-02-011 | | |
| | | | | | 53- 6 | UT-02-096 | MT-02-017 | | |
| | | | | | 53- 7 | UT-02-097 | MT-02-010 | | |
| | | | | | 53- 8 | UT-02-098 | MT-02-009 | | |
| | | | | | 53- 9 | UT-02-099 | MT-02-014 | | |
| | | | | | 53-1 | UT-02-092 UT-03-180 | MT-02-013 MT-03-070 | | |
| | | | | | 53-10 | UT-02-100 | MT-02-008 | | |
| | 56 FW 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 | | |
| | 57 FW SG2 | Three* | 2 | 2 | 57-1 | UT-05-046 | | | * RI-BER |
| | | | | | 57-4 | UT-05-047 | | | |
| | 60 Dwncmr FW | One | 9 | 9 | 60- 7 | 99-2525 | 99-2477 | | |
| | SG1 | | | | 60- 8 | 00-2192 | 00-2083 | | |
| | | | | | 60- 9 | 00-2193 00-2194 | 00-2083 | | |
| | | | | | 60-11 | 00-2195 00-2196 | 00-2083 | | |
| | | | | | 60-12 | 00-2197 00-2198 | 00-2083 | | |
| | | | | | 60-14 | 99-2526 00-2199 00-2200 | 99-2477 | | |
| | | | | | 60-15 | 99-2527 | 99-2477 | | |
| | | | | | 60-16 | 99-2528 | 99-2477 | | |
| | | | | | 60-17 | 99-2529 | 99-2477 | | |
| | | Two | 5 | 5 | 60- 2 | UT-03-177 | MT-03-123 | | |
| | | | | | 60- 3 | UT-03-178 | MT-03-124 | | |
| | | | | | 60- 4 | UT-03-179 | MT-03-125 | | |
| | | | | | 60- 5 | UT-03-181 | MT-03-126 | | |
| | | | | | 60- 6 | UT-03-182 | MT-03-127 | | |
| | 61 Dwncmr FW | Three* | 4 | 4 | 61-14 | UT-05-048 | MT-05-008 | | * RI-BER |
| | SG2 | | | | 61-15 | UT-05-049 | MT-05-009 | | |
| | | | | | 61-16 | UT-05-050 | MT-05-010 | | |
| | | | | | 61-17 | UT-05-051 | MT-05-011 | | |
| | 66 Blowdown SG1 | One | 10 | 10 | 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 | | |
| | | Two | 6 | 6 | 66-10 | UT-03-103 | MT-03-102 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------------|-------------------|----------|---------|----------|---------|-----------|--------------|--------|----------|
| | | | | | 66-11 | UT-03-112 | MT-03-103 | | |
| | | | | | 66-12 | UT-03-114 | MT-03-104 | | |
| | | | | | 66-13 | UT-03-117 | MT-03-110 | | |
| | | | | | 66-14 | UT-03-118 | MT-03-098 | | |
| | | | | | 66-15 | UT-03-119 | MT-03-099 | | |
| | 67 Blowdown SG2 | Two | 6 | 6 | 67- 7 | UT-03-108 | MT-03-101 | | |
| | | | | | 67- 8 | UT-03-106 | MT-03-105 | | |
| | | | | | 67- 9 | UT-03-105 | MT-03-106 | | |
| | | | | | 67-10 | UT-03-110 | MT-03-107 | | |
| | | | | | 67-11 | UT-03-102 | MT-03-108 | | |
| | | | | | 67-12 | UT-03-101 | MT-03-109 | | |
| AHE 5.61 | 51 Atmos Dump | Two | 20 | 20 | 51-65 | UT-03-141 | MT-03-076 | | |
| | SG1 | | | | 51-66 | UT-03-158 | MT-03-073 | | |
| | | | | | 51-67 | UT-03-168 | MT-03-083 | | |
| | | | | | 51-68 | UT-03-169 | MT-03-084 | | |
| | | | | | 51-69 | UT-03-170 | MT-03-085 | | |
| | | | | | 51-70 | UT-03-171 | MT-03-087 | | |
| | | | | | 51-71 | UT-03-172 | MT-03-089 | | |
| | | | | | 51-72 | UT-03-173 | MT-03-091 | | |
| | | | | | 51-73 | UT-03-176 | MT-03-092 | | |
| | | | | | 51-74 | UT-03-174 | MT-03-093 | | |
| | | | | | 51-75 | UT-03-175 | MT-03-095 | | |
| | | | | | 51-76 | UT-03-154 | MT-03-096 | | |
| | | | | | 51-77 | UT-03-159 | MT-03-072 | | |
| | | | | | 51-78 | UT-03-160 | MT-03-071 | | |
| | | | | | 51-79 | UT-03-162 | MT-03-069 | | |
| | | | | | 51-80 | UT-03-163 | MT-03-078 | | |
| | | | | | 51-81 | UT-03-164 | MT-03-079 | | |
| | | | | | 51-82 | UT-03-165 | MT-03-080 | | |
| | | | | | 51-83 | UT-03-166 | MT-03-081 | | |
| | | | | | 51-84 | UT-03-167 | MT-03-082 | | |
| 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 | | |
| | | | | | 47-27 | 99-2358 | 99-2284 | | |
| | 48 MS SG1 | Two | 8(1) | 8(1) | 48- 3 | UT-03-137 | MT-03-063 | | |
| | | | | | 48- 7 | UT-03-138 | MT-03-066 | | |
| | | | | | 48-11 | UT-03-135 | MT-03-062 | | |
| | | | | | 48-15 | UT-03-136 | MT-03-064 | | |
| | | | | | 48-19 | UT-03-139 | MT-03-065 | | |
| | | | | | 48-23 | UT-03-134 | MT-03-116 | | |
| | | | | | 48-27 | UT-03-133 | MT-03-068 | | |
| | | | | | 48-34 | UT-03-183 | MT-03-067 | | |
| | | | | | 48-35 | UT-03-132 | MT-03-077 | | |
| | 50 MS (West) SG 2 | Three* | 3 | 3 | 50-15 | UT-05-038 | | | * RI-BER |
| | | | | | 50-19 | UT-05-040 | | | |
| | | | | | 50-27 | UT-05-044 | | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|---------------------|------------------|----------|---------|----------|---------|--|--------------|--------|--|
| ASME Class 1 | | | | | | | | | |
| B 1.22 | 2 Closure Head | One | 1 | 1 | 2-4 | 99-2386 99-2387 99-2388 99-2389 | 99-2390 | | RR 14 |
| B 1.30 | 1 Reactor Vessel | One | 50% | 50% | 1-14 | * | | | Exam 0 to 180 deg |
| B 1.40 | 2 Closure Head | One | 33% | 33% | 2-1 | 99-2382 99-2383 99-2384 99-2385 | 99-2390 | | Exam 0 to 120 deg |
| | | Two | 33% | 33% | 2-1 | UT-02-076 | MT-03-145 | | Exam 120° to 240° |
| | | Three | 34% | 34% | 2-1 | UT-06-084 | MT-06-022 | | 240 thru 360 deg, CC N-460 |
| B 2.11 & 2.12 | 5 PZR | One | 66% | 66% | 5-2 | 99-2276 99-2277 99-2278 99-2279 | 99-2193 | | Exam 0 to 240 deg |
| | | | | | 5-3 | 99-2276 99-2277 99-2278 99-2279 | 99-2193 | | 1' long seam for 5-2 |
| | | Two | 66% | 66% | 5-8 | UT-02-025 | | | Exam 0° - 240° (0' - 19' 5") |
| | | | | | 5-6 | UT-02-030 UT-02-032 UT-02-035 UT-02-038 | | | 1' of long seam |
| | | Three | 34% | 34% | 5-2 | UT-06-089 | | | 240 thru 360 deg |
| | | | 34% | 34% | 5-8 | UT-06-090 | | | 240 thru 360 deg, CC N-460 |
| B 2.31 & 2.32 | 3 SG1 | One | 33% | 33% | 3- 5 | 99-2227 99-2228 99-2229 99-2230 | | | Exam 0 - 120 deg |
| | | | 2 | 2 | 3- 3 | 99-2251 99-2252 99-2253 99-2254 | | | |
| | | | | | 3-10 | 99-2247 99-2248 99-2249 99-2250 | | | |
| | | | | | 3-11 | 99-2227 99-2232 99-2233 99-2234 | | | |
| | | Two | 1 | 1 | 3-105 | UT-03-040 | | | PSE |
| | 4 SG2 | Two | 0 | 0 | 4-105 | UT-03-041 | | | PSE |
| B 2.40 | 3 SG1 | One | 50% | 50% | 3- 6 | 99-2231 99-2232 99-2233 99-2234 | | | Exam 0 - 180 deg |
| | | Two | 0 | 0 | 3-106 | UT-03-042 | | | PSE |
| | | | | | 3-107 | UT-03-193 UT-03-043 | | | PSE PSE |
| | 4 SG2 | Two | 50% | 50% | 4-106 | UT-03-044 | | | PSE |
| | | | | | 4-107 | UT-03-045 UT-03-194 | | | PSE PSE |
| | | Three | 1 | 1 | 4-106 | UT-06-087 | | | Stay Cylinder |
| B 3. 90 | 1 Reactor Vessel | One | 2 | 2 | 1-15 | * | | | *Seperate Wesdyne report Exam completed in 2R7 |
| | | | | | 1-18 | * | | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|------------------|----------|---------|----------|--------------|--|--------------|-----------|---------------------|
| B 3.100 | 1 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 | | | |
| | | Two | 2 | 2 | 5-10 | UT-02-036 UT-02-039 UT-02-033 UT-02-027 | | | Limited UT exam |
| | | | | | 5-13 | UT-02-031 UT-02-034 UT-02-040 UT-02-037 | | | Limited UT exam |
| | | Three | 2 | 2 | 5-12 | UT-06-091 | | | CC N-460 |
| | | | | | 5-14 | UT-06-092 | | | CC N-460 |
| B 3.120 | 5 PZR | One | 2 | 2 | 5- 9 | 00-2386 00-2387 | | | |
| | | | | | 5-11 | 00-2353 00-2357 | | | |
| | | Two | 2 | 2 | 5-10 | UT-02-067 | | | Inner radius |
| | | | | | 5-13 | UT-02-066 | | | Inner radius |
| | | Three | 2 | 2 | 5-12 | UT-06-073 | | | CC N-460 |
| | | | | | 5-14 | UT-06-074 | | | CC N-460 |
| B 3.130 | 3 SG1 | One | 1 | 1 | 3- 9 | 99-2243 99-2244 99-2245 99-2246 | | | |
| | | Two | 1 | 1 | 3-100 | UT-03-046 | | | PSE |
| | | | | | 3-101 | UT-03-047 | | | PSE |
| | | | | | 3-102 | UT-03-048 | | | PSE |
| | | Three | 1 | 1 | 3-101 | UT-06-085 | | | |
| | 4 SG2 | One | 1 | 1 | 4- 9 | 00-2516 00-2517 00-2518 00-2519 | | | |
| | | Two | 1 | 1 | 4-100 | UT-03-049 | | | PSE |
| | | | | | 4-101 | UT-03-050 | | | PSE |
| | | | | | 4-102 | UT-03-051 | | | PSE |
| | | Three | 1 | 1 | 4-101 | UT-06-086 | | | |
| B 3.140 | 3 SG1 | One | 1 | 1 | 3- 9 | 00-2521 00-2523 | | | |
| | | Two | 1 | 1 | 3-100 | UT-03-052 | | | PSE |
| | | | | | 3-101 | UT-03-053 | | | PSE |
| | | | | | 3-102 | UT-03-054 | | | PSE |
| | | Three | 1 | 1 | 3-101 | UT-06-071 | | | |
| | 4 SG2 | One | 1 | 1 | 4- 9 | 00-2522 00-2524 | | | |
| | | Two | 1 | 1 | 4-100 | UT-03-055 | | | PSE |
| | | | | | 4-101 | UT-03-056 | | | PSE |
| | | | | | 4-102 | UT-03-057 | | | PSE |
| | | Three | 1 | 1 | 4-101 | UT-06-072 | | | |
| B 4.11 | 2 Closure Head | Two | 0 | 0 | Vent Nozzles | | | VT-03-864 | NRC Order EA-03-009 |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|------------------|----------|---------|----------|----------------|---|------------------------|---|---|
| | | Three | 0 | 0 | Vent Nozzles | | * * | VT-05-493 VT-06-851 | Aug. BMI (EA-03-009) * Separate Wesdyne report |
| B 4.12 | 2 Closure Head | One | 8 | 8 | CEDM-Nozzles | | | 00-2569 | |
| | | Two | 8 | 8 | CEDM-Nozzles | | | VT-02-412 VT-03-859 | All nozzles Exam each time. |
| | | Three | 9 | 9 | CEDM-Nozzles | * * | * * | VT-05-491** VT-05-585 VT-06-851** VT-06-850 | *Separate Wesdyne report ** Aug. BMI all (EA-03-009) |
| B 4.13 | 1 Reactor Vessel | One | 5 | 5 | Instru-Nozzles | | | 00-2569 | |
| | | Two | 5 | 5 | Instru-Nozzles | | | VT-02-410 VT-03-862 | NRC Order EA-03-009, All nozzles Exam each time. |
| | | Three | 6 | 6 | Instru-Nozzles | | | VT-05-490 VT-05-584 VT-05-589 VT-06-849 VT-06-850 | + Aug BMI all (BL 2003-002) |
| B 4.20 | 5 PZR | One | 12 | 12 | Heater-Nozzles | | | 99-2522 00-2569 | |
| | | Two | 12 | 12 | Heater-Nozzles | | | VT-02-413 VT-03-858 | PSE & Aug. All stdpipe & htr noz. CE IB 89-06 |
| | | Three | 12 | 12 | Heater-Nozzles | | | VT-05-494 VT-06-854 | ISI & Aug. All stdpipe & htr noz. CE IB 89-06 |
| B 5.40 | 20 PZR Surge | One | 2 | 2 | 5-34 | 00-2426 00-2427 00-2428 00-2520 | 00-2111 | | |
| | 31 PZR Safeties | | | | 5-29 | 00-2383 00-2384 00-2385 00-2429 00-2099 | 00-2089 | | |
| | 29 PZR Spray | Two | 2 | 2 | 5-33 | RT-02-001 | PT-02-030 | | |
| | 31 PZR Safeties | | | | 5-31 | UT-02-062 UT-02-064 UT-02-063 UT-02-061 | PT-02-028 | | CC N-490 |
| | 20 PZR Surge | Three* | 0 | 0 | 5-34 | UT-05-024 | | VT-05-495 VT-06-900 | Aug UT & BMI VT (IN 2004-11 & MRP-139) * RR#32 |
| | 29 PZR Spray | | | | 5-33 | UT-05-033 RT-06-017 | | VT-05-505 VT-06-867 | Aug Vol & BMI VT (IN 2004-11 & MRP-139) |
| | 31 PZR Safeties | | | | 5-29 | RT-05-004 UT-05-034 | | VT-05-506 VT-06-868 | Aug UT & BMI VT (IN 2004-11 & MRP-139) |
| | | | | | 5-30 | RT-05-005 UT-05-035 | | VT-05-507 VT-06-935 | Aug Vol & BMI VT (IN 2004-11 & MRP-139) |
| | | | | | 5-31 | UT-05-036 RT-05-006 | | VT-05-508 VT-06-936 | Aug Vol & BMI VT (IN 2004-11 & MRP-139) |
| | | | | | 5-32 | RT-05-007 UT-05-037 | | VT-05-509 VT-06-869 | Aug UT & BMI VT (IN 2004-11 & MRP-139) |
| B 6. 10 | 2 Closure Head | One | 18 | 18 | 1 thru 18 | | 99-2332 | 99-2333 | |
| | | Two | 18 | 18 | 19 thru 36 | | MT-02-156 | VT-03-815 | |
| | | Three | 18 | 18 | 37 thru 54 | | MT-06-023 | VT-06-1279 | |
| B 6. 30 | 2 Closure Head | One | 17 | 17 | 1 thru 17 | 00-2296 | 99-2335 | | |
| | | Two | 19 | 19 | 18 thru 36 | UT-02-083 | MT-02-154 MT-02-155 | | |
| | | Three | 18 | 18 | 37 thru 54 | UT-06-065 | MT-06-024 | | |
| B 6.40 | 1 Reactor Vessel | Three | 54 | 54 | Stud Holes | UT-06-083 | | | |
| B 6. 50 | 2 Closure Head | One | 18 | 18 | 1 thru 18 | | | 99-2334 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|------------|-----------|--------------------------------|--|---|
| | | Two | 18 | 18 | 19 thru 36 | | | VT-03-819 | |
| | | Three | 18 | 18 | 37 thru 54 | | | VT-06-1280 | |
| B 6.180 | 16 RCP 1A | One | 5 | 5 | 1 thru 5 | 00-2394 | | 99-2444 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | UT-03-089 | | VT-02-357 VT-03-542 | UT 6-10 + Aug VT all (IEIN 80-27 & IEB 82-02) |
| | | Three | 6 | 6 | 11 thru 16 | UT-05-001 | | VT-05-474 VT-06-1284 | UT 11-16 + Aug VT all (IEIN 80-27 & IEB 82-02) |
| | 17 RCP 1B | One | 5 | 5 | 1 thru 5 | 00-2394 | | 99-2447 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | UT-03-090 | | VT-02-361 VT-03-543 | UT 6-10 + Aug VT all (IEIN 80-27 & IEB 82-02) |
| | | Three | 6 | 6 | 11 thru 16 | UT-05-002 | | VT-05-476 VT-06-1287 | UT 11-16 + Aug VT all (IEIN 80-27 & IEB 82-02) |
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | 00-2394 | | 99-2446 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | UT-03-092 | | VT-02-364 VT-03-545 | UT 6-10 + Aug VT all (IEIN 80-27 & IEB 82-02) |
| | | Three | 6 | 6 | 11 thru 16 | UT-05-003 | | VT-05-478 VT-06-1290 | UT 11-16 + Aug VT all (IEIN 80-27 & IEB 82-02) |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | 00-2394 | | 99-2445 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | UT-03-094 | MT-02-022 Thru MT-02-037 | VT-03-546 | UT 6-10 + Aug VT all (IEIN 80-27 & IEB 82-02) |
| | | Three | 6 | 6 | 11 thru 16 | UT-05-004 | | VT-05-480 VT-06-1293 | UT 11-16 + Aug VT all (IEIN 80-27 & IEB 82-02) |
| B 6.190 | 19 RCP 2B | Interval | 16 | 16 | Flange | | | VT-02-414 | |
| B 6.200 | 16 RCP 1A | One | 5 | 5 | 1 thru 5 | | | 99-2444 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | | | VT-02-358 VT-02-359 | Exam all, credit for 5 |
| | | Three | 6 | 6 | 11 thru 16 | | | VT-06-1285 | |
| | 17 RCP 1B | One | 5 | 5 | 1 thru 5 | | | 99-2447 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | | | VT-02-360 VT-02-363 | Exam all, credit for 5 |
| | | Three | 6 | 6 | 11 thru 16 | | | VT-06-1288 | |
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | | | 99-2446 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | | | VT-02-365 VT-02-362 | Exam all, credit for 5 |
| | | Three | 6 | 6 | 11 thru 16 | | | VT-06-1291 | |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | | | 99-2445 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | | | VT-02-245 VT-02-366 VT-02-367 | Exam all, credit for 5 |
| | | Three | 6 | 6 | 11 thru 16 | | | VT-06-1294 | |
| B 7.20 | 5 PZR | One | 20 | 20 | 20 studs | | | 99-2260 00-2249 | |
| | | Two | 20 | 20 | 20 studs | | MT-02-148 | 01-2051 VT-02-262 VT-02-282 VT-03-799 | Includes IEB082-02 supplemental examinations |
| | | Three | 20 | 20 | 20 studs | | | VT-05-473 VT-06-1283 | IEB 82-02 |
| B 7.30 | 3 SG1 | One | 40 | 40 | 40 studs | | | 99-2258 00-2247 | |

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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|------------|-----|--------------|---|------------------------|
| | 18 RCP 2A | One | 5 | 5 | 1 thru 5 | | | 99-2446 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | | | VT-02-215 Thru VT-02-230 VT-03-514 | Exam all, credit for 5 |
| | | Three | 6 | 6 | 11 thru 16 | | | VT-06-1292 | + Aug all |
| | 19 RCP 2B | One | 5 | 5 | 1 thru 5 | | | 99-2445 00-2441 | |
| | | Two | 5 | 5 | 6 thru 10 | | | 02-2001 VT-02-258 | |
| | | Three | 6 | 6 | 11 thru 16 | | | VT-06-1295 | + Aug all |
| B 7.70 | 21 SD Cooling A | One | 1 | 1 | UV-653 | | | 99-2321 | |
| | | Three | 1 | 1 | UV-651 | | | VT-06-1296 | |
| | 22 SD Cooling B | One | 1 | 1 | UV-654 | | | 00-2324 | |
| | | Two | 1 | 1 | UV-652 | | | VT-02-058 | |
| | 23 SI 1A | One | 1 | 1 | V-237 | | | 00-2567 | |
| | | Two | 2 | 2 | UV-634 | | | VT-02-236 | |
| | | | | | V-235 | | | VT-02-237 | |
| | | Three | 1 | 1 | V-542 | | | VT-06-1297 | |
| | 24 SI 1B | One | 1 | 1 | V-543 | | | 99-2069 | |
| | | Two | 2 | 2 | V-245 | | | VT-02-270 | |
| | | | | | V-644 | | | VT-02-242 | |
| | | Three | 1 | 1 | V-247 | | | VT-06-1298 | |
| | 25 SI 2A | One | 1 | 1 | V-540 | | | 99-2177 | |
| | | Two | 1 | 1 | V-217 | | | VT-02-260 | |
| | | Three | 2 | 2 | V-215 | | | VT-06-1299 | |
| | | | | | UV-614 | | | VT-06-1300 | |
| | 26 SI 2B | One | 1 | 1 | V-225 | | | 99-2091 | |
| | | Two | 2 | 2 | V-541 | | | VT-02-320 | |
| | | | | | V-624 | | | VT-02-321 | |
| | | Three | 1 | 1 | V-227 | | | VT-06-1301 | |
| | 27 PZR Spray 1A | Two | 1 | 1 | V-100E | | | VT-02-371 | |
| | | Three | 2 | 2 | V-240 | | | VT-06-1302 | |
| | | | | | V-243 | | | VT-06-1303 | |
| | 28 PZR Spray 1B | One | 2 | 2 | V-241 | | | 99-2181 99-2372 00-2046 | Reject Re-exam |
| | | | | | V-242 | | | 99-2182 99-2372 00-2046 | Reject Re-exam |
| B 7.70 | | Two | 1 | 1 | V-100F | | | VT-02-368 | |
| | 31 PZR Safeties | One | 1 | 1 | PSV-200 | | | 99-2505 00-2435 | |
| | | Two | 1 | 1 | PSV-202 | | | VT-03-540 | |
| | | Three | 2 | 2 | PSV-200 | | | VT-06-1709 | Aug |
| | | | | | PSV-201 | | | VT-06-1306 | |
| | | | | | PSV-202 | | | VT-06-1710 | Aug |
| | | | | | PSV-203 | | | VT-06-1309 | |
| | 32 Drain 1A | One | 2 | 2 | V-234 | | | 99-2081 | |
| | | | | | V-334 | | | 99-2081 | |
| | 33 Drain 1B | Two | 2 | 2 | V-235 | | | VT-02-312 | |
| | | | | | V-335 | | | VT-02-311 | |
| | 34 Drain 2A | Two | 2 | 2 | V-233 | | | VT-02-322 | |
| | | | | | V-333 | | | VT-02-323 | |
| | 35 Drain 2B | Three | 2 | 2 | V-232 | | | VT-06-1310 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|----------------|----------|---------|----------|---------|--|--------------|------------|--|
| | | | | | V-332 | | | VT-06-1311 | |
| | 36 Letdown | Three | 2 | 2 | V-515 | | | VT-06-1312 | |
| | | | | | V-516 | | | VT-06-1313 | |
| | 37 Charging | One | 1 | 1 | PDV240 | | | 99-2346 | |
| | 38 Drain 1A | One | 1 | 1 | V-215 | | | 00-2097 | |
| | | Three | 1 | 1 | V-216 | | | VT-06-1314 | |
| | 39 HPSI A | One | 1 | 1 | V-523 | | | 00-2085 | |
| | | Two | 2 | 2 | V-522 | | | VT-02-314 | |
| | | | | | V-957 | | | VT-02-313 | |
| | 40 HPSI B | Two | 1 | 1 | V-532 | | | VT-02-324 | |
| | | Three | 2 | 2 | V-533 | | | VT-06-1701 | |
| | | | | | V-958 | | | VT-06-1316 | |
| B 7.80 | 2 Closure Head | One | 1 | 1 | CEDM 92 | | | 00-2322 | |
| | | | | | CEDM 96 | | | 00-2322 | |
| | | Three | 1 | 1 | CEDM 92 | | | VT-06-1703 | |
| | | | | | CEDM 96 | | | VT-06-1265 | |
| B 8.20 | 5 PZR | One | 66% | 66% | 5-1 | 99-2394 99-2395 99-2396 99-2397 | 99-2193 | | Reject, Acceptable per MNCR 93-RC 2027 |
| | | Two | 0 | 0 | 5-1 | UT-02-056 UT-02-057 UT-02-058 UT-02-059 | MT-02-018 | | Limited exam, Re-exam at 19 to 26 Rej - Acc per MNCR 93-RC-2027 |
| | | Three | 34% | 34% | 5-1 | UT-06-088 | MT-06-025 | | 240 thru 360 deg, Limited UT |
| B 8.30 | 3 SG1 | One | 33% | 33% | 3-1 | 99-2239 99-2240 99-2241 99-2242 | 99-2194 | | Exam 0 - 120 deg |
| | | Two | 33% | 33% | 3-104 | | MT-03-030 | | PSE |
| | | Three | 34% | 34% | 3-104 | | MT-06-048 | | ID & OD of Skirt |
| B 9.11 | 6 RCS Piping | One | 7 | 7 | 1-27 | * | 00-2511 | | *Separate report by |
| & 9.12 | | | | | 1-30 | * | 00-2511 | | Wesdyne. Exams |
| | | | | | 3-30 | 99-2215 99-2216 99-2217 99-2218 | 99-2548 | | |
| | | | | | 4-30 | 99-2219 99-2220 99-2221 99-2222 | 99-2548 | | |
| | | | | | 6- 7 | * | 00-2511 | | completed in U2R7 |
| | | | | | 7- 7 | * | 00-2511 | | |
| | | | | | 17-2 | 00-2332 | 00-2290 | | |
| | | Two | 6 | 6 | 6- 1 | UT-03-189 | MT-03-134 | | PSE |
| | | | | | 7- 1 | UT-03-197 | MT-03-144 | | PSE |
| | | | | | 8-13 | UT-03-146 | MT-03-050 | | PSE |
| | | | | | 8-16 | UT-03-130 | MT-03-059 | | PSE |
| | | | | | 8-19 | UT-03-200 | MT-03-136 | | PSE |
| | | | | | 10-13 | UT-03-127 | MT-03-052 | | PSE |
| | | | | | 10-16 | UT-03-129 | MT-03-053 | | PSE |
| | | | | | 10-19 | UT-03-201 | MT-03-138 | | PSE |
| | | | | | 12-13 | UT-03-104 | MT-03-054 | | PSE |
| | | | | | 12-16 | UT-03-128 | MT-03-055 | | PSE |
| | | | | | 12-19 | UT-03-196 | MT-03-131 | | PSE |
| | | | | | 14-13 | UT-03-126 | MT-03-056 | | PSE |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|---------|---|--------------|------------------------|---|
| | | | | | 14-16 | UT-03-149 | MT-03-058 | | PSE |
| | | | | | 14-19 | UT-03-198 | MT-03-135 | | PSE |
| | | | | | 16-1 | UT-02-120 | MT-02-019 | | |
| | | | | | 17-1 | UT-02-116 | MT-02-020 | | |
| | | | | | 18-1 | UT-02-121 | MT-02-007 | | |
| | | | | | 19-1 | UT-02-079 | MT-02-021 | | |
| | | | | | 3-103 | UT-03-187 | MT-03-133 | | PSE |
| | | | | | 4-103 | UT-03-188 | MT-03-132 | | PSE |
| | | Three* | 7 | 7 | 1-28 | UT-06-104 | | | * RR #32 |
| | | | | | 1-29 | UT-06-105 | | | |
| | | | | | 9-1 | UT-06-109 | | | |
| | | | | | 10-16 | UT-06-110 | | | |
| | | | | | 11-1 | UT-06-111 | | | |
| | | | | | 11-7 | UT-06-152 | | | |
| | | | | | 13-7 | UT-06-153 | | | |
| | | | | | 16-2 | UT-06-112 | | | |
| | 20 PZR Surge | One | 1 | 1 | 20-1 | 00-2201 | 00-2111 | | |
| | | Three* | 1 | 1 | 6-10 | UT-05-025 | | VT-05-496 VT-06-859 | Aug BMI VT (IN 2004-11) * RR #32 |
| | 21 SD Cooling A | One | 3 | 3 | 6-11 | 00-2531 00-2532 00-2533 00-2535 00-2539 | 00-2112 | | |
| | | | | | 21-18 | 00-2536 00-2537 | 00-2528 | | |
| | | | | | 21-20 | 00-2534 00-2538 | 00-2113 | | |
| | | Two | 2 | 2 | 21-14 | UT-02-125 | PT-02-059 | | |
| | | | | | 21-15 | UT-02-126 | PT-02-060 | | |
| | | Three* | 1 | 1 | 6-11 | UT-05-026 | | VT-05-497 VT-06-860 | Aug BMI VT (IN 2004-11), CC N-460 * RR #32 |
| | | | | | 21-14 | UT-06-113 | | | Aug - Elbow & 1' each side |
| | | | | | 21-15 | UT-06-114 | | | Aug - Elbow & 1' each side |
| | | | | | 21-16 | UT-06-115 | | | Aug - Elbow & 1' each side |
| | | | | | 21-17 | UT-06-116 | | | Aug - Elbow & 1' each side |
| | 22 SD Cooling B | One | 2 | 2 | 22-11 | 00-2244 00-2245 | 00-2101 | | |
| | | | | | 22-14 | 00-2246 | 00-2101 | | |
| | | Two | 3 | 3 | 7-9 | UT-02-010 UT-02-011 UT-02-026 | PT-02-017 | | |
| | | | | | 22-1 | UT-02-007 | PT-02-016 | | |
| | | | | | 22-17 | UT-02-052 | PT-02-041 | | |
| | | Three* | 2 | 2 | 7-9 | UT-05-027 | | VT-05-498 VT-06-861 | Aug BMI VT (IN 2004-11), CC N-460 * RR #32 |
| | | | | | 22-6 | UT-06-117 | | | |
| | 23 SI 1A | One | 4 | 4 | 9-10 | 00-2234 00-2235 00-2236 00-2237 | 00-2100 | | |
| | | | | | 23-1 | 00-2238 | 00-2100 | | |
| | | | | | 23-2 | 00-2239 | 00-2100 | | |
| | | | | | 23-4 | 00-2240 00-2241 | 00-2100 | | |
| | | Two | 0(1) | 0(1) | 23-6 | UT-02-090 UT-02-091 | PT-02-064 | | Limited UT exam, IN 97-19 |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-------------------|----------|---------|----------|---------|-------------------------------------|--------------|------------------------|---|
| | | Three* | 1 | 1 | 9-10 | UT-05-069 | | VT-05-499 VT-06-862 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | 24 SI 1B | Two | 3(1) | 3(1) | 24-14 | UT-02-045 UT-02-050 | PT-02-037 | | Limited UT exam |
| | | | | | 24-16 | UT-02-046 UT-02-048 | PT-02-038 | | Limited UT exam |
| | | | | | 24-19 | UT-02-047 UT-02-051 | PT-02-034 | | Limited UT exam |
| | | | | | 24-6 | UT-02-001 UT-02-003 | PT-02-004 | | Limited UT exam, IN 97-19 |
| | | Three* | 2 | 2 | 11-10 | UT-05-028 | | VT-05-500 VT-06-863 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | | | | | 24-1 | UT-06-118 | | | |
| | 25 SI 2A | One | 2 | 2 | 25-26 | 99-2366 | 99-2078 | | |
| | | | | | 25-29 | 99-2365 | 00-2084 | | |
| | | Two | 2(1) | 2(1) | 13-10 | UT-02-112 UT-02-119 UT-02-122 | | | |
| | | | | | 25-1 | UT-02-109 | PT-02-058 | | |
| | | | | | 25-4 | UT-02-110 UT-02-113 | PT-02-072 | | Limited UT exam |
| | | | | | 25-6 | UT-02-111 UT-02-114 | PT-02-052 | | Limited UT exam, IN 97-19 |
| | | Three* | 1 | 1 | 13-10 | UT-05-070 | | VT-05-501 VT-06-864 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | 26 SI 2B | One | 2 | 2 | 26-9 | 99-2367 | 99-2320 | | |
| | | | | | 26-11 | 99-2368 | 99-2320 | | |
| | | Two | 1(1) | 1(1) | 26-17 | UT-02-044 UT-02-049 | PT-02-035 | | Limited UT exam |
| | | | | | 26-6 | UT-02-002 UT-02-004 | PT-02-003 | | Limited UT exam, IN 97-19 |
| | | Three* | 2 | 2 | 15-9 | UT-05-029 | | VT-05-502 VT-06-865 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | | | | | 26-1 | UT-06-119 | | | |
| | 28 & 29 PZR Spray | One | 2 | 2 | 29-10 | 00-2114 00-2116 | 00-2088 | | |
| | | | | | 29-11 | 00-2115 00-2117 | 00-2088 | | |
| | | Two | 1 | 1 | 29-1 | UT-02-068 UT-02-124 | PT-02-026 | | |
| | | Three* | 0 | 0 | 29-1 | UT-05-057 | PT-05-021 | | PSE *RR #32 |
| | | | | | 29-2 | UT-05-058 | PT-05-022 | | PSE Limited UT 50% TEE |
| | | | | | 29-3 | UT-05-059 | PT-05-023 | | PSE Limited UT 50% TEE |
| | | | | | 29-4 | UT-05-060 | PT-05-024 | | PSE |
| | | | | | 29-5 | UT-05-061 | PT-05-026 | | PSE |
| | | | | | 29-14 | UT-05-062 | PT-05-027 | | PSE |
| | 31 PZR Safeties | One | 1 | 1 | 31-1 | 00-2354 | 00-2089 | | |
| | | Two | 2 | 2 | 31-10 | UT-02-029 | PT-02-027 | | |
| | | | | | 31-9 | UT-02-028 | PT-02-029 | | |
| | | Three* | 1 | 1 | 31-6 | UT-06-122 | | | *RR #32 |
| | 36 Letdown | Two | 1 | 1 | 36-75 | UT-02-106 | PT-02-070 | | |
| B 9.21 | 27 PZR Spray 1A | One | 4 | 4 | 9-11 | | 00-2102 | | |
| & 9.22 | | | | | 27-42 | | 00-2102 | | |
| | | | | | 27-43 | | 00-2102 | | |
| | | | | | 27-44 | | 00-2102 | | |
| | | Two | 3 | 3 | 27-10 | | PT-02-006 | | |
| | | | | | 27-16 | | PT-02-008 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|------------------|----------|---------|----------|---------|--------------------|--------------|-------------------------|---|
| | | | | | 27-8 | | PT-02-007 | | |
| | | Three* | 2 | 2 | 9-11 | | | VT-05-503 VT-06-1318 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | | | | | 27-21 | UT-06-120 | | | |
| | | | | | 27-22 | UT-06-121 | | | |
| | 28 PZR Spray 1B | One | 4 | 4 | 28-31 | | 99-2213 | | |
| | | | | | 28-32 | | 99-2213 | | |
| | | | | | 28-39 | | 99-2213 | | |
| | | | | | 28-40 | | 99-2213 | | |
| | | Two | 4 | 4 | 11-11 | | PT-02-040 | | |
| | | | | | 28-11 | | PT-02-010 | | |
| | | | | | 28-20 | | PT-02-011 | | |
| | | | | | 28-9 | | PT-02-009 | | |
| | | Three* | 0 | 0 | 11-11 | | | VT-05-504 VT-06-866 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | 30 Aux PZR Spray | One | 2(2) | 2(2) | 30-1 | 00-2525 00-2529 | 00-2527 | | 88-08 letter |
| | | | | | 30-2 | 00-2526 00-2530 | 00-2527 | | 88-08 letter |
| | | | | | 30-7 | | 99-2076 | | |
| | | | | | 30-13 | | 99-2076 | | |
| | | Two | 2 | 2 | 30-5 | | PT-02-074 | | |
| | | | | | 30-6 | | PT-02-073 | | |
| | | Three* | 0 | 0 | 30-1 | UT-05-063 | PT-05-028 | | PSE Limited UT 50% TEE |
| | | | | | 30-2 | UT-05-064 | PT-05-029 | | PSE Limited UT 50% Valve |
| | | | | | 30-7 | | PT-05-030 | | PSE, RR #32 |
| | 32 Drain 1A | One | 3 | 3 | 8-18 | | 99-2079 | | |
| | | | | | 32-1 | | 99-2079 | | |
| | | | | | 32-2 | | 99-2079 | | |
| | | Three* | 0 | 0 | 8-18 | | | VT-05-510 VT-06-870 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | 33 Drain 1B | Two | 3 | 3 | 10-18 | | PT-02-051 | | |
| | | | | | 33-1 | | PT-02-048 | | |
| | | | | | 33-5 | | PT-02-049 | | |
| | | Three* | 0 | 0 | 10-18 | | | VT-05-511 VT-06-871 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | 34 Drain 2A | Three* | 0 | 0 | 12-18 | | | VT-05-512 VT-06-872 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | 36 Letdown | One | 4 | 4 | 36-8 | | 99-2191 | | |
| | | | | | 36-9 | | 99-2191 | | |
| | | | | | 36-28 | | 99-2180 | | |
| | | | | | 36-35 | | 99-2180 | | |
| | | Two | 6 | 6 | 36-25 | | PT-02-065 | | |
| | | | | | 36-26 | | PT-02-066 | | |
| | | | | | 36-43 | | PT-02-067 | | |
| | | | | | 36-44 | | PT-02-068 | | |
| | | | | | 36-45 | | PT-02-069 | | |
| | | | | | 36-80 | | PT-02-071 | | |
| | | Three* | 4 | 4 | 14-18 | | | VT-05-513 VT-06-873 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | | | | | 36-2 | UT-06-123 | | | |
| | | | | | 36-3 | UT-06-149 | | | |
| | | | | | 36-63 | UT-06-124 | | | |
| | | | | | 36-64 | UT-06-125 | | | |
| | 37 Charging | One | 5 | 5 | 37-41 | | 99-2347 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-------------------|----------|---------|----------|---------------|------------------------|--------------|------------------------|--|
| | | | | | 37-42 | | 99-2347 | | |
| | | | | | 37-43 | | 99-2347 | | |
| | | | | | 37-45 | | 99-2347 | | |
| | | | | | 37-47 | | 99-2347 | | |
| | | Two | 7 | 7 | 13-11 | | PT-03-015 | | |
| | | | | | 37-28 | | PT-03-014 | | |
| | | | | | 37-29 | | PT-02-053 | | |
| | | | | | 37-30 | | PT-02-054 | | |
| | | | | | 37-32 | | PT-02-055 | | |
| | | | | | 37-33 | | PT-02-056 | | |
| | | | | | 37-34 | | PT-02-057 | | |
| | | Three* | 3 | 3 | 13-11 | | | VT-05-514 VT-06-876 | Aug BMI VT (IN 04-11 & MRP-139) *RR #32 |
| | | | | | 37-12 | UT-06-126 | | | |
| | | | | | 37-13 | UT-06-127 | | | |
| | | | | | 37-24 | UT-06-147 | | | |
| | | | | | 37-28 | UT-06-128 | | | |
| | | | | | 37-29 | UT-06-129 | | | |
| | | | | | 37-31 | UT-06-148 | | | |
| | 38 Drain 1A | Two | 1 | 1 | 38-1 | | PT-02-062 | | |
| | 39 HPSI A | One | 2 | 2 | 39-1 | | 99-2080 | | |
| | | | | | 39-5 | | 99-2080 | | |
| | | Two | 3 | 3 | 39-12 | UT-02-022 | PT-02-013 | | |
| | | | | | 39-13 | UT-02-021 | PT-02-014 | | |
| | | | | | 39-24 | UT-02-015 UT-02-016 | PT-02-019 | | |
| | 40 HPSI B | One | 3 | 3 | 40-1 | | 00-2103 | | |
| | | | | | 40-2 | | 00-2103 | | |
| | | | | | 40-3 | | 00-2103 | | |
| | | Two | 2 | 2 | 40-6 | UT-02-019 | PT-02-012 | | |
| | | | | | 40-7 | UT-02-020 | PT-02-020 | | |
| B 9.31 | 6 RCS Piping | One | 1 | 1 | 9-8 | 00-2330 00-2331 | 00-2289 | | |
| | | Two | 1 | 1 | 13-8 | UT-02-118 UT-02-123 | MT-02-006 | | |
| | | Three* | 1 | 1 | 6-8 | UT-06-108 | | | * RR #32 |
| B 9.32 | 6 RCS Piping | One | 1 | 1 | 8-17 | | 99-2068 | | |
| | | Two | 1 | 1 | 13-9 | | MT-02-157 | | |
| | 22 SD Cooling B | One | 1 | 1 | 22-7A | | 00-2203 | | |
| B 9.40 | 30 Aux. Pzr Spray | Three* | 0 | 0 | 30-14 | | PT-05-031 | | PSE, *RR #32 |
| | | | | | 30-15 | | PT-05-032 | | PSE |
| | 32 Drain 1A | One | 1 | 1 | 32-6 | | 99-2079 | | |
| | 33 Drain 1B | Two | 1 | 1 | 33-6 | | PT-02-050 | | |
| | 34 Drain 2A | Two | 1 | 1 | 34-6 | | PT-02-061 | | |
| | 38 Drain 1A | One | 1 | 1 | 38-5 | | 00-2098 | | |
| B10.10 | 22 SD Cooling B | Three | 1 | 1 | SI-193-H023 | | PT-06-044 | | 8 Lugs |
| | 26 SI 2B | Three | 1 | 1 | SI-179-H010 | | PT-06-045 | | |
| | 36 Letdown | One | 1 | 1 | RC-091-H005 | | 99-2180 | | |
| | | | | | RC-091-H006 | | 99-2180 | | |
| | | Two | 1 | 1 | RC-091-H006 | | PT-02-005 | | |
| B12.10 | 19 RCP 2B | Three | 1 | 1 | 19-3 | UT-06-096 | | | |
| | | Three | 1 | 1 | 19-4 | UT-06-097 | | | |
| B12.20 | 19 RCP 2B | Interval | 1 | 1 | RCP 2B casing | | | VT-02-072 | |
| B12.40 | 21 SD Cooling A | Interval | 3 | 3 | UV653 | 99-2375 | | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-------------------------|------------------|----------|---------|----------|--------------|-----------|--------------|------------------------|---|
| | 22 SD Cooling B | | | | UV654 | RT-06-012 | | | CC N-460 |
| | 23 SI 1A | | | | UV634 | RT-06-013 | | | CC N-460 |
| | 31 PZR Safeties | | | | PSV-200 | RT-06-018 | | | |
| B12.50 | 21 SD Cooling A | Interval | 5 | 4* | UV653 | | | 99-2321 | * CRDR 2939273 |
| | 24 SI 1B | | | | V-245 | | | VT-03-698 | |
| | 25 SI 2A | | | | V-540 | | | VT-03-773 | |
| | 31 PZR Safeties | | | | PSV-200 | | | VT-06-1340 | |
| B13.10 | 1 Reactor Vessel | One | 100% | 100% | Access areas | | | 00-2556 | |
| | | Two | 100% | 100% | Access areas | | | VT-03-811 | |
| | | Three | 100% | 100% | Access areas | | | VT-06-1317 | Accessible areas |
| B14.10 | 2 Closure Head | One | 2 | 2 | CEDM-10-76 | 00-2329 | 00-2335 | | |
| | | | | | CEDM-10-83 | 00-2329 | 00-2335 | | |
| | | One | 2 | 2 | CEDM-9-76 | 00-2328 | 00-2335 | | |
| | | | | | CEDM-9-83 | 00-2328 | 00-2335 | | |
| | | Two | 2 | 2 | CEDM-10-78 | UT-02-088 | PT-02-079 | | |
| | | | | | CEDM-10-88 | UT-02-089 | PT-02-081 | | |
| | | Two | 2 | 2 | CEDM-9-78 | UT-02-086 | PT-02-078 | | |
| | | | | | CEDM-9-88 | UT-02-087 | PT-02-080 | | |
| | | Three | 3 | 3 | CEDM-10-72 | UT-06-077 | PT-06-050 | | Aug PT |
| | | | | | CEDM-10-81 | UT-06-144 | PT-06-051 | | Aug PT |
| | | | | | CEDM-10-89 | UT-06-079 | PT-06-052 | | Aug PT |
| | | Three | 3 | 3 | CEDM-9-72 | UT-06-080 | PT-06-047 | | Aug PT |
| | | | | | CEDM-9-81 | UT-06-143 | PT-06-048 | | Aug PT |
| | | | | | CEDM-9-89 | UT-06-082 | PT-06-049 | | Aug PT |
| B15.10 | 2 Closure Head | Two | 0 | 0 | Head | | | VT-03-863 | NRC Order EA-03-009 |
| | | Three | 0 | 0 | Head | | | VT-05-492 VT-06-851 | NRC Order EA-03-009 |
| B15.10 Thru 15.70 | RCS Piping | One | ALL | ALL | PressBound | | | * | * RR# 11 & 12 99-2410, 99-2522, 00-2001, 00-2042, 00-2043, 00-2047, 00-2077, 00-2191, 00-2150, 00-2213, 00-2262, 00-2512, 00-2564, 00-2569, 00-2573, 01-2001 |
| | | Two | ALL | ALL | PressBound | | | * | * RR# 11 & 12 VT-02-409, VT-03-501, VT-03-502, VT-03-813, VT-03-814, VT-03-856, VT-03-860, VT-03-869, VT-03-870, VT-03-875 |
| | | Three | All | *** | PressBound | | | * | * RR# 11 & 12 ** Aug BMI (IN 2004-11) VT-05-586, VT-06-784, VT-06-850, VT-06-669, VT-06-793, VT-06-795, VT-06-855**, VT-06-856**, VT-06-857**, VT-06-858** *** Remainder scheduled |
| F 1.10 | 20 PZR Surge | One | 2 | 2 | RC-028-H001 | | | 99-2151 | |
| | | | | | RC-028-H002 | | | 99-2152 | |
| | | Two | 2 | 2 | RC-028-H842 | | | VT-03-494 | |
| | | | | | RC-028-H844 | | | VT-03-495 | |
| | | Three | 3 | 3 | RC-028-H003 | | | VT-06-901 | RR #4 |
| | | | | | RC-028-H004 | | | VT-06-902 | RR #4 |
| | | | | | RC-028-H843 | | | VT-06-903 | RR #4 |
| | 21 SD Cooling A | One | 7 | 7 | RC-051-H001 | | | 00-2118 | support deleted |
| | | | | | RC-051-H002 | | | 00-2119 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|-------------|-----|--------------|------------------------|-----------------|
| | | | | | RC-051-H003 | | | 00-2120 | |
| | | | | | RC-051-H821 | | | 00-2121 | |
| | | | | | SI-240-H010 | | | 99-2337 | |
| | | | | | SI-240-H011 | | | 99-2338 | |
| | | | | | SI-240-H013 | | | 99-2339 | |
| | | Two | 7 | 7 | RC-051-H004 | | | VT-02-038 | Deleted |
| | | | | | RC-051-H005 | | | VT-02-037 | |
| | | | | | SI-240-H002 | | | VT-02-018 | |
| | | | | | SI-240-H011 | | | VT-03-788 | PSE |
| | | | | | SI-240-H012 | | | VT-02-017 | |
| | | | | | SI-240-H822 | | | VT-02-016 | |
| | | | | | SI-240-H823 | | | VT-02-039 | |
| | | | | | SI-240-H824 | | | VT-02-040 | |
| | | Three | 8 | 8 | SI-240-H001 | | | VT-06-904 | Snubber removed |
| | | | | | SI-240-H003 | | | VT-06-905 | |
| | | | | | SI-240-H004 | | | VT-06-906 | |
| | | | | | SI-240-H005 | | | VT-06-907 | |
| | | | | | SI-240-H006 | | | VT-06-908 | Snubber removed |
| | | | | | SI-240-H007 | | | VT-06-909 | |
| | | | | | SI-240-H008 | | | VT-06-910 | |
| | | | | | SI-240-H009 | | | VT-06-911 | |
| | 22 SD Cooling B | One | 4 | 4 | RC-068-H005 | | | 00-2104 | |
| | | | | | RC-068-H006 | | | 00-2105 | support deleted |
| | | | | | SI-193-H017 | | | 00-2106 | |
| | | | | | SI-193-H019 | | | 00-2107 | support deleted |
| | | Two | 4 | 4 | SI-193-H008 | | | VT-02-012 | |
| | | | | | SI-193-H009 | | | VT-02-014 | |
| | | | | | SI-193-H020 | | | VT-02-015 | |
| | | | | | SI-193-H025 | | | VT-02-013 | |
| | | Three | 4 | 4 | RC-068-H001 | | | VT-06-912 | |
| | | | | | RC-068-H003 | | | VT-06-913 | |
| | | | | | RC-068-H004 | | | VT-06-914 | |
| | | | | | SI-193-H023 | | | VT-06-915 | RR #4 |
| | 23 SI 1A | One | 2 | 2 | SI-207-H003 | | | 00-2086 | |
| | | | | | SI-207-H005 | | | 00-2087 | support deleted |
| | | Two | 2 | 2 | SI-207-H007 | | | VT-02-243 VT-02-244 | |
| | | | | | SI-207-H011 | | | VT-02-235 | |
| | | Three | 1 | 1 | SI-207-H001 | | | VT-06-916 | |
| | 24 SI 1B | One | 2 | 2 | SI-223-H003 | | | 99-2117 | |
| | | | | | SI-223-H004 | | | 99-2523 | support deleted |
| | | Two | 2 | 2 | SI-223-H001 | | | VT-02-241 | |
| | | | | | SI-223-H002 | | | VT-02-240 | |
| | | Three | 1 | 1 | SI-223-H008 | | | VT-06-917 | |
| | 25 SI 2A | One | 2 | 2 | SI-156-H007 | | | 99-2094 | support deleted |
| | | | | | SI-156-H009 | | | 99-2099 | |
| | | Two | 1 | 1 | SI-160-H001 | | | VT-02-238 | |
| | | Three | 1 | 1 | SI-160-H004 | | | VT-06-918 | |
| | 26 SI 2B | One | 2 | 2 | SI-179-H009 | | | 99-2524 | support deleted |
| | | | | | SI-179-H011 | | | 99-2171 | |
| | | Two | 3 | 3 | SI-175-H021 | | | VT-02-315 | |
| | | | | | SI-175-H022 | | | VT-02-317 | |
| | | | | | SI-175-H023 | | | VT-03-534 | |
| | | Three | 2 | 2 | SI-179-H008 | | | VT-06-919 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|-------------|-----|--------------|-----------|-----------------|
| | | | | | SI-179-H010 | | | VT-06-920 | Removed |
| | 27 PZR Spray 1A | One | 9 | 9 | RC-062-H026 | | | 99-2153 | |
| | | | | | RC-062-H027 | | | 99-2203 | |
| | | | | | RC-062-H028 | | | 99-2155 | |
| | | | | | RC-062-H029 | | | 99-2156 | support deleted |
| | | | | | RC-062-H030 | | | 99-2157 | |
| | | | | | RC-062-H031 | | | 99-2158 | support deleted |
| | | | | | RC-062-H032 | | | 99-2159 | |
| | | | | | RC-062-H033 | | | 99-2504 | |
| | | | | | RC-062-H034 | | | 99-2160 | support deleted |
| | | Two | 8 | 8 | RC-016-H005 | | | VT-02-344 | |
| | | | | | RC-016-H006 | | | VT-02-345 | |
| | | | | | RC-016-H007 | | | VT-02-346 | |
| | | | | | RC-016-H015 | | | VT-02-347 | |
| | | | | | RC-062-H035 | | | VT-02-348 | |
| | | | | | RC-062-H036 | | | VT-02-349 | |
| | | | | | RC-062-H037 | | | VT-02-350 | |
| | | | | | RC-062-H038 | | | VT-02-351 | |
| | | Three | 4 | 4 | RC-062-H021 | | | VT-06-921 | RR #4 |
| | | | | | RC-062-H023 | | | VT-06-922 | RR #4 |
| | | | | | RC-062-H024 | | | VT-06-923 | RR #4 |
| | | | | | RC-062-H039 | | | VT-06-924 | RR #4 |
| | 28 PZR Spray 1B | One | 8 | 8 | RC-017-H024 | | | 99-2144 | |
| | | | | | RC-017-H034 | | | 99-2145 | |
| | | | | | RC-017-H036 | | | 99-2146 | |
| | | | | | RC-017-H038 | | | 99-2147 | |
| | | | | | RC-017-H039 | | | 99-2148 | support deleted |
| | | | | | RC-017-H040 | | | 99-2149 | |
| | | | | | RC-017-H041 | | | 99-2150 | support deleted |
| | | | | | RC-017-H042 | | | 99-2503 | |
| | | Two | 8 | 8 | RC-017-H043 | | | VT-02-379 | |
| | | | | | RC-017-H044 | | | VT-02-381 | |
| | | | | | RC-017-H045 | | | VT-02-380 | |
| | | | | | RC-017-H046 | | | VT-02-382 | |
| | | | | | RC-018-H009 | | | VT-02-383 | |
| | | | | | RC-018-H010 | | | VT-02-384 | |
| | | | | | RC-018-H011 | | | VT-02-385 | |
| | | | | | RC-018-H012 | | | VT-02-378 | |
| | | Three | 8 | 8 | RC-017-H026 | | | VT-06-925 | |
| | | | | | RC-017-H029 | | | VT-06-926 | RR #4 |
| | | | | | RC-017-H030 | | | VT-06-927 | RR #4 |
| | | | | | RC-017-H031 | | | VT-06-928 | |
| | | | | | RC-017-H032 | | | VT-06-929 | RR #4 |
| | | | | | RC-017-H033 | | | VT-06-930 | RR #4 |
| | | | | | RC-017-H047 | | | VT-06-931 | RR #4 |
| | | | | | RC-017-H048 | | | VT-06-932 | RR #4 |
| | 29 PZR Spray | One | 2 | 2 | RC-018-H016 | | | 00-2090 | |
| | | | | | RC-018-H018 | | | 00-2091 | |
| | | Two | 1 | 1 | RC-018-H017 | | | VT-02-411 | |
| | 30 Aux PZR | Three | 2 | 2 | CH-521-H00A | | | VT-06-933 | |
| | Spray | | | | CH-521-H00B | | | VT-06-934 | |
| | 32 Drain 1A | One | 2 | 2 | RC-060-H00A | | | 99-2031 | support deleted |
| | | | | | RC-060-H00B | | | 99-2127 | support deleted |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|-------------|-----|--------------|-------------------------------|-------------------|
| | 33 Drain 1B | Two | 2 | 2 | RC-058-H00A | | | VT-02-309 | |
| | | | | | RC-058-H00B | | | VT-02-310 | |
| | 34 Drain 2A | Two | 2 | 2 | RC-096-H00A | | | VT-02-318 | |
| | | | | | RC-096-H00B | | | VT-02-319 | |
| | 35 Drain 2B | Three | 1 | 1 | RC-089-H00E | | | VT-06-937 | |
| | 36 Letdown | One | 9 | 9 | RC-091-H001 | | | 99-2204 | |
| | | | | | RC-091-H005 | | | 99-2197 | |
| | | | | | RC-091-H006 | | | 99-2255 | |
| | | | | | RC-091-H00B | | | 99-2206 | support deleted |
| | | | | | RC-091-H00D | | | 99-2207 | |
| | | | | | RC-091-H00E | | | 99-2199 | support deleted |
| | | | | | RC-091-H00Y | | | 99-2208 | |
| | | | | | RC-091-H00Z | | | 99-2205 | |
| | | | | | RC-091-H0AA | | | 99-2209 | |
| | | | | | RC-091-H0AK | | | 99-2210 | |
| | | Two | 10 | 10 | RC-091-H002 | | | VT-02-372 | |
| | | | | | RC-091-H006 | | | VT-02-019 | |
| | | | | | RC-091-H00P | | | VT-02-376 | |
| | | | | | RC-091-H00Q | | | VT-02-377 | |
| | | | | | RC-091-H00R | | | VT-03-476 | |
| | | | | | RC-091-H00S | | | VT-03-497 | |
| | | | | | RC-091-H00T | | | VT-03-498 | |
| | | | | | RC-091-H0AJ | | | VT-02-373 | |
| | | | | | RC-091-H0AP | | | VT-02-374 | |
| | | | | | RC-091-H0AQ | | | VT-02-375 | |
| | | Three | 11 | 10 | CH-001-H00A | | | VT-06-938 | RR #4 |
| | | | | | RC-091-H0AB | | | VT-06-874 | RR #4 |
| | | | | | RC-091-H0AC | | | VT-06-1342 | RR #4 |
| | | | | | RC-091-H0AD | | | VT-06-939 | RR #4 |
| | | | | | RC-091-H0AJ | | | VT-06-940 | RR #4 |
| | | | | | RC-091-H0AM | | | VT-06-941 | RR #4 |
| | | | | | RC-091-H0AN | | | VT-06-942 | RR #4 |
| | | | | | RC-091-H00F | | | VT-06-875 | RR #4 |
| | | | | | RC-091-H00U | | | VT-06-943 | RR #4 |
| | | | | | RC-091-H00V | | | VT-06-944 | RR #4 |
| | | | | | RC-091-H00W | | | VT-06-945 | RR #4 |
| | 37 Charging | One | 14 | 14 | CH-005-H002 | | | 99-2376 | support deleted |
| | | | | | CH-005-H003 | | | 99-2377 | |
| | | | | | CH-005-H007 | | | 99-2378 | Expansion |
| | | | | | CH-005-H013 | | | 99-2379 | Expansion |
| | | | | | CH-005-H025 | | | 99-2110 | |
| | | | | | CH-005-H026 | | | 99-2348 | support deleted |
| | | | | | CH-005-H027 | | | 99-2349 | |
| | | | | | CH-005-H028 | | | 99-2350 | |
| | | | | | CH-005-H030 | | | 99-2351 | |
| | | | | | CH-005-H034 | | | 99-2352 | |
| | | | | | CH-005-H035 | | | 99-2353 | |
| | | | | | CH-005-H036 | | | 99-2354 | |
| | | | | | CH-005-H042 | | | 99-2111 99-2506 00-2076 | Reject Re-exam |
| | | | | | CH-005-H043 | | | 99-2380 | support deleted |
| | | | | | CH-005-H044 | | | 99-2381 | |
| | | | | | CH-005-H0AA | | | 99-2112 | support deleted |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|-------------|-----|--------------|------------------------|-----------------|
| | | Two | 9 | 9 | CH-005-H013 | | | VT-02-330 | |
| | | | | | CH-005-H017 | | | VT-02-332 | |
| | | | | | CH-005-H018 | | | VT-02-333 | |
| | | | | | CH-005-H019 | | | VT-02-329 | |
| | | | | | CH-005-H020 | | | VT-02-337 VT-02-339 | |
| | | | | | CH-005-H021 | | | VT-02-334 VT-02-338 | |
| | | | | | CH-005-H022 | | | VT-02-335 | |
| | | | | | CH-005-H032 | | | VT-02-336 | |
| | | | | | CH-005-H037 | | | VT-02-331 | |
| | | Three | 10 | 10 | CH-005-H004 | | | VT-06-946 | RR #4 |
| | | | | | CH-005-H007 | | | VT-06-947 | RR #4 |
| | | | | | CH-005-H008 | | | VT-06-948 | RR #4 |
| | | | | | CH-005-H009 | | | VT-06-949 | RR #4 |
| | | | | | CH-005-H011 | | | VT-06-950 | |
| | | | | | CH-005-H012 | | | VT-06-951 | |
| | | | | | CH-005-H014 | | | VT-06-952 | |
| | | | | | CH-005-H033 | | | VT-06-953 | RR #4 |
| | | | | | CH-005-H038 | | | VT-06-954 | |
| | | | | | CH-005-H039 | | | VT-06-955 | RR #4 |
| | 38 Drain 1A | Three | 1 | 1 | RC-070-H00B | | | VT-06-956 | |
| | 39 HPSI A | One | 4 | 4 | SI-248-H026 | | | 99-2089 | support deleted |
| | | | | | SI-248-H027 | | | 99-2088 | |
| | | | | | SI-248-H028 | | | 99-2087 | |
| | | | | | SI-248-H030 | | | 99-2092 | |
| | | Two | 5 | 5 | SI-248-H017 | | | VT-02-304 | |
| | | | | | SI-248-H018 | | | VT-02-305 | |
| | | | | | SI-248-H019 | | | VT-02-307 | |
| | | | | | SI-248-H020 | | | VT-02-308 | |
| | | | | | SI-248-H029 | | | VT-02-306 | |
| | | Three | 5 | 5 | SI-248-H021 | | | VT-06-957 | |
| | | | | | SI-248-H022 | | | VT-06-958 | |
| | | | | | SI-248-H023 | | | VT-06-959 | Snubber removed |
| | | | | | SI-248-H024 | | | VT-06-960 | |
| | | | | | SI-248-H025 | | | VT-06-961 | |
| | 40 HPSI B | One | 3 | 3 | SI-199-H013 | | | 00-2108 | |
| | | | | | SI-199-H014 | | | 00-2109 | |
| | | | | | SI-199-H021 | | | 00-2110 | support deleted |
| | | Two | 4 | 4 | SI-199-H015 | | | VT-02-326 | |
| | | | | | SI-199-H016 | | | VT-02-327 | |
| | | | | | SI-199-H017 | | | VT-02-328 | |
| | | | | | SI-199-H018 | | | VT-02-325 | |
| | | Three | 2 | 2 | SI-199-H022 | | | VT-06-962 | |
| | | | | | SI-199-H023 | | | VT-06-963 | |
| F 1.40 | 1 RV | Three | 4 | 4 | 1-40 | | | VT-06-879 | |
| | | | | | 1-41 | | | VT-06-880 | |
| | | | | | 1-42 | | | VT-06-881 | |
| | | | | | 1-43 | | | VT-06-882 | |
| | 3 SG1 | One | 1 | 1 | 3-40 | | | 99-2224 | |
| | | Two | 0 | 0 | 3-140 | | | VT-03-817 | PSE |
| | 4 SG2 | Two | 1 | 1 | 4-140 | | | VT-03-818 | PSE |
| | 5 PZR | One | 0 | 0 | 5-40 | | | 99-2225 | |
| | | Three | 1 | 1 | 5-40 | | | VT-06-883 | RR# 4 |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT.

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|----------|-----------|--------------|------------------------|---------|
| | 16 RCP 1A | One | 2 | 2 | 16-17 | | | 99-2448 | |
| | | | | | 16-18 | | | 99-2449 | |
| | | Two | 4 | 4 | 16-12 | | | VT-02-355 | |
| | | | | | 16-13 | | | VT-02-388 | |
| | | | | | 16-14 | | | VT-02-389 | |
| | | | | | 16-15 | | | VT-02-390 | |
| | | Three | 4 | 4 | 16-19 | | | VT-06-884 | |
| | | | | | 16-20 | | | VT-06-885 | |
| | | | | | 16-21 | | | VT-06-886 | |
| | | | | | 16-22 | | | VT-06-887 | |
| | 17 RCP 1B | One | 2 | 2 | 17-17 | | | 99-2450 | |
| | | | | | 17-18 | | | 99-2451 | |
| | | Two | 4 | 4 | 17-12 | | | VT-02-356 | |
| | | | | | 17-13 | | | VT-02-391 | |
| | | | | | 17-14 | | | VT-02-392 | |
| | | | | | 17-15 | | | VT-02-393 | |
| | | Three | 4 | 4 | 17-19 | | | VT-06-888 | |
| | | | | | 17-20 | | | VT-06-889 | |
| | | | | | 17-21 | | | VT-06-890 | |
| | | | | | 17-22 | | | VT-06-891 | |
| | 18 RCP 2A | One | 4 | 4 | 18-12 | | | 99-2452 | |
| | | | | | 18-13 | | | 99-2453 | |
| | | | | | 18-14 | | | 99-2454 | |
| | | | | | 18-15 | | | 99-2455 | |
| | | Two | 2 | 2 | 18-17 | | | VT-02-231 VT-02-232 | |
| | | | | | 18-18 | | | VT-02-233 VT-02-234 | |
| | | Three | 4 | 4 | 18-19 | | | VT-06-892 | |
| | | | | | 18-20 | | | VT-06-893 | |
| | | | | | 18-21 | | | VT-06-894 | |
| | | | | | 18-22 | | | VT-06-895 | |
| | 19 RCP 2B | One | 4 | 4 | 19-12 | | | 99-2456 | |
| | | | | | 19-13 | | | 99-2457 | |
| | | | | | 19-14 | | | 99-2458 | |
| | | | | | 19-15 | | | 99-2459 | |
| | | Two | 2 | 2 | 19-17 | | | VT-03-771 | |
| | | | | | 19-18 | | | VT-03-772 | |
| | | Three | 4 | 4 | 19-19 | | | VT-06-896 | |
| | | | | | 19-20 | | | VT-06-897 | |
| | | | | | 19-21 | | | VT-06-898 | |
| | | | | | 19-22 | | | VT-06-899 | |
| FLYWHL | 16 RCP 1A | One | 4 | 4 | Flywheel | 00-2202 | | | |
| | 17 RCP 1B | | | | Flywheel | 00-2164 | | | |
| | 18 RCP 2A | | | | Flywheel | 00-2253 | | | |
| | 19 RCP 2B | | | | Flywheel | 00-2254 | | | |
| | 16 RCP 1A | Two | 4 | 4 | Flywheel | UT-02-084 | | | |
| | 17 RCP 1B | | | | Flywheel | UT-02-085 | | | |
| | 18 RCP 2A | | | | Flywheel | UT-02-082 | | | |
| | 19 RCP 2B | | | | Flywheel | UT-02-081 | | | |
| | 16 RCP 1A | Three | 4 | 4 | Flywheel | UT-06-093 | VE-06-001 | | |
| | 17 RCP 1B | | | | Flywheel | UT-06-094 | VE-06-002 | | |
| | 18 RCP 2A | | | | Flywheel | UT-06-095 | VE-06-003 | | |
| | 19 RCP 2B | | | | Flywheel | UT-06-098 | VE-06-004 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|------------------|-----------------|----------|------------|------------|---------|--|--------------|--------|--------------------------|
| Class 2 | | | | | | | | | |
| C 1.10 | 41 SG1 | One | 1 (50%) | 1 (50%) | 41-3 | 00-2292 00-2293 00-2294 00-2295 | | | exam 180 - 360 deg |
| | | | 1 (50%) | 1 (50%) | 41-4 | 00-2279 00-2280 00-2281 00-2282 | | | exam 180 - 360 deg |
| | | Two | 0 | 0 | 41-106 | UT-03-059 | | | PSE |
| | | | | | 41-105 | UT-03-058 | | | PSE |
| | | Three | 1 | 1 | 41-105 | UT-06-101 | | | 0 thru 180 deg |
| | | | | | 41-106 | UT-06-102 | | | 0 thru 180 deg |
| | 68 Regen HTEXCH | Three | 3 | 3 | 68-3 | UT-05-015 | | | |
| | | | | | 68-5 | UT-05-017 | | | |
| | | | | | 68-7 | UT-05-019 | | | |
| | 69 Letdown | One | 50% | 50% | 69-1 | 99-2436 | | | exam 0 - 180 deg |
| | HTEXCH | Three | 50% | 50% | 69-1 | UT-05-022 | | | 180° - 360° |
| | 84 SD Cooling A | Two | 50% | 50% | 74-123 | UT-03-107 | | | |
| | 87 SD HTEXCH B | Three | 50% | 50% | 75-78 | UT-05-067 | | | 180° - 360° |
| C 1.20 | 41 SG1 | One | 1 (50%) | 1 (50%) | 41-5 | 00-2230 00-2231 00-2232 00-2233 | | | exam 180 - 360 deg |
| | | Two | 0 | 0 | 41-107 | UT-03-060 | | | PSE |
| | | Three | 1 | 1 | 41-107 | UT-06-103 | | | 0 thru 180 deg, CC N-460 |
| | 68 Regen HTEXCH | Three | 2 | 2 | 68-4 | UT-05-016 | | | |
| | | | | | 68-6 | UT-05-018 | | | |
| C 1.30 | 41 SG1 | One | 1 (50%) | 1 (50%) | 41-1 | 99-2235 99-2236 99-2237 99-2238 | | | exam 0 - 180 deg |
| | | Two | 0 | 0 | 41-104 | UT-03-061 | | | PSE |
| | 42 SG2 | Two | 1 (50%) | 1 (50%) | 42-104 | UT-03-062 | | | PSE |
| | 68 Regen HTEXCH | Three | 4 | 4 | 68-1 | UT-05-013 | | | |
| | | | | | 68-2 | UT-05-014 | | | |
| | | | | | 68-8 | UT-05-020 | | | |
| | | | | | 68-9 | UT-05-021 | | | |
| | 69 Letdown | One | 50% | 50% | 69-2 | 99-2437 | | | 180° - 360° |
| | HTEXCH | Three | 50% | 50% | 69-2 | UT-05-023 | | | 180° - 360° |
| | 84 SD Cooling A | Two | 50% | 50% | 74-124 | UT-03-109 | | | |
| | 87 SD HTEXCH B | Three | 50% | 50% | 75-79 | UT-05-068 | | | 180° - 360° |
| C 2.21 & 2.22 | 41 SG1 | One | 1 | 1 | 41-16 | 00-2349 00-2350 | 00-2336 | | |
| | | Two | 4 | 4 | 41-102 | UT-03-063 UT-03-073 | MT-03-031 | | PSE Inner radius |
| | | | | | 41-103 | UT-03-064 UT-03-074 | MT-03-032 | | PSE Inner radius |
| | | | | | 41-109 | UT-03-065 | MT-03-033 | | PSE |
| | | | | | 41-110 | UT-03-066 | MT-03-034 | | PSE |
| | | Three | 2 | 2 | 41-102 | UT-06-099 UT-06-075 | MT-06-030 | | Inner radius |
| | | | | | 41-103 | UT-06-100 UT-06-076 | MT-06-032 | | Inner radius |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|-------------|------------------------|------------------------|--------|----------------------------|
| | 42 SG2 | One | 1 | 1 | 42-16 | 00-2351 00-2352 | 00-2337 | | |
| | | Two | 0 | 0 | 42-100 | UT-03-067 | MT-03-035 | | PSE |
| | | | | | 42-101 | UT-03-068 | MT-03-036 | | PSE |
| | | | | | 42-102 | UT-03-069 UT-03-075 | MT-03-037 | | PSE Inner radius |
| | | | | | 42-103 | UT-03-070 UT-03-076 | MT-03-038 | | PSE Inner radius |
| | | | | | 42-114 | UT-03-071 | MT-03-039 MT-03-041 | | PSE Inner radius RR # 8 |
| | | | | | 42-115 | UT-03-072 | MT-03-040 MT-03-042 | | PSE Inner radius RR # 8 |
| | 84 SD Cooling A | Two | 1 | 1 | 74-122 | UT-03-100 UT-03-113 | MT-03-117 | | Inner radius |
| | 87 SD HTEXCH B | Three | 1 | 1 | 75-76 | UT-05-066 UT-05-009 | MT-05-007 | | Inner radius |
| C 3.10 | 41 SG1 | One | 1 | 1 | 41-42 | | 00-2176 | | 270 deg |
| | | Two | 1 | 1 | 41-112 | UT-03-077 | MT-03-043 | | PSE |
| | | | | | 41-113 | UT-03-078 | MT-03-044 | | PSE |
| | 68 Regen HTEXCH | Three | 2 | 2 | 68-10 | | PT-05-001 | | |
| | | | | | 68-11 | | PT-05-002 | | |
| C 3.20 | 43 MS SG1 | One | 1 | 1 | SG-036-H017 | | 99-2325 00-2175 | | |
| | | Two | 1 | 1 | SG-036-H012 | | MT-02-142 | | |
| | | Three | 1 | 1 | SG-036-H016 | | MT-06-034 | | |
| | 44 MS SG1 | Two | 2 | 2 | SG-033-H015 | | MT-02-141 | | |
| | | | | | SG-033-H016 | | MT-02-143 | | |
| | | Three | 1 | 1 | SG-033-H014 | | MT-06-035 | | |
| | 45 MS SG2 | One | 1 | 1 | SG-042-H014 | | 99-2326 | | |
| | | Two | 1 | 1 | SG-042-H012 | | MT-02-144 | | |
| | | Three | 3 | 3 | SG-042-H015 | | MT-06-037 | | Removed |
| | | | | | SG-042-H016 | | MT-06-039 | | |
| | | | | | SG-042-H017 | | MT-06-040 | | |
| | 46 MS SG2 | Two | 1 | 1 | SG-045-H012 | | MT-02-153 | | |
| | | Three | 1 | 1 | SG-045-H016 | | MT-06-041 | | |
| | 54 FW SG1 | One | 0 | 0 | SG-002-H001 | | 99-2322 | | |
| | | Three | 1 | 1 | SG-002-H001 | | MT-06-042 | | |
| | 55 FW SG2 | One | 1 | 1 | SG-005-H001 | | 99-2323 | | |
| | | | | | SG-005-H009 | | 00-2300 00-2311 | | |
| | | Three | 1 | 1 | SG-005-H001 | | MT-06-043 | | |
| | 62 Aux FW SG1 | Two | 1 | 1 | AF-018-H001 | | PT-03-044 | | |
| | 64 Blowdown | One | 3 | 3 | SG-039-H015 | | 00-2078 | | |
| | SG1 | | | | SG-039-H017 | | 00-2079 | | |
| | | | | | SG-053-H001 | | 00-2073 | | support deleted |
| | | Two | 2 | 2 | SG-039-H001 | | MT-02-004 | | |
| | | | | | SG-053-H005 | | MT-02-003 PT-02-022 | | |
| | | Three | 1 | 1 | SG-039-H022 | | MT-06-044 | | |
| | | | | | SG-053-H005 | | MT-06-047 | | |
| | 65 Blowdown | One | 2 | 2 | SG-048-H020 | | 00-2080 | | |
| | SG2 | | | | SG-052-H001 | | 00-2045 | | support deleted |
| | | Two | 3 | 3 | SG-048-H014 | | MT-03-122 | | |
| | | | | | SG-048-H016 | | MT-02-005 | | |
| | | | | | SG-048-H026 | | MT-03-061 | | |
| | | Three | 1 | 1 | SG-053-H005 | | MT-06-045 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|--------------------------|--------------|----------|----------|--------------------|-----|------------------|--------|-----------------|
| | 71 LPSI Discharge A | One | 1 | 1 | SI-087-H011 | | 99-2200 | | |
| | 76 CS Suction | One | 1 | 1 | SI-009-H004 | | 99-2214 | | CC N-490 |
| | 77 CS Discharge A | Three | 1 | 1 | SI-079-H007 | | PT-05-003 | | |
| | 80 CS Discharge B | Three | 1 | 1 | SI-119-H005 | | PT-05-004 | | |
| | 83 SD Cooling A | Two | 2 | 2 | SI-087-H004 | | PT-03-043 | | |
| | | | | | SI-090-H001 | | PT-03-045 | | |
| | | Three | 2 | 2 | SI-070-H001 | | PT-05-008 | | |
| | | | | | SI-070-H006 | | PT-05-009 | | |
| | 86 SD Cooling B | Three | 2 | 2 | SI-072-H001 | | PT-05-010 | | |
| | | | | | SI-072-H012 | | PT-05-011 | | |
| | 88 East Wrap | One | 1 | 1 | SI-072-H013 | | 99-2398 | | |
| | 89 East Wrap | One | 1 | 1 | SI-194-H014 | | 99-2272 | | |
| | 91 West Wrap | One | 4 | 4 | SI-070-H009 | | 99-2178 | | |
| | | | | | SI-070-H011 | | 99-2178 | | |
| | | | | | SI-070-H012 | | 99-2178 | | |
| | | | | | SI-070-H016 | | 99-2178 | | |
| | 92 West Wrap | One | 1 | 1 | SI-241-H021 | | 99-2179 | | |
| | | Two | 2 | 2 | SI-239-H001 | | PT-03-026 | | |
| | | | | | SI-241-H016 | | PT-03-027 | | |
| | 93 West Wrap | Two | 1 | 1 | SI-089-H013 | | PT-03-047 | | |
| | 94 LPSI A | Two | 2 | 2 | SI-070-H005 | | PT-03-038 | | |
| | | | | | SI-070-H008 | | PT-03-039 | | |
| | 95 LPSI B | Three | 1 | 1 | SI-194-H006 | | PT-05-014 | | CC N-460 |
| | 96 LPSI Loop 1A | Three | 1 | 1 | SI-202-H017 | | PT-06-053 | | CC N-460 |
| | 99 LPSI Loop 2B | Two | 1 | 1 | SI-174-H013 | | PT-02-046 | | |
| | 100 LPSI A | One | 1 | 1 | SI-369-H001 | | 99-2319 | | |
| | Suction | Two | 1 | 1 | 84-5 | | PT-03-063 | | |
| | 101 LPSI B Suction | Three | 1 | 1 | 85-5 | | PT-05-015 | | |
| | 102 SI Suction A | One | 3 | 3 | SI-307-H002 | | 00-2305 | | |
| | | | | | SI-307-H003 | | 00-2378 | | |
| | | | | | SI-307-H015 | | 00-2306 | | |
| | 103 Refuel | Two | 2 | 2 | CH-142-H020 | | PT-02-024 | | |
| | Suction A | | | | CH-424-H006 | | PT-03-052 | | |
| | 104 SI Suction B | Two | 1 | 1 | SI-308-H003 | | PT-02-076 | | |
| | 105 Refuel | Three | 3 | 3 | CH-149-H002 | | PT-05-016 | | |
| | Suction B | | | | CH-149-H008 | | PT-05-017 | | |
| | | | | | CH-425-H006 | | PT-05-018 | | |
| | 113 HPSI Discharge | One | 1 | 1 | SI-107-H022 | | 00-2214 | | |
| | 119 HPSI B Recirc | Three | 1 | 1 | SI-114-H022 | | PT-06-046 | | |
| C 3.30 | 72 LPSI Pump A | One | 3 | 3 | 72-3A | | 99-2226 | | |
| | | | | | 72-3B | | 99-2226 | | |
| | | | | | 72-3C | | 99-2226 | | |
| | 75 LPSI Pump B | Two | 3 | 3 | 73-3A | | PT-03-035 | | |
| | | | | | 73-3B | | PT-03-036 | | |
| | | | | | 73-3C | | PT-03-037 | | |
| | 78 CS Pump A | Two | 3 | 3 | 80-3A | | PT-03-023 | | |
| | | | | | 80-3B | | PT-03-024 | | |
| | | | | | 80-3C | | PT-03-025 | | |
| | 81 CS Pump B | Three | 3 | 3 | 81-3A | | PT-05-005 | | |
| | | | | | 81-3B | | PT-05-006 | | |
| | | | | | 81-3C | | PT-05-007 | | |
| | 116 HPSI A Pump | One | 4 | 4 | 116-1A | | 00-2558 | | |
| | | | | | 116-1B | | 00-2558 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|--------------|-------------------------|--------------|-----------|-----------|-------------------|------------------------|------------------------|--------|---------------|
| | | | | | 116-1C | | 00-2558 | | |
| | | | | | 116-1D | | 00-2558 | | |
| | 117 HPSI Pump B | Two | 4 | 4 | 117-1A | | PT-03-017 | | |
| | | | | | 117-1B | | PT-03-022 | | |
| | | | | | 117-1C | | PT-03-021 | | |
| | | | | | 117-1D | | PT-03-020 | | |
| C4.30 | 117 HPSI Pump B | Three | 16 | 16 | Head Studs | UT-06-070 | | | |
| C 4.40 | 47 MS SG1 | One | 20 | 20 | UV-170 | 00-2393 | | | |
| | 48 MS SG1 | One | 20 | 20 | UV-180 | 00-2393 | | | |
| | 49 MS (East) SG2 | Three | 20 | 20 | UV-171 | UT-05-005 | | | Installed |
| | 50 MS (West) SG2 | Three | 20 | 20 | UV-181 | UT-05-006 | | | Installed |
| | 56 FW SG1 | Two | 20 | 20 | UV-132 | UT-02-107 | | | |
| | | | 20 | 20 | UV-174 | UT-02-108 | | | |
| | 57 FW SG1 | Three | 20 | 20 | UV-137 | UT-05-007 | | | Installed |
| | | | 20 | 20 | UV-177 | UT-05-008 | | | Installed |
| C 5.11 | 54 FW SG1 | Two | 1 | 1 | 54-1 | RT-03-005 | PT-03-056 | | PSE |
| & 5.12 | | | | | 54-15 | RT-03-004 | PT-03-057 | | PSE |
| | | | | | 54-20 | RT-03-003 | PT-03-050 | | PSE |
| | | | | | 54-6 | RT-03-006 | PT-03-051 | | PSE |
| | 55 FW SG2 | Two | 0 | 0 | 55-1 | RT-03-007 | PT-03-058 | | PSE |
| | | | | | 55-15 | RT-03-009 | PT-03-059 | | PSE |
| | | | | | 55-20 | RT-03-010 | PT-03-049 | | PSE |
| | | | | | 55-6 | RT-03-008 | PT-03-048 | | PSE |
| | | Three* | 4 | 4 | 55-16 | UT-06-132 | | | * RR #32 |
| | | | | | 55-17 | UT-06-133 | | | |
| | | | | | 55-18 | UT-06-134 | | | |
| | | | | | 55-19 | UT-06-135 | | | |
| | 58 Aux & Dwnclmr FW SG1 | Two | 1 | 1 | 58-1 | RT-03-011 | PT-03-060 | | PSE |
| | 59 Aux & Dwnclmr FW SG2 | Two | 5 | 5 | 59-1 | RT-03-012 | PT-03-061 | | PSE |
| | | | | | 59-16 | UT-03-191 | PT-03-054 | | PSE |
| | | | | | 59-16-A | UT-03-190 | PT-03-053 | | PSE |
| | | | | | 59-16-C | UT-02-075 UT-03-192 | PT-02-043 PT-03-055 | | PSE |
| | | | | | 59-34 | UT-02-080 | PT-02-042 | | |
| | | Three* | 0 | 0 | 59-13 | UT-05-065 | PT-05-033 | | PSE, * RR #32 |
| | 62 Aux FW SG1 | Three* | 4 | 4 | 62- 6 | UT-05-053 | | | * RR #32 |
| | | | | | 62-12 | UT-05-054 | | | |
| | | | | | 62- 5 | UT-05-052 | | | |
| | | | | | 62-13 | UT-05-055 | | | |
| | 63 Aux & FW | One | 1 | 1 | 63-4 | 00-2273 00-2274 | 00-2039 | | |
| | 70 & 73 LPSI | One | 1 | 1 | 70-58 | 99-2314 | 99-2264 | | |
| | Suction A & B | Two | 1 | 1 | 70-56 | UT-02-054 | PT-02-036 | | |
| | 82 & 85 SD | One | 2 | 2 | 72-50 | 99-2271 | 99-2126 | | |
| | Cooling A & B | | | | 73-49 | 00-2152 | 00-2153 | | |
| | 83 & 86 SD | One | 4 | 4 | 74-105 | 99-2269 | 99-2059 | | |
| | Cooling A & B | | | | 74-19 | 99-2270 | 99-2022 | | |
| | | | | | 74-21 | 99-2265 | 99-2263 | | |
| | | | | | 74-22 | 99-2266 | 99-2263 | | |
| | 88 & 91 East | One | 6 | 6 | 74-44 | 99-2184 | 99-2178 | | |
| | & West Wrap | | | | 76-2 | 99-2183 | 99-2178 | | |
| | | | | | 76-21 | 00-2259 00-2308 | 00-2224 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|------------------|---------------------------------|----------|---------|----------|---------|-------------------------------|------------------------|--------|-----------------|
| | | | | | 77-7 | 00-2326 00-2327 | 00-2225 | | |
| | | | | | 77-14 | 00-2260 00-2307 00-2325 | 00-2226 | | |
| | | | | | 78-16 | 99-2355 | 99-2313 | | |
| | | Two | 1 | 1 | 77-16 | UT-03-116 | PT-03-029 | | Limited UT Exam |
| | | | | | 77-8 | UT-03-115 | PT-03-028 | | No Credit |
| | 94 & 95 SI A & B | One | 1 | 1 | 74-40 | 00-2392 | 00-2345 | | |
| | | Two | 2 | 2 | 74-37 | UT-02-055 | PT-02-033 PT-03-040 | | |
| | | | | | 74-38 | UT-03-120 | PT-03-041 | | |
| | | Three* | 1 | 1 | 74-30 | UT-05-056 | | | * RR #32 |
| | 96, 97, 98, 99 LPSI | One | 3 | 3 | 78-45 | 99-2363 | 99-2077 | | |
| | 1A, 1B, 2A & 2B | | | | 78-47 | 99-2364 | 99-2077 | | |
| | | | | | 79-23 | 00-2309 00-2310 | 00-2255 | | |
| | | Two | 2 | 2 | 77-22 | UT-02-103 | PT-02-047 | | |
| | | | | | 77-27 | UT-02-104 UT-02-105 | PT-02-045 | | |
| | 100 & 101 LPSI Suction A & B | Two | 2 | 2 | 70-121 | UT-02-127 UT-02-128 | PT-02-063 | | |
| | | | | | 84-3 | UT-03-206 | PT-03-062 | | Limited UT Exam |
| | 102 SI Suction A | One | 1 | 1 | 84-12 | 00-2355 00-2356 | 00-2340 | | |
| | | Two | 1 | 1 | 84-26 | UT-02-053 | PT-02-032 PT-03-042 | | |
| | 103 Refuel Suction A | One | 1 | 1 | 86-57 | 00-2430 00-2431 | 00-2346 | | |
| | | Two | 1 | 1 | 86-3 | UT-02-024 | PT-02-025 | | |
| | 104 SI Suction B | One | 1 | 1 | 85-46 | 00-2390 00-2391 | 00-2278 | | |
| | | Two | 1 | 1 | 85-31 | UT-02-101 | PT-02-077 PT-03-046 | | |
| | 105 Refuel | One | 1 | 1 | 87-23 | 00-2040 | 00-2048 | | |
| | Suction B | Two | 1 | 1 | 87-37 | UT-02-023 | PT-02-023 | | |
| C 5.21 & 5.22 | 106 & 107 HPSI | One | 4 | 4 | 106-1 | 00-2485 00-2487 | 00-2263 | | |
| | | | | | 106-21 | 00-2481 00-2482 | 00-2264 | | |
| | | | | | 107-11 | 00-2242 00-2243 | 00-2081 | | |
| | | | | | 107-42 | 00-2514 00-2515 | 00-2082 | | |
| | | Two | 4 | 4 | 106-64 | UT-03-124 | PT-03-032 | | Limited UT Exam |
| | | | | | 106-68 | UT-03-125 | PT-03-033 | | Limited UT Exam |
| | | | | | 107-1 | UT-03-097 | PT-03-018 | | Limited UT Exam |
| | | | | | 107-22 | UT-03-099 | PT-03-019 | | |
| | 108 & 109 HPSI | One | 2 | 2 | 109-4 | 00-2489 | 00-2396 | | |
| | | | | | 109-21 | 00-2486 00-2488 | 00-2395 | | |
| | 110 & 111 HPSI | One | 2 | 2 | 110-6 | 00-2291 | 00-2222 | | |
| | | | | | 110-39 | 00-2333 00-2388 | 00-2223 | | |
| | | Two | 2 | 2 | 110-17 | UT-03-122 | PT-03-030 | | Limited UT Exam |
| | | | | | 110-52 | UT-03-121 | PT-03-031 | | Limited UT Exam |
| | 112 & 113 HPSI | One | 3 | 3 | 112-1 | 00-2165 | 00-2154 | | |
| | | | | | 112-33 | 00-2166 | 00-2154 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|------------------|---------------------------------|----------|---------|----------|---------|------------------------|------------------------|--------|----------------------------|
| | | | | | 112-45 | 00-2167 | 00-2154 | | |
| | 114 & 115 HPSI | One | 1 | 1 | 115-13 | 00-2334 00-2389 | 00-2256 | | |
| | | Two | 1 | 1 | 115-20 | UT-02-013 UT-02-014 | PT-02-021 | | |
| | 118 & 119 HPSI Recirc | Two | 3 | 3 | 118-49 | UT-02-017 UT-02-018 | PT-02-018 | | |
| | | | | | 119-52 | UT-02-009 UT-02-012 | PT-02-015 | | |
| | | | | | 119-53 | UT-03-123 | PT-03-034 | | Limited UT Exam |
| C 5.30 | 106 & 107 HPSI | One | 1 | 1 | 107-53 | | 00-2092 | | |
| | | Two | 1 | 1 | 106-61 | | PT-02-031 | | |
| | | Three* | 0 | 0 | 107-65 | | PT-06-054 | | PSE, * RR #32 |
| C 5.41 & 5.42 | 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 | | |
| | 96 - 99 LPSI 1A, 1B, 2A & 2B | Two | 1 | 1 | 76-79 | | PT-02-075 | | |
| C 5.51 & 5.52 | 43 MS SG1 | One | 1 | 1 | 43-2 | 99-2370 | 99-2312 | | |
| | 44 MS SG1 | One | 1 | 1 | 44-1 | 99-2369 | 99-2310 | | |
| | | Two | 2 | 2 | 44-5 | UT-02-060 | PT-02-140 MT-03-119 | | |
| | | | | | 44-30 | UT-02-043 UT-03-098 | MT-02-015 MT-03-100 | | |
| | 45 MS SG2 | Two | 0 | 0 | 45-2 | UT-03-184 | MT-03-128 | | |
| | 46 MS SG2 | One | 1 | 1 | 46-25 | 99-2371 | 99-2311 | | |
| | | Two | 1 | 1 | 46-2 | UT-03-185 | MT-03-129 | | |
| | 54 FW SG1 | One | 1 | 1 | 54-41 | 00-2434 | 00-2261 | | |
| | | Two | 1 | 1 | 54-100 | UT-03-079 | MT-03-045 | | PSE |
| | | | | | 54-107 | UT-03-080 | MT-03-046 | | PSE |
| | | | | | 54-11A | UT-02-042 | MT-02-001 | | |
| | | Three* | 2 | 2 | 54-36 | UT-06-130 | | | * RR #32 |
| | | | | | 54-37 | UT-06-131 | | | |
| | 55 FW SG2 | One | 2 | 2 | 55-1 | 00-2074 | 00-2044 | | |
| | | | | | 55-15 | 00-2075 | 00-2044 | | |
| | | Two | 1 | 1 | 55-100 | UT-03-081 | MT-03-047 | | PSE |
| | | | | | 55-107 | UT-03-082 | MT-03-048 | | PSE |
| | | | | | 55-26 | UT-02-041 | MT-02-002 | | |
| | 58 Aux & Dwncmr FW SG1 | One | 1(5) | 1(5) | 41-39 | 99-2393 | 99-2198 | | () Identifies augment Exam |
| | | | | | 58-1 | 99-2392 | 99-2198 | | (IEB 079-13 & SER 83-07) |
| | | | | | 58-12 | 99-2128 | 99-2023 | | |
| | | | | | 58-13 | 99-2129 | 99-2023 | | |
| | | | | | 58-16 | 99-2130 | 99-2023 | | |
| | | | | | 58-16A | 99-2131 | 99-2023 | | |
| | | Two | 0(4) | 0(4) | 41-111 | UT-03-083 | MT-03-049 | | PSE |
| | | | | | 58-12 | UT-02-077 | MT-02-146 | | |
| | | | | | 58-13 | UT-02-069 | MT-02-134 | | |
| | | | | | 58-16 | UT-02-070 | MT-02-135 | | |
| | | | | | 58-16A | UT-02-071 | MT-02-136 | | |
| | 59 Aux & Dwncmr FW 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 | | |
| | | Two | 1(2) | 1(2) | 59-12 | UT-02-078 | MT-02-147 | | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|--------------------|------------------|----------|---------|----------|---------|-----------|--------------|--------|--|
| | | | | | 59-13 | UT-02-072 | MT-02-137 | | |
| | | | | | 59-16 | UT-02-073 | MT-02-138 | | |
| | | | | | 59-16A | UT-02-074 | MT-02-139 | | |
| | | | | | 59-25 | UT-03-084 | MT-03-060 | | |
| | | Three* | 2 | 2 | 59-23 | UT-06-137 | | | * RR #32 |
| | | | | | 59-24 | UT-06-138 | | | |
| | 64 Blowdown SG1 | One | 1 | 1 | 64-30 | 00-2347 | 00-2338 | | |
| | | Two | 1 | 1 | 64-1 | UT-03-202 | MT-03-137 | | PSE |
| | | | | | 64-30 | UT-03-203 | MT-03-139 | | PSE |
| | | | | | 64-80 | UT-03-195 | MT-03-130 | | PSE |
| | 65 Blowdown SG2 | One | 1 | 1 | 65-28 | 00-2348 | 00-2339 | | |
| | | Two | 1 | 1 | 65-1 | UT-03-204 | MT-03-140 | | PSE |
| | | | | | 65-28 | UT-03-205 | MT-03-143 | | PSE |
| | | | | | 65-52 | UT-02-102 | MT-02-145 | | |
| | | Three* | 4 | 4 | 65-41 | UT-06-139 | | | * RR #32 |
| | | | | | 65-42 | UT-06-140 | | | |
| | | | | | 65-43 | UT-06-141 | | | |
| | | | | | 65-44 | UT-06-142 | | | |
| C 6.10 | 116 & 117 HPSI | Interval | 2 | 2 | 116-2 | | 00-2557 | | |
| | | | | | 117-1 | | PT-03-016 | | |
| C6.20 | 49 MS (East) SG2 | Three | 1 | 1 | PSV-554 | | MT-05-005 | | |
| | | | | | PSV-556 | | MT-05-006 | | |
| | 86 SD Cooling B | Three | 1 | 1 | V-464 | | PT-05-012 | | |
| | 89 East Wrap | Three | 1 | 1 | UV-656 | | PT-05-013 | | |
| | 106 HPSI A | Three | 1 | 1 | V-404 | | PT-05-019 | | CC N-460 |
| | 107 HPSI B | Three | 1 | 1 | V-478 | | PT-05-020 | | |
| C 7.10 thru C 7.70 | Piping Systems | One | all | all | Press | | | * | * 00-2041, 00-2042, 00-2138, 00-2140, 00-2141, 00-2142, 00-2143, 00-2146, 00-2147, 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, 01-2037, 01-2050, 01-2038, 01-2036, 01-2032, 01-2022, 01-2021, 01-2020, 01-2019, 01-2018, 01-2017, 01-2016, 01-2012, 01-2003, 01-2002, 01-2001 |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|-------------|-----|--------------|--------------------|--|
| | | Two | all | all | Press | | | * | * VT-02-409 VT-03-438 VT-03-439 VT-03-440 VT-03-443 VT-03-444 VT-03-445 VT-03-447 VT-03-462 VT-03-466 VT-03-467 VT-03-468 VT-03-499 VT-03-500 VT-03-501 VT-03-503 VT-03-504 VT-03-505 VT-03-506 VT-03-507 VT-03-508 VT-03-509 VT-03-551 VT-03-552 VT-03-553 VT-03-554 VT-03-556 VT-03-557 VT-03-630 VT-03-631 VT-03-632 VT-03-633 VT-03-645 VT-03-646 VT-03-700 VT-03-782 VT-03-783 VT-03-784 VT-03-787 VT-03-789 VT-03-790 VT-03-803 VT-03-806 VT-03-807 VT-03-808 VT-03-809 VT-03-810 VT-03-812 |
| | | Three | all | *** | Press | | | * | * VT-06-729 VT-06-759, VT-06-760, VT-06-727, VT-06-728, VT-06-730, VT-06-731, VT-06-733, VT-06-734, VT-06-735, VT-06-740, VT-06-741, VT-06-745, VT-06-742, VT-06-743, VT-06-746, VT-06-747, VT-06-766, VT-06-798, VT-06-781, VT-06-782, VT-06-799, VT-06-001, VT-06-002, VT-06-796, VT-06-666, VT-06-667, VT-06-668, VT-06-785, VT-06-777, VT-06-779, VT-06-776, VT-06-780, VT-06-789, VT-06-790, VT-06-800, VT-06-791, VT-06-792, VT-06-786, VT-06-788, VT-06-797 *** Remainder Scheduled |
| F 1.20 | 41 SG1 | One | 2 | 2 | 41-41 | | | 00-2323 | |
| & 1.40 | | | | | 41-42 | | | 00-2323 00-2185 | |
| | | Two | 0 | 0 | 41-41 | | | VT-03-836 | PSE, RR #4 |
| | | | | | 41-42 | | | VT-03-837 | PSE, RR #4 |
| | 42 SG2 | Two | 2 | 2 | 42-41 | | | VT-03-838 | PSE, RR #4 |
| | | | | | 42-42 | | | VT-03-839 | PSE, RR #4 |
| | 43 MS SG1 | One | 3 | 3 | SG-036-H017 | | | 00-2177 | |
| | | | | | SG-036-H884 | | | 00-2178 | |
| | | | | | SG-036-H885 | | | 00-2179 | |
| | | Two | 2 | 2 | SG-036-H011 | | | VT-03-825 | |
| | | | | | SG-036-H012 | | | VT-02-395 | |
| | | Three | 1 | 1 | SG-036-H011 | | | VT-05-521 | Rej, RR #4 |
| | | | | | SG-036-H011 | | | VT-05-578 | Re-exam / PSE |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|-------------|-----|--------------|-------------------------------------|--------------------------------------|
| | | | | | SG-036-H012 | | | VT-05-522 | Expansion, Snubber Deleted |
| | | | | | SG-036-H016 | | | VT-05-523 | Expansion, RR #4 |
| | | | | | SG-036-H017 | | | VT-05-524 | Expansion, RR #4 |
| | | | | | SG-036-H884 | | | VT-05-525 | Expansion, RR #4 |
| | | | | | SG-036-H885 | | | VT-05-526 | Expansion, RR #4 |
| | | | | | SG-036-H011 | | | VT-06-965 VT-06-964 | Aug. Rej. CRDR 2935286 PSE |
| | | | | | SG-036-H016 | | | VT-06-1707 | Expansion |
| | | | | | SG-036-H884 | | | VT-06-1708 | Expansion |
| | | | | | SG-036-H885 | | | VT-06-1705 | Expansion |
| | 44 MS SG1 | One | 2 | 2 | SG-033-H017 | | | 00-2180 | |
| | | | | | SG-033-H018 | | | 00-2181 | support deleted |
| | | Two | 4 | 4 | SG-033-H011 | | | VT-03-826 | |
| | | | | | SG-033-H015 | | | VT-02-396 | |
| | | | | | SG-033-H016 | | | VT-02-397 | |
| | | | | | SG-033-H881 | | | VT-02-275 | |
| | | | | | SG-033-H882 | | | VT-02-274 | |
| | | Three | 2 | 2 | SG-033-H011 | | | VT-05-527 VT-05-579 VT-06-966 | Expansion, RR #4 PSE Expansion |
| | | | | | SG-033-H014 | | | VT-06-967 | Removed |
| | | | | | SG-033-H015 | | | VT-05-528 | Expansion, Snubber Deleted |
| | | | | | SG-033-H016 | | | VT-05-529 | Expansion, RR #4 |
| | | | | | SG-033-H017 | | | VT-05-530 VT-05-580 VT-06-969 | Rej, RR #4 Re-exam / PSE PSE |
| | | | | | SG-033-H018 | | | VT-05-531 | Expansion, Snubber Deleted |
| | | | | | SG-033-H881 | | | VT-05-532 | Expansion, RR #4 |
| | | | | | SG-033-H882 | | | VT-05-533 | Expansion, RR #4 |
| | 45 MS SG2 | One | 1 | 1 | SG-042-H014 | | | 00-2182 | support deleted |
| | | Two | 3 | 3 | SG-042-H011 | | | VT-03-510 | |
| | | | | | SG-042-H012 | | | VT-02-277 | |
| | | | | | SG-042-H013 | | | VT-02-276 | |
| | | Three | 5 | 5 | SG-042-H011 | | | VT-05-534 VT-05-581 VT-06-970 | Expansion, RR #4 PSE Expansion |
| | | | | | SG-042-H015 | | | VT-06-1697 | Removed |
| | | | | | SG-042-H016 | | | VT-06-1698 | |
| | | | | | SG-042-H017 | | | VT-06-971 | |
| | | | | | SG-042-H890 | | | VT-06-972 | |
| | | | | | SG-042-H891 | | | VT-06-973 | |
| | 46 MS SG2 | One | 2 | 2 | SG-045-H017 | | | 00-2183 00-2551 | |
| | | | | | SG-045-H018 | | | 00-2184 00-2552 | support deleted |
| | | Two | 4 | 4 | SG-045-H011 | | | VT-03-511 | |
| | | | | | SG-045-H012 | | | VT-02-354 | |
| | | | | | SG-045-H887 | | | VT-02-259 | |
| | | | | | SG-045-H888 | | | VT-02-256 | |
| | | Three | 1 | 1 | SG-045-H011 | | | VT-05-535 VT-05-582 VT-06-974 | Expansion, RR #4 PSE Expansion |
| | | | | | SG-045-H012 | | | VT-05-536 | Expansion, Snubber Deleted |
| | | | | | SG-045-H016 | | | VT-05-537 | Expansion, RR #4 |
| | | | | | SG-045-H017 | | | VT-05-538 | Expansion, RR #4 |
| | | | | | SG-045-H017 | | | VT-05-583 | PSE |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|------------------|----------|---------|----------|--------------------|-----|--------------|------------------------|--------------|
| | 47 MS SG1 | One | 1 | 1 | SG-206-H001 | | | 99-2336 | |
| | 48 MS SG1 | Two | 1 | 1 | SG-207-H001 | | | VT-03-685 | |
| | 49 MS (East) SG2 | Three | 1 | 1 | SG-208-H001 | | | VT-05-034 | |
| | 50 MS (West) SG2 | Three | 1 | 1 | SG-209-H001 | | | VT-05-035 | |
| | 51 Atmos | One | 1 | 1 | SG-059-H006 | | | 99-2090 | |
| | Dump SG1 | Two | 1 | 1 | SG-070-H006 | | | VT-03-522 | |
| | 52 Atmos | Three | 2 | 2 | SG-084-H006 | | | VT-05-036 | |
| | Dump SG2 | | | | SG-103-H006 | | | VT-06-976 | RR #4 |
| | 53 Steam to | One | 4 | 4 | SG-081-H001 | | | 99-2072 | |
| | Aux FW | | | | SG-081-H002 | | | 99-2073 | |
| | | | | | SG-083-H001 | | | 99-2074 | |
| | | | | | SG-083-H002 | | | 99-2075 | |
| | | Two | 2 | 2 | SG-081-H004 | | | VT-02-089 | |
| | | | | | SG-083-H004 | | | VT-02-090 | |
| | | Three | 2 | 2 | SG-081-H003 | | | VT-05-037 | |
| | | | | | SG-083-H003 | | | VT-05-038 | |
| | 54 FW SG1 | One | 7 | 7 | SG-002-H004 | | | 00-2312 | |
| | | | | | SG-002-H005 | | | 00-2313 | |
| | | | | | SG-002-H012 | | | 00-2562 | |
| | | | | | SG-002-H013 | | | 00-2314 | |
| | | | | | SG-002-H014 | | | 00-2315 | |
| | | | | | SG-002-H015 | | | 00-2316 | |
| | | | | | SG-002-H803 | | | 00-2540 | |
| | | Two | 7 | 7 | SG-002-H009 | | | VT-03-520 | |
| | | | | | SG-002-H010 | | | VT-03-517 | |
| | | | | | SG-002-H011 | | | VT-02-008 VT-02-011 | |
| | | | | | SG-002-H806 | | | VT-03-518 | |
| | | | | | SG-002-H811 | | | VT-03-519 | |
| | | | | | SG-013-H001 | | | VT-03-515 | |
| | | | | | SG-013-H802 | | | VT-03-516 | |
| | | Three | 6 | 6 | SG-002-H002 | | | VT-05-539 | Expansion |
| | | | | | SG-002-H012 | | | VT-05-540 | Expansion |
| | | | | | SG-013-H001 | | | VT-05-541 | Expansion |
| | | | | | SG-002-H001 | | | VT-06-977 | RR #4 |
| | | | | | SG-002-H003 | | | VT-06-978 | RR #4 |
| | | | | | SG-002-H006 | | | VT-06-979 | RR #4 |
| | | | | | SG-002-H008 | | | VT-06-980 | RR #4 |
| | | | | | SG-002-H807 | | | VT-06-981 | RR #4 |
| | 55 FW SG2 | One | 9 | 9 | SG-005-H009 | | | 00-2297 | |
| | | | | | SG-005-H010 | | | 00-2298 | |
| | | | | | SG-005-H011 | | | 00-2299 | |
| | | | | | SG-005-H012 | | | 00-2541 | |
| | | | | | SG-005-H805 | | | 00-2542 | |
| | | | | | SG-005-H809 | | | 00-2545 | |
| | | | | | SG-005-H812 | | | 00-2361 | |
| | | | | | SG-014-H001 | | | 00-2543 | |
| | | | | | SG-014-H804 | | | 00-2544 | |
| | | Two | 7 | 7 | SG-005-H004 | | | VT-02-246 VT-02-247 | |
| | | | | | SG-005-H005 | | | VT-02-248 | |
| | | | | | SG-005-H006 | | | VT-02-253 VT-02-249 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|-------------|-----|--------------|-------------------------------------|-------------------|
| | | | | | SG-005-H007 | | | VT-02-250 VT-02-254 | |
| | | | | | SG-005-H008 | | | VT-02-272 | |
| | | | | | SG-005-H013 | | | VT-02-273 | |
| | | | | | SG-005-H014 | | | VT-02-255 VT-02-251 | |
| | | Three | 4 | 4 | SG-005-H001 | | | VT-06-982 | |
| | | | | | SG-005-H002 | | | VT-06-983 | |
| | | | | | SG-005-H003 | | | VT-06-984 | |
| | | | | | SG-005-H808 | | | VT-06-985 | |
| | 56 FW SG1 | Two | 1 | 1 | SG-202-H001 | | | VT-03-626 | |
| | 57 FW SG1 | Three | 1 | 1 | SG-205-H002 | | | VT-05-039 | |
| | 58 Aux & | One | 7 | 7 | SG-008-H002 | | | 00-2317 | |
| | Dwncmr SG1 | | | | SG-008-H003 | | | 00-2318 | |
| | | | | | SG-008-H004 | | | 00-2319 | |
| | | | | | SG-008-H005 | | | 00-2320 | |
| | | | | | SG-008-H020 | | | 00-2321 | |
| | | | | | SG-008-H901 | | | 00-2436 | |
| | | | | | SG-008-H903 | | | 00-2437 | |
| | | Two | 7 | 7 | SG-008-H006 | | | VT-02-340 | |
| | | | | | SG-008-H007 | | | VT-02-343 VT-02-341 | |
| | | | | | SG-008-H008 | | | VT-02-205 | |
| | | | | | SG-008-H009 | | | VT-02-208 VT-02-206 | |
| | | | | | SG-008-H010 | | | VT-02-207 VT-02-212 VT-03-521 | |
| | | | | | SG-008-H011 | | | VT-02-209 VT-03-549 | |
| | | | | | SG-008-H017 | | | VT-02-342 VT-03-550 | |
| | 58 Aux & Dwncmr | Three | 8 | 8 | SG-008-H004 | | | VT-05-542 | Expansion |
| | FW SG1 | | | | SG-008-H011 | | | VT-05-543 | Expansion |
| | | | | | SG-008-H015 | | | VT-05-544 | Expansion |
| | | | | | AF-004-H001 | | | VT-06-986 | |
| | | | | | SG-008-H012 | | | VT-06-987 | |
| | | | | | SG-008-H013 | | | VT-06-988 | |
| | | | | | SG-008-H014 | | | VT-06-989 | |
| | | | | | SG-008-H016 | | | VT-06-990 | |
| | | | | | SG-008-H018 | | | VT-06-991 | |
| | | | | | SG-008-H019 | | | VT-06-992 | |
| | 59 Aux & | One | 6 | 6 | AF-006-H001 | | | 99-2137 | |
| | Dwncmr FW SG2 | | | | SG-011-H004 | | | 99-2507 | Expansion |
| | | | | | SG-011-H008 | | | 99-2040 | |
| | | | | | SG-011-H009 | | | 99-2041 | |
| | | | | | SG-011-H010 | | | 99-2042 | |
| | | | | | SG-011-H011 | | | 99-2043 99-2508 | Reject Re-exam |
| | | | | | SG-011-H012 | | | 99-2044 | |
| | | | | | SG-011-H016 | | | 99-2509 | Expansion |
| | | Two | 6 | 6 | SG-011-H013 | | | VT-02-353 | |
| | | | | | SG-011-H014 | | | VT-02-214 VT-02-213 | |
| | | | | | SG-011-H015 | | | VT-02-210 | |
| | | | | | SG-011-H016 | | | VT-02-204 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|-------------|-----|--------------|------------|-----------------|
| | | | | | SG-011-H018 | | | VT-02-352 | |
| | | | | | SG-011-H019 | | | VT-02-211 | |
| | | Three | 10 | 10 | SG-011-H002 | | | VT-06-993 | RR #4 |
| | | | | | SG-011-H003 | | | VT-06-994 | RR #4 |
| | | | | | SG-011-H004 | | | VT-06-995 | RR #4 |
| | | | | | SG-011-H005 | | | VT-06-996 | RR #4 |
| | | | | | SG-011-H006 | | | VT-06-997 | |
| | | | | | SG-011-H007 | | | VT-06-998 | |
| | | | | | SG-011-H017 | | | VT-06-999 | |
| | | | | | SG-011-H020 | | | VT-06-1000 | RR #4 |
| | | | | | SG-011-H902 | | | VT-06-1001 | |
| | | | | | SG-011-H904 | | | VT-06-1002 | RR #4 |
| | 60 Dwncmr FW | One | 1 | 1 | SG-200-H009 | | | 99-2086 | |
| | SG1 | | | | SG-200-H013 | | | 99-2521 | PSE |
| | | | | | SG-200-H014 | | | 99-2483 | PSE |
| | | Three | 2 | 2 | SG-200-H009 | | | VT-05-040 | |
| | | | | | SG-200-H013 | | | VT-05-041 | |
| | | | | | SG-200-H014 | | | VT-05-042 | |
| | 61 Dwncmr FW | One | 0 | 0 | SG-203-H013 | | | 99-2519 | PSE |
| | SG2 | | | | SG-203-H014 | | | 99-2520 | PSE |
| | | Two | 2 | 2 | SG-203-H013 | | | VT-03-781 | |
| | | | | | SG-203-H014 | | | VT-03-774 | |
| | | Three | 1 | 1 | SG-203-H008 | | | VT-05-043 | |
| | 62 Aux FW SG1 | One | 1 | 1 | AF-004-H003 | | | 99-2136 | |
| | | Two | 1 | 1 | AF-018-H001 | | | VT-03-775 | |
| | | Three | 2 | 2 | AF-018-H002 | | | VT-05-044 | |
| | | | | | AF-018-H003 | | | VT-05-045 | |
| | 63 Aux FW SG2 | One | 2 | 2 | AF-006-H002 | | | 99-2138 | |
| | | | | | AF-016-H001 | | | 99-2139 | |
| | | Two | 2 | 2 | AF-006-H003 | | | VT-03-776 | |
| | | | | | AF-006-H005 | | | VT-03-777 | |
| | | Three | 1 | 1 | AF-006-H004 | | | VT-05-046 | |
| | 64 Blowdown SG1 | One | 12 | 12 | SG-039-H010 | | | 00-2049 | |
| | | | | | SG-039-H011 | | | 00-2050 | support deleted |
| | | | | | SG-039-H012 | | | 00-2051 | |
| | | | | | SG-039-H013 | | | 00-2052 | support deleted |
| | | | | | SG-039-H014 | | | 00-2063 | support deleted |
| | | | | | SG-039-H015 | | | 00-2064 | |
| | | | | | SG-039-H016 | | | 00-2065 | |
| | | | | | SG-039-H017 | | | 00-2053 | support deleted |
| | | | | | SG-039-H026 | | | 00-2054 | |
| | | | | | SG-053-H001 | | | 00-2071 | support deleted |
| | | | | | SG-053-H002 | | | 00-2072 | support deleted |
| | | | | | SG-053-H007 | | | 99-2161 | support deleted |
| | | | | | SG-053-H924 | | | 00-2062 | |
| | | Two | 15 | 15 | SG-039-H001 | | | VT-02-003 | |
| | | | | | SG-039-H002 | | | VT-02-002 | |
| | | | | | SG-039-H003 | | | VT-02-032 | |
| | | | | | SG-039-H004 | | | VT-02-033 | |
| | | | | | SG-039-H005 | | | VT-02-034 | |
| | | | | | SG-039-H006 | | | VT-02-035 | |
| | | | | | SG-039-H027 | | | VT-02-036 | |
| | | | | | SG-039-H038 | | | VT-03-820 | PSE |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-------------------|----------|---------|----------|-------------|-----|--------------|------------|-----------------|
| | | | | | SG-039-H922 | | | VT-03-821 | |
| | | | | | SG-053-H003 | | | VT-02-041 | |
| | | | | | SG-053-H004 | | | VT-02-042 | |
| | | | | | SG-053-H005 | | | VT-02-043 | |
| | | | | | SG-053-H006 | | | VT-02-044 | |
| | | | | | SG-053-H007 | | | VT-02-045 | |
| | | | | | SG-522-H001 | | | VT-03-822 | PSE |
| | | | | | SG-522-H002 | | | VT-03-834 | PSE |
| | | Three | 5 | 5 | SG-522-H002 | | | VT-05-545 | Expansion |
| | | | | | SG-039-H009 | | | VT-06-1003 | |
| | | | | | SG-039-H018 | | | VT-06-1004 | |
| | | | | | SG-039-H022 | | | VT-06-1005 | |
| | | | | | SG-039-H024 | | | VT-06-1006 | |
| | | | | | SG-039-H025 | | | VT-06-1007 | |
| | | | | | SG-053-H005 | | | VT-06-1551 | Aug |
| | 65 Blowdown SG2 | One | 12 | 12 | SG-048-H002 | | | 00-2066 | support deleted |
| | | | | | SG-048-H003 | | | 00-2055 | support deleted |
| | | | | | SG-048-H004 | | | 00-2056 | |
| | | | | | SG-048-H019 | | | 00-2057 | support deleted |
| | | | | | SG-048-H020 | | | 00-2058 | support deleted |
| | | | | | SG-048-H021 | | | 00-2059 | |
| | | | | | SG-048-H925 | | | 00-2060 | |
| | | | | | SG-052-H001 | | | 00-2067 | support deleted |
| | | | | | SG-052-H002 | | | 00-2068 | support deleted |
| | | | | | SG-052-H003 | | | 00-2069 | support deleted |
| | | | | | SG-052-H004 | | | 00-2070 | |
| | | | | | SG-052-H923 | | | 00-2061 | |
| | | Two | 15 | 15 | SG-048-H013 | | | VT-02-025 | |
| | | | | | SG-048-H014 | | | VT-02-024 | |
| | | | | | SG-048-H015 | | | VT-02-023 | |
| | | | | | SG-048-H016 | | | VT-02-026 | |
| | | | | | SG-048-H017 | | | VT-02-027 | |
| | | | | | SG-048-H018 | | | VT-02-022 | |
| | | | | | SG-048-H022 | | | VT-02-021 | |
| | | | | | SG-048-H023 | | | VT-02-028 | |
| | | | | | SG-048-H024 | | | VT-02-031 | |
| | | | | | SG-048-H025 | | | VT-02-030 | |
| | | | | | SG-048-H026 | | | VT-02-029 | |
| | | | | | SG-523-H001 | | | VT-03-835 | PSE |
| | | | | | SG-523-H002 | | | VT-03-823 | PSE |
| | | | | | SG-523-H003 | | | VT-03-827 | PSE |
| | | | | | SG-523-H004 | | | VT-03-824 | PSE |
| | | Three | 6 | 6 | SG-048-H005 | | | VT-06-1008 | |
| | | | | | SG-048-H010 | | | VT-06-1009 | |
| | | | | | SG-048-H011 | | | VT-06-1010 | |
| | | | | | SG-048-H027 | | | VT-06-1011 | |
| | | | | | SG-048-H028 | | | VT-06-1012 | |
| | | | | | SG-052-H005 | | | VT-06-1013 | |
| | 68 Regen HTEXCH | Three | 2 | 2 | 68-10 | | | VT-05-047 | |
| | | | | | 68-11 | | | VT-05-048 | |
| | 70 LPSI Suction A | One | 1 | 1 | SI-067-H004 | | | 99-2223 | |
| | | Three | 4 | 4 | SI-241-H020 | | | VT-05-049 | RR #4 |
| | | | | | SI-241-H022 | | | VT-05-050 | Snubber deleted |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-------------------|----------|---------|----------|-------------|-----|--------------|------------------------|---------|
| | | | | | SI-307-H016 | | | VT-05-051 | RR #4 |
| | | | | | SI-307-H017 | | | VT-05-052 | RR #4 |
| | 71 LPSI | One | 1 | 1 | SI-087-H011 | | | 99-2039 | |
| | Discharge A | Two | 5 | 5 | SI-078-H001 | | | VT-02-053 | |
| | | | | | SI-078-H002 | | | VT-02-052 | |
| | | | | | SI-087-H001 | | | VT-02-051 | |
| | | | | | SI-087-H002 | | | VT-02-050 | |
| | | | | | SI-087-H003 | | | VT-02-049 | |
| | | Three | 1 | 1 | SI-078-H003 | | | VT-05-053 | |
| | 72 LPSI PUMP A | One | 3 | 3 | 72-3A | | | 99-2482 | |
| | | | | | 72-3B | | | 99-2482 | |
| | | | | | 72-3C | | | 99-2482 | |
| | 73 LPSI B Suction | Two | 1 | 1 | SI-308-H014 | | | VT-02-289 | |
| | | Three | 4 | 4 | SI-034-H004 | | | VT-05-054 | RR #4 |
| | | | | | SI-194-H001 | | | VT-05-055 | RR #4 |
| | | | | | SI-308-H012 | | | VT-05-056 | RR #4 |
| | | | | | SI-308-H013 | | | VT-05-057 | RR #4 |
| | 74 LPSI B | Three | 6 | 6 | SI-129-H001 | | | VT-05-058 | RR #4 |
| | Discharge | | | | SI-129-H002 | | | VT-05-059 | |
| | | | | | SI-129-H003 | | | VT-05-060 | RR #4 |
| | | | | | SI-129-H004 | | | VT-05-061 | RR #4 |
| | | | | | SI-129-H005 | | | VT-05-062 | RR #4 |
| | | | | | SI-129-H006 | | | VT-05-063 | RR #4 |
| | 75 LPSI Pump B | Two | 3 | 3 | 73-3A | | | VT-03-647 | |
| | | | | | 73-3B | | | VT-03-648 | |
| | | | | | 73-3C | | | VT-03-649 | |
| | 76 CS Suction A | One | 1 | 1 | SI-009-H004 | | | 99-2195 | |
| | | Three | 3 | 3 | SI-067-H001 | | | VT-05-064 | RR #4 |
| | | | | | SI-067-H002 | | | VT-05-065 | RR #4 |
| | | | | | SI-067-H003 | | | VT-05-066 | RR #4 |
| | 77 CS Discharge A | One | 4 | 4 | SI-079-H001 | | | 99-2169 | |
| | | | | | SI-079-H002 | | | 99-2101 | |
| | | | | | SI-079-H003 | | | 99-2102 | |
| | | | | | SI-079-H004 | | | 99-2170 | |
| | | Two | 3 | 3 | SI-079-H005 | | | VT-03-654 | RR #4 |
| | | | | | SI-079-H006 | | | VT-03-665 | RR #4 |
| | | | | | SI-082-H002 | | | VT-03-666 | RR #4 |
| | | Three | 3 | 3 | SI-079-H007 | | | VT-05-067 | RR #4 |
| | | | | | SI-079-H008 | | | VT-05-068 | RR #4 |
| | | | | | SI-079-H009 | | | VT-05-069 | RR #4 |
| | 78 CS Pump A | Two | 3 | 3 | 80-3A | | | VT-03-627 | |
| | | | | | 80-3B | | | VT-03-628 | |
| | | | | | 80-3C | | | VT-03-589 VT-03-629 | |
| | 79 CS Suction B | One | 3 | 3 | SI-034-H001 | | | 99-2162 | |
| | | | | | SI-034-H002 | | | 99-2163 | |
| | | | | | SI-034-H003 | | | 99-2164 | |
| | | Two | 1 | 1 | SI-033-H004 | | | VT-03-600 | RR #4 |
| | | Three | 2 | 2 | SI-034-H005 | | | VT-05-070 | |
| | | | | | SI-034-H006 | | | VT-05-071 | |
| | 80 CS Discharge B | One | 3 | 3 | SI-119-H007 | | | 99-2267 | |
| | | | | | SI-119-H008 | | | 99-2262 | |
| | | | | | SI-119-H009 | | | 99-2268 | |
| | | Two | 4 | 4 | SI-119-H001 | | | 01-2004 | |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-----------------|----------|---------|----------|-------------|-----|--------------|------------------------|----------------|
| | | | | | SI-119-H002 | | | VT-03-591 | RR #4 |
| | | | | | SI-119-H003 | | | VT-03-605 | RR #4 |
| | | | | | SI-119-H004 | | | VT-03-599 | RR #4 |
| | | Three | 3 | 3 | SI-119-H005 | | | VT-05-072 | |
| | | | | | SI-119-H006 | | | VT-05-073 | |
| | | | | | SI-147-H001 | | | VT-05-074 | |
| | 81 CS Pump B | Three | 3 | 3 | 81-3A | | | VT-05-075 | |
| | | | | | 81-3B | | | VT-05-076 | |
| | | | | | 81-3C | | | VT-05-077 | |
| | 82 SD Cooling A | One | 2 | 2 | SI-078-H005 | | | 99-2093 | |
| | | | | | SI-079-H010 | | | 99-2096 | |
| | | Three | 1 | 1 | SI-078-H004 | | | VT-05-078 | RR #4 |
| | 83 SD Cooling A | One | 4 | 4 | SI-087-H009 | | | 99-2095 | |
| | | | | | SI-089-H001 | | | 99-2085 | |
| | | | | | SI-089-H002 | | | 99-2098 | |
| | | | | | SI-089-H003 | | | 99-2097 | |
| | | Two | 3 | 3 | SI-087-H004 | | | VT-03-634 | |
| | | | | | SI-090-H001 | | | VT-03-635 | |
| | | | | | SI-090-H002 | | | VT-03-636 | |
| | | Three | 12 | 12 | SI-070-H001 | | | VT-05-079 | RR #4 |
| | | | | | SI-070-H002 | | | VT-05-080 | RR #4 |
| | | | | | SI-070-H003 | | | VT-05-081 | RR #4 |
| | | | | | SI-070-H006 | | | VT-05-082 | |
| | | | | | SI-070-H007 | | | VT-05-083 | RR #4 |
| | | | | | SI-082-H001 | | | VT-05-084 | RR #4 |
| | | | | | SI-087-H005 | | | VT-05-085 | RR #4 |
| | | | | | SI-087-H006 | | | VT-05-086 | RR #4 |
| | | | | | SI-087-H007 | | | VT-05-087 | RR #4 |
| | | | | | SI-087-H008 | | | VT-05-088 | RR #4 |
| | | | | | SI-089-H005 | | | VT-05-089 | RR #4 |
| | | | | | SI-090-H004 | | | VT-05-090 | RR #4 |
| | 85 SD Cooling B | One | 3 | 3 | SI-119-H010 | | | 99-2185 | |
| | | | | | SI-123-H006 | | | 99-2186 | |
| | | | | | SI-123-H007 | | | 99-2187 | |
| | | Two | 6 | 6 | SI-119-H011 | | | VT-03-593 | |
| | | | | | SI-119-H013 | | | VT-03-595 | |
| | | | | | SI-119-H014 | | | VT-03-596 | |
| | | | | | SI-123-H002 | | | VT-03-601 | RR #4 |
| | | | | | SI-123-H005 | | | VT-03-602 | RR #4 |
| | | | | | SI-123-H008 | | | VT-03-603 | RR #4 |
| | | Three | 1 | 1 | SI-123-H001 | | | VT-04-322 | PSE |
| | 86 SD Cooling B | One | 3 | 3 | SI-129-H010 | | | 99-2188 | |
| | | | | | SI-129-H011 | | | 99-2189 | |
| | | | | | SI-129-H012 | | | 99-2190 99-2530 | |
| | | Two | 7 | 7 | SI-072-H005 | | | VT-03-620 | RR #4 |
| | | | | | SI-072-H006 | | | VT-03-621 | RR #4 |
| | | | | | SI-129-H007 | | | VT-03-624 VT-03-699 | RR #4 RR #4 |
| | | | | | SI-129-H008 | | | VT-03-696 | RR #4 |
| | | | | | SI-129-H012 | | | 01-2005 | |
| | | | | | SI-135-H001 | | | VT-03-622 | RR #4 |
| | | | | | SI-135-H002 | | | VT-03-623 | RR #4 |
| | | | | | SI-135-H003 | | | VT-03-625 | RR #4 |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|-------------|-----|--------------|--------------------|-------------------|
| | | Three | 15 | 15 | SI-072-H001 | | | VT-05-091 | RR #4 |
| | | | | | SI-072-H002 | | | VT-05-092 | RR #4 |
| | | | | | SI-072-H003 | | | VT-05-093 | RR #4 |
| | | | | | SI-072-H004 | | | VT-05-094 | RR #4 |
| | | | | | SI-072-H012 | | | VT-05-095 | RR #4 |
| | | | | | SI-129-H009 | | | VT-05-096 | RR #4 |
| | | | | | SI-129-H013 | | | VT-05-097 | RR #4 |
| | | | | | SI-134-H001 | | | VT-05-098 | RR #4 |
| | | | | | SI-134-H002 | | | VT-05-099 | RR #4 |
| | | | | | SI-134-H003 | | | VT-05-100 | RR #4 |
| | | | | | SI-134-H005 | | | VT-05-101 | RR #4 |
| | | | | | SI-134-H006 | | | VT-05-102 | RR #4 |
| | | | | | SI-134-H007 | | | VT-05-103 | RR #4 |
| | | | | | SI-134-H008 | | | VT-05-104 | RR #4 |
| | | | | | SI-147-H002 | | | VT-05-105 | RR #4 |
| | 88 East Wrap | One | 8 | 8 | SI-072-H011 | | | 99-2317 | |
| | | | | | SI-072-H013 | | | 99-2316 | |
| | | | | | SI-072-H014 | | | 99-2315 | |
| | | | | | SI-072-H021 | | | 00-2186 | |
| | | | | | SI-072-H022 | | | 00-2187 | |
| | | | | | SI-073-H001 | | | 00-2188 | |
| | | | | | SI-073-H002 | | | 00-2189 | |
| | | | | | SI-073-H003 | | | 00-2190 | |
| | | Three | 6 | 6 | SI-072-H015 | | | VT-05-106 | RR #4 |
| | | | | | SI-072-H016 | | | VT-05-107 | RR #4 |
| | | | | | SI-072-H017 | | | VT-05-108 | RR #4 |
| | | | | | SI-072-H018 | | | VT-05-109 | RR #4 |
| | | | | | SI-072-H019 | | | VT-05-110 | RR #4 |
| | | | | | SI-072-H020 | | | VT-05-111 | RR #4 |
| | 89 East Wrap | One | 4 | 4 | SI-194-H012 | | | 99-2275 | |
| | | | | | SI-194-H013 | | | 99-2274 | |
| | | | | | SI-194-H014 | | | 99-2273 | |
| | | | | | SI-194-H023 | | | 99-2309 99-2331 | Reject Re-exam |
| | | Three | 1 | 1 | SI-173-H001 | | | VT-05-112 | |
| | | | | | SI-194-H023 | | | VT-05-113 | |
| | 90 East Wrap | Two | 2 | 2 | SI-134-H009 | | | VT-03-612 | RR #4 |
| | | | | | SI-134-H010 | | | VT-03-611 | RR #4 |
| | 91 West Wrap | One | 7 | 7 | SI-070-H009 | | | 99-2165 | |
| | | | | | SI-070-H010 | | | 99-2166 | |
| | | | | | SI-070-H011 | | | 99-2114 | |
| | | | | | SI-070-H012 | | | 99-2167 | |
| | | | | | SI-070-H013 | | | 99-2115 | |
| | | | | | SI-070-H015 | | | 99-2168 | |
| | | | | | SI-070-H016 | | | 99-2116 | |
| | | Two | 2 | 2 | SI-071-H002 | | | VT-03-597 | |
| | | | | | SI-071-H003 | | | VT-03-598 | |
| | | Three | 1 | 1 | SI-070-H014 | | | VT-05-114 | |
| | 92 West Wrap | One | 5 | 5 | SI-239-H003 | | | 99-2172 | |
| | | | | | SI-241-H012 | | | 99-2173 | |
| | | | | | SI-241-H014 | | | 99-2174 | |
| | | | | | SI-241-H015 | | | 99-2175 | |
| | | | | | SI-241-H021 | | | 99-2176 | |
| | | Two | 5 | 5 | SI-239-H001 | | | VT-03-604 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|--------------------|----------|---------|----------|-------------|-----|--------------|------------------------|-----------------|
| | | | | | SI-239-H002 | | | VT-03-606 | |
| | | | | | SI-241-H009 | | | VT-03-581 | |
| | | | | | SI-241-H011 | | | VT-03-584 | |
| | | | | | SI-241-H016 | | | VT-03-585 | Deleted |
| | | Three | 2 | 2 | SI-002-H001 | | | VT-05-115 | Snubber Deleted |
| | | | | | SI-002-H005 | | | VT-05-116 | Snubber Deleted |
| | 93 West Wrap | Two | 2 | 2 | SI-089-H010 | | | VT-03-561 | RR #4 |
| | | | | | SI-089-H013 | | | VT-03-563 | |
| | | Three | 2 | 2 | SI-089-H011 | | | VT-05-117 | RR #4 |
| | | | | | SI-089-H012 | | | VT-05-118 | RR #4 |
| | 94 LPSI A | One | 3 | 3 | SI-089-H007 | | | 99-2399 | |
| | | | | | SI-089-H008 | | | 99-2400 | |
| | | | | | SI-089-H009 | | | 99-2401 | |
| | | Two | 7 | 7 | SI-070-H004 | | | VT-03-655 | RR #4 |
| | | | | | SI-070-H005 | | | VT-03-656 | |
| | | | | | SI-070-H008 | | | VT-03-769 | |
| | | | | | SI-241-H006 | | | VT-02-062 | |
| | | | | | SI-241-H007 | | | VT-02-061 | |
| | | | | | SI-241-H008 | | | VT-02-088 | |
| | | | | | SI-241-H017 | | | VT-02-075 | |
| | | Three | 5 | 5 | SI-089-H006 | | | VT-05-119 | RR #4 |
| | | | | | SI-241-H002 | | | VT-05-120 | RR #4 |
| | | | | | SI-241-H003 | | | VT-05-121 | |
| | | | | | SI-241-H004 | | | VT-05-122 | RR #4 |
| | | | | | SI-241-H005 | | | VT-05-123 | RR #4 |
| | 95 LPSI B | One | 6 | 6 | SI-072-H008 | | | 99-2402 | |
| | | | | | SI-072-H010 | | | 99-2403 | |
| | | | | | SI-134-H011 | | | 99-2404 | |
| | | | | | SI-134-H012 | | | 99-2405 | |
| | | | | | SI-194-H003 | | | 99-2406 | support deleted |
| | | | | | SI-194-H005 | | | 99-2407 | |
| | | | | | SI-194-H006 | | | 99-2408 | Expansion |
| | | Two | 10 | 10 | SI-072-H007 | | | VT-02-047 VT-02-059 | |
| | | | | | SI-072-H009 | | | VT-02-046 | |
| | | | | | SI-194-H004 | | | VT-03-663 | RR #4 |
| | | | | | SI-194-H007 | | | VT-03-664 | RR #4 |
| | | | | | SI-194-H008 | | | VT-03-661 | RR #4 |
| | | | | | SI-194-H009 | | | VT-03-671 VT-03-770 | RR #4 |
| | | | | | SI-194-H010 | | | VT-03-672 VT-03-674 | RR #4 RR #4 |
| | | | | | SI-194-H011 | | | VT-03-673 | RR #4 |
| | | | | | SI-194-H015 | | | VT-03-675 | RR #4 |
| | | | | | SI-194-H021 | | | VT-03-662 | RR #4 |
| | | Three | 3 | 3 | SI-134-H004 | | | VT-05-124 | RR #4 |
| | | | | | SI-194-H002 | | | VT-05-125 | RR #4 |
| | | | | | SI-194-H006 | | | VT-05-126 | RR #4 |
| | 96 LPSI to Loop 1A | One | 3 | 3 | SI-202-H007 | | | 99-2467 | |
| | | | | | SI-202-H008 | | | 99-2468 | support deleted |
| | | | | | SI-202-H009 | | | 99-2469 | support deleted |
| | | Two | 7 | 7 | SI-202-H002 | | | VT-03-535 | |
| | | | | | SI-202-H003 | | | VT-02-081 | |
| | | | | | SI-202-H004 | | | VT-02-080 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|--------------------|----------|---------|----------|-------------|-----|--------------|------------|-----------------|
| | | | | | SI-202-H006 | | | VT-02-079 | |
| | | | | | SI-202-H010 | | | VT-02-077 | Deleted |
| | | | | | SI-202-H011 | | | VT-02-078 | Deleted |
| | | | | | SI-202-H015 | | | VT-02-082 | |
| | | Three | 5 | 5 | SI-202-H001 | | | VT-06-1014 | |
| | | | | | SI-202-H012 | | | VT-06-1015 | |
| | | | | | SI-202-H016 | | | VT-06-1016 | |
| | | | | | SI-202-H017 | | | VT-06-1017 | |
| | | | | | SI-202-H018 | | | VT-06-1018 | |
| | 97 LPSI to Loop 1B | One | 10 | 10 | SI-220-H008 | | | 00-2438 | |
| | | | | | SI-220-H009 | | | 99-2470 | |
| | | | | | SI-220-H010 | | | 99-2471 | |
| | | | | | SI-220-H011 | | | 99-2472 | support deleted |
| | | | | | SI-220-H012 | | | 99-2473 | |
| | | | | | SI-220-H013 | | | 99-2474 | |
| | | | | | SI-220-H014 | | | 99-2475 | support deleted |
| | | | | | SI-220-H015 | | | 99-2476 | |
| | | | | | SI-220-H019 | | | 99-2480 | |
| | | | | | SI-220-H022 | | | 99-2481 | support deleted |
| | | Two | 7 | 7 | SI-220-H001 | | | VT-02-298 | |
| | | | | | SI-220-H016 | | | VT-02-299 | |
| | | | | | SI-220-H017 | | | VT-02-300 | |
| | | | | | SI-220-H018 | | | VT-02-301 | |
| | | | | | SI-220-H020 | | | VT-03-536 | |
| | | | | | SI-220-H021 | | | VT-02-302 | Deleted |
| | | | | | SI-220-H028 | | | VT-02-303 | |
| | | Three | 7 | 7 | SI-220-H005 | | | VT-06-1019 | |
| | | | | | SI-220-H007 | | | VT-06-1020 | |
| | | | | | SI-220-H023 | | | VT-06-1699 | |
| | | | | | SI-220-H024 | | | VT-06-1021 | |
| | | | | | SI-220-H026 | | | VT-06-1022 | Removed |
| | | | | | SI-220-H027 | | | VT-06-1023 | |
| | | | | | SI-220-H029 | | | VT-06-1024 | |
| | 98 LPSI to Loop 2A | One | 2 | 2 | SI-155-H005 | | | 99-2100 | |
| | | | | | SI-155-H006 | | | 99-2084 | |
| | | Two | 5 | 5 | SI-155-H001 | | | VT-02-087 | |
| | | | | | SI-155-H002 | | | VT-02-084 | |
| | | | | | SI-155-H003 | | | VT-02-085 | Deleted |
| | | | | | SI-155-H004 | | | VT-02-086 | |
| | | | | | SI-155-H007 | | | VT-02-083 | |
| | 99 LPSI to Loop 2B | Two | 5 | 5 | SI-174-H007 | | | VT-02-404 | Deleted |
| | | | | | SI-174-H008 | | | VT-02-405 | |
| | | | | | SI-174-H009 | | | VT-02-406 | Deleted |
| | | | | | SI-174-H010 | | | VT-02-407 | |
| | | | | | SI-174-H013 | | | VT-02-408 | |
| | | Three | 5 | 5 | SI-174-H004 | | | VT-06-1025 | |
| | | | | | SI-174-H005 | | | VT-06-1026 | |
| | | | | | SI-174-H006 | | | VT-06-1027 | Removed |
| | | | | | SI-174-H011 | | | VT-06-1028 | |
| | | | | | SI-174-H012 | | | VT-06-1029 | |
| | 100 LPSI A Suction | One | 2 | 2 | SI-241-H019 | | | 99-2340 | |
| | | | | | SI-369-H001 | | | 99-2341 | |
| | | Two | 1 | 1 | 84-5 | | | VT-03-828 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|--------------------|----------|---------|----------|-------------|-----|--------------|------------|-----------------|
| | 101 LPSI B Suction | One | 0 | 0 | SI-194-H026 | | | 99-2443 | Expansion |
| | | Three | 6 | 6 | 85-5 | | | VT-05-127 | |
| | | | | | SI-194-H016 | | | VT-06-1030 | RR #4 |
| | | | | | SI-194-H022 | | | VT-06-1031 | |
| | | | | | SI-194-H026 | | | VT-06-1032 | RR #4 |
| | | | | | SI-368-H001 | | | VT-06-1033 | |
| | | | | | SI-368-H002 | | | VT-06-1034 | RR #4 |
| | 102 SI Suction A | One | 6 | 6 | SI-307-H002 | | | 00-2301 | |
| | | | | | SI-307-H003 | | | 00-2302 | |
| | | | | | SI-307-H004 | | | 00-2303 | support deleted |
| | | | | | SI-307-H005 | | | 00-2258 | |
| | | | | | SI-307-H008 | | | 00-2257 | |
| | | | | | SI-307-H015 | | | 00-2304 | |
| | | Two | 7 | 7 | SI-008-H001 | | | VT-02-055 | |
| | | | | | SI-008-H002 | | | VT-02-054 | |
| | | | | | SI-008-H003 | | | VT-02-056 | |
| | | | | | SI-008-H004 | | | VT-02-057 | |
| | | | | | SI-307-H006 | | | VT-02-060 | |
| | | | | | SI-307-H007 | | | VT-02-063 | |
| | | | | | SI-307-H014 | | | VT-02-048 | |
| | | Three | 7 | 7 | SI-008-H005 | | | VT-05-128 | RR #4 |
| | | | | | SI-009-H001 | | | VT-05-129 | |
| | | | | | SI-009-H002 | | | VT-05-130 | RR #4 |
| | | | | | SI-009-H005 | | | VT-05-131 | RR #4 |
| | | | | | SI-307-H009 | | | VT-05-132 | Snubber Deleted |
| | | | | | SI-307-H010 | | | VT-05-133 | RR #4 |
| | | | | | SI-307-H011 | | | VT-05-134 | Snubber Deleted |
| | 103 Refuel | One | 6 | 6 | CH-142-H013 | | | 99-2409 | |
| | Suction A | | | | CH-142-H014 | | | 99-2411 | |
| | | | | | CH-142-H015 | | | 99-2412 | |
| | | | | | CH-142-H019 | | | 99-2413 | |
| | | | | | CH-142-H022 | | | 99-2414 | |
| | | | | | CH-424-H001 | | | 99-2415 | |
| | | Two | 6 | 6 | CH-142-H008 | | | VT-02-064 | |
| | | | | | CH-142-H020 | | | VT-02-065 | |
| | | | | | CH-142-H021 | | | VT-02-067 | |
| | | | | | CH-424-H002 | | | VT-02-066 | |
| | | | | | CH-424-H003 | | | VT-02-068 | |
| | | | | | CH-424-H006 | | | VT-03-697 | RR#4 |
| | | Three | 6 | 6 | CH-142-H001 | | | VT-05-135 | |
| | | | | | CH-142-H002 | | | VT-05-136 | |
| | | | | | CH-142-H003 | | | VT-05-137 | |
| | | | | | CH-142-H004 | | | VT-05-138 | |
| | | | | | CH-142-H005 | | | VT-05-139 | Snubber Deleted |
| | | | | | CH-142-H006 | | | VT-05-140 | |
| | 104 SI Suction B | One | 7 | 7 | SI-033-H001 | | | 99-2460 | support deleted |
| | | | | | SI-033-H002 | | | 99-2461 | support deleted |
| | | | | | SI-033-H003 | | | 99-2462 | |
| | | | | | SI-308-H005 | | | 99-2463 | |
| | | | | | SI-308-H008 | | | 99-2464 | |
| | | | | | SI-308-H010 | | | 99-2465 | support deleted |
| | | | | | SI-308-H011 | | | 99-2466 | |
| | | Two | 7 | 7 | SI-308-H001 | | | VT-02-284 | |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|-------------|-----|--------------|-----------|-----------------|
| | | | | | SI-308-H002 | | | VT-02-285 | |
| | | | | | SI-308-H003 | | | VT-02-297 | |
| | | | | | SI-308-H004 | | | VT-02-296 | |
| | | | | | SI-308-H006 | | | VT-02-286 | Deleted |
| | | | | | SI-308-H007 | | | VT-02-287 | Deleted |
| | | | | | SI-308-H015 | | | VT-02-288 | |
| | | Three | 6 | 6 | SI-031-H001 | | | VT-05-141 | RR #4 |
| | | | | | SI-031-H002 | | | VT-05-142 | RR #4 |
| | | | | | SI-031-H003 | | | VT-05-143 | Snubber Deleted |
| | | | | | SI-031-H004 | | | VT-05-144 | RR #4 |
| | | | | | SI-031-H005 | | | VT-05-145 | RR #4 |
| | | | | | SI-308-H009 | | | VT-05-146 | RR #4 |
| | 105 Refuel | One | 7 | 7 | CH-149-H009 | | | 00-2168 | |
| | Suction B | | | | CH-149-H010 | | | 00-2169 | |
| | | | | | CH-149-H012 | | | 00-2170 | |
| | | | | | CH-149-H013 | | | 00-2171 | |
| | | | | | CH-149-H014 | | | 00-2172 | |
| | | | | | | | | 00-2559 | |
| | | | | | CH-149-H021 | | | 00-2173 | |
| | | | | | CH-149-H028 | | | 00-2174 | |
| | | Two | 7 | 7 | CH-149-H001 | | | VT-02-400 | Expansion |
| | | | | | CH-149-H002 | | | VT-02-401 | Expansion |
| | | | | | CH-149-H003 | | | VT-02-402 | Expansion |
| | | | | | CH-149-H004 | | | VT-02-283 | Reject, |
| | | | | | | | | VT-02-387 | PSE replacement |
| | | | | | CH-149-H005 | | | VT-02-294 | |
| | | | | | CH-149-H006 | | | VT-02-293 | |
| | | | | | CH-149-H007 | | | VT-02-295 | |
| | | | | | CH-149-H008 | | | VT-02-398 | Expansion |
| | | | | | CH-149-H021 | | | VT-02-399 | Expansion |
| | | | | | CH-149-H025 | | | VT-02-292 | |
| | | | | | CH-149-H026 | | | VT-02-291 | |
| | | | | | CH-149-H027 | | | VT-02-290 | |
| | | Three | 8 | 8 | CH-149-H001 | | | VT-05-147 | |
| | | | | | CH-149-H002 | | | VT-05-148 | |
| | | | | | CH-149-H003 | | | VT-05-149 | |
| | | | | | CH-149-H004 | | | VT-05-150 | |
| | | | | | CH-149-H008 | | | VT-05-151 | |
| | | | | | CH-425-H001 | | | VT-05-152 | |
| | | | | | CH-425-H006 | | | VT-05-153 | RR #4 |
| | | | | | CH-425-H007 | | | VT-05-154 | Snubber Deleted |
| | | | | | CH-425-H008 | | | VT-05-155 | Snubber Deleted |
| | 106 HPSI A | One | 8 | 8 | SI-099-H001 | | | 00-2265 | |
| | | | | | SI-099-H002 | | | 00-2266 | |
| | | | | | SI-100-H001 | | | 00-2267 | |
| | | | | | SI-100-H002 | | | 00-2268 | |
| | | | | | SI-100-H003 | | | 00-2269 | |
| | | | | | SI-100-H005 | | | 00-2270 | |
| | | | | | SI-100-H034 | | | 00-2271 | |
| | | | | | SI-106-H001 | | | 00-2272 | |
| | | Two | 7 | 7 | SI-100-H009 | | | VT-03-667 | RR #4 |
| | | | | | SI-100-H010 | | | VT-03-668 | RR #4 |
| | | | | | SI-100-H011 | | | VT-03-669 | |
| | | | | | SI-105-H00B | | | VT-03-653 | RR #4 |

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INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|-------------|-----|--------------|-----------|---------|
| | | | | | SI-105-H00C | | | VT-03-652 | RR #4 |
| | | | | | SI-105-H00D | | | VT-03-651 | RR #4 |
| | | | | | SI-105-H00E | | | VT-03-650 | RR #4 |
| | | Three | 7 | 7 | SI-100-H004 | | | VT-05-571 | |
| | | | | | SI-100-H006 | | | VT-05-156 | RR #4 |
| | | | | | SI-100-H007 | | | VT-05-157 | RR #4 |
| | | | | | SI-100-H008 | | | VT-05-158 | RR #4 |
| | | | | | SI-100-H015 | | | VT-05-159 | RR #4 |
| | | | | | SI-100-H016 | | | VT-05-160 | RR #4 |
| | | | | | SI-100-H036 | | | VT-05-161 | RR #4 |
| | 107 HPSI B | One | 6 | 6 | SI-107-H003 | | | 00-2093 | |
| | | | | | SI-107-H011 | | | 00-2094 | |
| | | | | | SI-107-H012 | | | 00-2095 | |
| | | | | | SI-112-H00C | | | 00-2560 | |
| | | | | | SI-112-H00G | | | 00-2561 | |
| | | | | | SI-112-H00H | | | 00-2096 | |
| | | Two | 6 | 6 | SI-107-H005 | | | VT-03-588 | |
| | | | | | SI-107-H006 | | | VT-03-590 | RR #4 |
| | | | | | SI-107-H007 | | | VT-03-586 | RR #4 |
| | | | | | SI-107-H008 | | | VT-03-592 | RR #4 |
| | | | | | SI-107-H009 | | | VT-03-587 | RR #4 |
| | | | | | SI-107-H010 | | | VT-03-594 | RR #4 |
| | | Three | 6 | 6 | SI-107-H001 | | | VT-05-162 | RR #4 |
| | | | | | SI-107-H002 | | | VT-05-163 | RR #4 |
| | | | | | SI-107-H004 | | | VT-05-164 | RR #4 |
| | | | | | SI-107-H046 | | | VT-05-165 | RR #4 |
| | | | | | SI-107-H048 | | | VT-05-166 | RR #4 |
| | | | | | SI-112-H00D | | | VT-05-572 | RR #4 |
| | 108 HPSI | One | 11 | 11 | SI-100-H022 | | | 99-2416 | |
| | Discharge | | | | SI-100-H023 | | | 99-2417 | |
| | | | | | SI-100-H024 | | | 99-2418 | |
| | | | | | SI-100-H025 | | | 99-2419 | |
| | | | | | SI-100-H026 | | | 99-2420 | |
| | | | | | SI-100-H027 | | | 99-2421 | |
| | | | | | SI-100-H028 | | | 99-2422 | |
| | | | | | SI-100-H029 | | | 99-2423 | |
| | | | | | SI-100-H031 | | | 99-2424 | |
| | | | | | SI-100-H032 | | | 99-2425 | |
| | | | | | SI-100-H035 | | | 99-2426 | |
| | | Two | 11 | 11 | SI-100-H012 | | | VT-03-676 | RR #4 |
| | | | | | SI-100-H013 | | | VT-03-679 | RR #4 |
| | | | | | SI-100-H018 | | | VT-03-681 | RR #4 |
| | | | | | SI-100-H019 | | | VT-03-682 | RR #4 |
| | | | | | SI-100-H020 | | | VT-03-683 | RR #4 |
| | | | | | SI-100-H021 | | | VT-03-684 | RR #4 |
| | | | | | SI-118-H00A | | | VT-03-686 | RR #4 |
| | | | | | SI-118-H00B | | | VT-03-691 | RR #4 |
| | | | | | SI-118-H00D | | | VT-03-692 | RR #4 |
| | | | | | SI-118-H00R | | | VT-03-694 | RR #4 |
| | | | | | SI-118-H00S | | | VT-03-687 | RR #4 |
| | | Three | 11 | 11 | SI-118-H00D | | | VT-05-167 | |
| | | | | | SI-118-H00E | | | VT-05-168 | |
| | | | | | SI-118-H00F | | | VT-05-169 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|---------------|----------|---------|----------|-------------|-----|--------------|------------|----------------|
| | | | | | SI-118-H00G | | | VT-05-170 | |
| | | | | | SI-118-H00H | | | VT-05-171 | |
| | | | | | SI-118-H00J | | | VT-05-172 | |
| | | | | | SI-118-H00K | | | VT-05-173 | |
| | | | | | SI-118-H00L | | | VT-05-174 | |
| | | | | | SI-118-H00M | | | VT-05-175 | |
| | | | | | SI-118-H00N | | | VT-05-176 | |
| | | | | | SI-118-H00P | | | VT-05-177 | |
| | | | | | SI-118-H00Q | | | VT-05-178 | |
| | | | | | SI-100-H020 | | | VT-06-1706 | PSE |
| | 109 HPSI | One | 7 | 7 | SI-107-H013 | | | 00-2422 | |
| | Discharge | | | | SI-107-H014 | | | 00-2423 | |
| | | | | | SI-107-H015 | | | 00-2474 | |
| | | | | | SI-107-H016 | | | 00-2475 | |
| | | | | | SI-107-H021 | | | 00-2424 | |
| | | | | | SI-107-H047 | | | 00-2439 | |
| | | | | | SI-107-H050 | | | 00-2440 | support voided |
| | | Two | 7 | 7 | SI-107-H019 | | | VT-03-693 | |
| | | | | | SI-107-H020 | | | VT-03-695 | |
| | | | | | SI-107-H025 | | | VT-03-677 | |
| | | | | | SI-107-H026 | | | VT-03-689 | |
| | | | | | SI-107-H027 | | | VT-03-690 | |
| | | | | | SI-107-H028 | | | VT-03-688 | |
| | | | | | SI-107-H029 | | | VT-03-678 | |
| | | Three | 7 | 7 | SI-107-H030 | | | VT-05-180 | RR #4 |
| | | | | | SI-107-H031 | | | VT-05-179 | RR #4 |
| | | | | | SI-107-H032 | | | VT-05-181 | RR #4 |
| | | | | | SI-107-H034 | | | VT-05-182 | RR #4 |
| | | | | | SI-107-H035 | | | VT-05-183 | RR #4 |
| | | | | | SI-107-H036 | | | VT-05-184 | RR #4 |
| | | | | | SI-107-H037 | | | VT-05-185 | RR #4 |
| | 110 HPSI | One | 7 | 7 | SI-103-H00B | | | 00-2219 | |
| | Discharge | | | | SI-103-H00D | | | 00-2220 | |
| | | | | | SI-103-H00E | | | 00-2221 | |
| | | | | | SI-218-H001 | | | 00-2215 | |
| | | | | | SI-218-H002 | | | 00-2216 | |
| | | | | | SI-218-H003 | | | 00-2217 | |
| | | | | | SI-218-H004 | | | 00-2218 | |
| | | Two | 7 | 7 | SI-107-H039 | | | VT-03-637 | |
| | | | | | SI-107-H041 | | | VT-03-638 | |
| | | | | | SI-107-H042 | | | VT-03-639 | |
| | | | | | SI-107-H043 | | | VT-03-640 | |
| | | | | | SI-107-H044 | | | VT-03-641 | |
| | | | | | SI-107-H045 | | | VT-03-642 | RR #4 |
| | | | | | SI-107-H049 | | | VT-03-643 | RR #4 |
| | | Three | 6 | 6 | SI-103-H00A | | | VT-05-186 | RR #4 |
| | | | | | SI-107-H00A | | | VT-05-187 | RR #4 |
| | | | | | SI-110-H00A | | | VT-05-188 | RR #4 |
| | | | | | SI-218-H00A | | | VT-05-189 | RR #4 |
| | | | | | SI-218-H00B | | | VT-05-190 | RR #4 |
| | | | | | SI-236-H00B | | | VT-05-191 | RR #4 |
| | 111 HPSI | One | 3 | 3 | SI-100-H00A | | | 00-2228 | |
| | Discharge | | | | SI-100-H00B | | | 00-2227 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-------------------|----------|---------|----------|-------------|-----|--------------|------------|------------|
| | | | | | SI-100-H037 | | | 00-2229 | |
| | | Two | 4 | 4 | SI-236-H001 | | | VT-03-657 | RR #4 |
| | | | | | SI-236-H002 | | | VT-03-658 | RR #4 |
| | | | | | SI-236-H003 | | | VT-03-659 | RR #4 |
| | | | | | SI-236-H004 | | | VT-03-660 | RR #4 |
| | | Three | 3 | 3 | SI-100-H030 | | | VT-05-192 | RR #4 |
| | | | | | SI-100-H038 | | | VT-05-193 | RR #4 |
| | | | | | SI-100-H040 | | | VT-05-194 | RR #4 |
| | 112 HPSI | One | 3 | 3 | SI-176-H001 | | | 00-2155 | |
| | Discharge | | | | SI-176-H002 | | | 00-2443 | |
| | | | | | SI-176-H003 | | | 00-2156 | |
| | | Two | 3 | 3 | SI-100-H017 | | | VT-03-613 | RR #4 |
| | | | | | SI-102-H00A | | | VT-03-614 | RR #4 |
| | | | | | SI-102-H00B | | | VT-03-615 | RR #4 |
| | | Three | 4 | 4 | SI-101-H00A | | | VT-05-195 | RR #4 |
| | | | | | SI-101-H00B | | | VT-05-196 | RR #4 |
| | | | | | SI-101-H00C | | | VT-05-197 | RR #4 |
| | | | | | SI-101-H00D | | | VT-05-198 | RR #4 |
| | 113 HPSI | One | 5 | 5 | SI-107-H022 | | | 00-2204 | |
| | Discharge | | | | SI-107-H024 | | | 00-2205 | |
| | | | | | SI-157-H002 | | | 00-2206 | |
| | | | | | SI-157-H003 | | | 00-2207 | |
| | | | | | SI-157-H004 | | | 00-2208 | |
| | | Two | 4 | 4 | SI-108-H00A | | | VT-03-616 | RR #4 |
| | | | | | SI-109-H00A | | | VT-03-617 | RR #4 |
| | | | | | SI-157-H00A | | | VT-03-618 | RR #4 |
| | | | | | SI-176-H00A | | | VT-03-619 | RR #4 |
| | | Three | 4 | 4 | SI-157-H001 | | | VT-05-199 | RR #4 |
| | | | | | SI-157-H005 | | | VT-05-200 | RR #4 |
| | | | | | SI-157-H006 | | | VT-05-201 | RR #4 |
| | | | | | SI-157-H009 | | | VT-05-202 | RR #4 |
| | 114 HPSI Loop | Three | 2 | 2 | SI-218-H005 | | | VT-06-1035 | |
| | 1A & 1B | | | | SI-236-H005 | | | VT-06-1036 | RR #4 |
| | 115 HPSI Loop | Two | 3 | 3 | SI-157-H010 | | | VT-02-076 | Deleted |
| | 2A & 2B | | | | SI-157-H011 | | | VT-02-074 | |
| | | | | | SI-176-H004 | | | VT-02-073 | |
| | 116 HPSI A Pump | One | 4 | 4 | 116-1A | | | 00-2554 | |
| | | | | | 116-1B | | | 00-2554 | |
| | | | | | 116-1C | | | 00-2554 | |
| | | | | | 116-1D | | | 00-2554 | |
| | 117 HPSI Pump B | Two | 4 | 4 | 117-1A | | | VT-03-607 | |
| | | | | | 117-1B | | | VT-03-608 | |
| | | | | | 117-1C | | | VT-03-609 | |
| | | | | | 117-1D | | | VT-03-610 | |
| | 118 HPSI A Recirc | Three | 24 | 24 | SI-106-H002 | | | VT-05-203 | |
| | | | | | SI-106-H003 | | | VT-05-204 | |
| | | | | | SI-106-H004 | | | VT-05-205 | |
| | | | | | SI-106-H005 | | | VT-05-206 | |
| | | | | | SI-106-H006 | | | VT-05-207 | |
| | | | | | SI-106-H007 | | | VT-05-208 | |
| | | | | | SI-106-H008 | | | VT-05-209 | |
| | | | | | SI-106-H008 | | | VT-05-574 | PSE, RR #4 |
| | | | | | SI-106-H009 | | | VT-05-210 | |

APPENDIX A
INSERVICE INSPECTION SUMMARY REPORT

| ASME Item | Zone Comp/Sys | Insp Per | Amt Req | Amt Comp | Item ID | Vol | Reports Surf | Visual | Remarks |
|-----------|-------------------|----------|---------|----------|-------------|-----|--------------|-----------|---------|
| | | | | | SI-106-H010 | | | VT-05-211 | |
| | | | | | SI-106-H011 | | | VT-05-212 | |
| | | | | | SI-106-H012 | | | VT-05-213 | |
| | | | | | SI-106-H013 | | | VT-05-214 | RR #4 |
| | | | | | SI-106-H014 | | | VT-05-215 | RR #4 |
| | | | | | SI-106-H015 | | | VT-05-216 | |
| | | | | | SI-106-H016 | | | VT-05-217 | |
| | | | | | SI-106-H018 | | | VT-05-218 | |
| | | | | | SI-106-H019 | | | VT-05-219 | |
| | | | | | SI-106-H020 | | | VT-05-220 | |
| | | | | | SI-106-H021 | | | VT-05-221 | |
| | | | | | SI-106-H022 | | | VT-05-223 | |
| | | | | | SI-106-H023 | | | VT-05-224 | |
| | | | | | SI-106-H024 | | | VT-05-225 | |
| | | | | | SI-106-H025 | | | VT-05-226 | |
| | | | | | SI-106-H026 | | | VT-05-570 | |
| | 119 HPSI B Recirc | Three | 30 | 30 | SI-114-H001 | | | VT-05-227 | RR #4 |
| | | | | | SI-114-H002 | | | VT-05-228 | RR #4 |
| | | | | | SI-114-H003 | | | VT-05-229 | RR #4 |
| | | | | | SI-114-H004 | | | VT-05-230 | RR #4 |
| | | | | | SI-114-H005 | | | VT-05-231 | RR #4 |
| | | | | | SI-114-H006 | | | VT-05-232 | RR #4 |
| | | | | | SI-114-H007 | | | VT-05-233 | RR #4 |
| | | | | | SI-114-H008 | | | VT-05-234 | RR #4 |
| | | | | | SI-114-H009 | | | VT-05-235 | RR #4 |
| | | | | | SI-114-H010 | | | VT-05-236 | RR #4 |
| | | | | | SI-114-H012 | | | VT-05-237 | RR #4 |
| | | | | | SI-114-H013 | | | VT-05-238 | RR #4 |
| | | | | | SI-114-H014 | | | VT-05-239 | RR #4 |
| | | | | | SI-114-H015 | | | VT-05-241 | RR #4 |
| | | | | | SI-114-H016 | | | VT-05-242 | RR #4 |
| | | | | | SI-114-H017 | | | VT-05-243 | RR #4 |
| | | | | | SI-114-H018 | | | VT-05-244 | RR #4 |
| | | | | | SI-114-H021 | | | VT-05-245 | RR #4 |
| | | | | | SI-114-H022 | | | VT-05-246 | RR #4 |
| | | | | | SI-114-H025 | | | VT-05-247 | RR #4 |
| | | | | | SI-114-H026 | | | VT-05-248 | RR #4 |
| | | | | | SI-114-H027 | | | VT-05-249 | RR #4 |
| | | | | | SI-319-H00A | | | VT-05-250 | |
| | | | | | SI-319-H00B | | | VT-05-251 | |
| | | | | | SI-319-H00C | | | VT-05-252 | |
| | | | | | SI-319-H00D | | | VT-05-253 | |
| | | | | | SI-319-H00E | | | VT-05-254 | |
| | | | | | SI-319-H00F | | | VT-05-255 | |
| | | | | | SI-319-H00G | | | VT-05-256 | |
| | | | | | SI-319-H00H | | | VT-05-257 | |

APPENDIX B

INSERVICE INSPECTION CODE LIMITATIONS

APPENDIX B

UNIT 2 - REFUELING OUTAGE TWELVE

CODE LIMITATIONS

| <u>ASME Item</u> | <u>Zone / Component</u> | <u>ITEM ID</u> | <u>Report Number(s)</u> |
|------------------|-------------------------|----------------|-------------------------|
| B8.20 | 5 Pressurizer | 5-1 | UT-06-088 |

Limitation The Pressurizer skirt weld UT examination was limited to 85% coverage, due to geometrical configuration.

APPENDIX C

NIS-1 FORMS

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 85072*
2. PLANT - *PALO VERDE NUCLEAR GENERATING STATION*
ADDRESS - *5801 SOUTH WINTERSBURG ROAD; TONOPAH, ARIZONA 85354-7529*
3. UNIT NUMBER - 2
4. OWNERS' CERTIFICATE OF AUTHORIZATION - *NONE*
5. COMMERCIAL SERVICE DATE - *September 19, 1986*
6. COMPONENTS INSPECTED:

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

This report is a summary of the second interval third period examinations performed to date for Unit 2. The items examined, along with the examination report numbers, are listed in Appendix A.

APS

NIS-1 BACK

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 5-21-2005 TO 11-14-2006
8. INSPECTION INTERVAL FROM 3-18-1997 TO 3-17-2007
9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.

The items examined, along with the examination report numbers, are listed in Appendix A. The examinations are listed by ASME Category and Item Numbers with the corresponding examination report numbers.

10. ABSTRACT OF CONDITIONS NOTED

The one rejectable condition documented during this outage was corrected in accordance with PVNGS work control practices and ASME Section XI. One support was damaged. Section 2 Examination Summary of the summary report addresses this condition.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

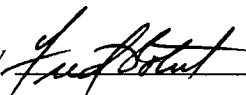
The rejectable portion of the support was replaced in accordance with ASME Section XI and APS Work Control procedures.

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

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

DATE 2/6/07 SIGNED: ARIZONA PUBLIC SERVICE COMPANY

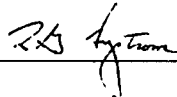
BY



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 HSB CT OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 5-21-05 TO 2-6-07, 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



COMMISSIONS

NB 9685 "A.N.I.C" A2 264

NAT'L BOARD, STATE, PROVINCE

DATE

2-6-07

APPENDIX D

NIS-2 FORMS

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PSIEV134
2. Item Description: Check Valve
3. N-5 Data Package Number: 2RC01-3B
4. W.O. Number: 2721742
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disc replacement
8. ☒ NA ISI Flaw
NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Disc replacement due to unable to rework a satisfactory sealing area.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial SRB Date 10/20/2006 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial SRB Date 10/20/2006 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial SRB Date 10/20/2006 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial SRB Date 10/20/2006 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|------------------|--------------|------------|-----------|--------------|
| Check valve disc | APN 45021077 | RS212325-3 | <u>NA</u> | MR 1154947 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner Scott R Baize 10/20/2006 Printed Name: SCOTT R BAIZE
Signature Date

19. ISI R. INDAP PER TELECON 10/20/2006 Printed Name: DBH - Log Entry 904
Signature SCOTT BAIZE Date

ANII R. C. HOGSTROM 10-20-06 Printed Name: R. C. 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 11/06/06
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 2721742
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah, Az 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 31975 | 1015 | 2PSIEV134 | 1978 | Repaired | Yes |
| Disc - removed | Borg Warner | NA | NA | Code 2G68 | 1978 | Replaced | Yes |
| Disc - installed | Borg Warner | 212325-3 | NA | NA | 1991 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replaced the disc. { note remarks on Page 2 }

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 2721742 was utilized to replace the disc with a new one.

Pre-Pressure Test Review: ISI NA ANII NA

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 11/8/06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-20-06 to 11-8-06, 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 Az 264
National Board, State, Province, and Endorsements

Date 11-8-06

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES**

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by BN/IP INTERNATIONAL INC. PUMP DIV. LOS ANGELES OPERATIONS, 7300 F. VERNON AVE. VA
(name and address of NPT Certificate Holder)
2. Manufactured for ARIZONA PUBLIC SERVICE 4 MILES SOUTH OF WINTERSBURG, WINTERSBURG ARIZONA 85343
(name and address of Purchaser)
3. Location of installation ARIZONA PUBLIC SERVICE 4 MILES SOUTH OF WINTERSBURG, WINTERSBURG ARIZONA 85343
(name and address)
4. Type: 76864 REV.B SA-182 F316 75,000 PSI N/A 1991
(drawing no.) (mat'l. spec. no.) (nominal strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1974 WINTER 1975 1 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: BN/IP JOB NO. 901-L-2120 PART NAME- DISK AND STUD ASSEMBLY

HYDROSTATIC TESTING NOT PERFORMED. IDENTIFICATION IS PER NCA-6230 IN LIEU OF NAMEPLATE.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| (1) <u>212325-1</u> | <u>N/A</u> |
| (2) <u>212325-2</u> | <u>N/A</u> |
| (3) <u>212325-3</u> | <u>N/A</u> |
| (4) | |
| (5) | |
| (6) | |
| (7) | |
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| (9) | |
| (10) | |
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| (23) | |
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| (25) | |

| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| (26) | |
| (27) | |
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| (30) | |
| (31) | |
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| (47) | |
| (48) | |
| (49) | |
| (50) | |

10. Design pressure 3803-2500 psi. Temp. 100-650 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. 212345-1 through 212345-2

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that THE (these) DISK AND STUD ASSEMBLY
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1131 Expires [Signature]Date 28 MARCH 91 Name EN/TP INTERNATIONAL, INC. Signed JUNE 10, 1993
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF 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
CALIFORNIA and employed by ABERWIGHT MUTUAL INS. CO. FACTORY MUTUAL SYSTEMof WILMINGTON, MASS. have inspected these items described in this Data Report on MAR. 29, 1991, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or
loss of any kind arising from or connected with this inspection.Date 3/29/91 Signed [Signature] Commissions 1275 CA.
(Authorized Inspector) (Plat. Bd. Qual. endorsements and state or prov. and no.)P. O. No. 100203772
QUALITY DOCUMENTS
PAGE 249 of 873

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JSIBUV0667
2. Item Description: HPSI "B" TO THE RWT ISOLATION VALVE
3. N-5 Data Package Number: 2SI09-3
4. W.O. Number: 2726382
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: REMOVE/REPLACE BONNET TO YOKE TACK WELDS
8. ☐ ISI Flaw PA NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
NO FAILURE OF THE ASME BOUNDARY // REINSTALLATION OF TACK WELD

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial LEO Date 8/16/06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial LEO Date 8/16/06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial LEO Date 8/16/06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial LEO Date 8/16/06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------|----------|------------|----------|--------------|
| NONE USED | | | | |
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18. Planner G. Osmundson 8/16/06 Printed Name: G. OSMUNDSON
Signature Date
19. ISI R.P. Indap 8/25/06 Printed Name: R.P. INDAP Log Entry RP
Signature Date
20. ANII R.G. Holstrom 8-25-06 Printed 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: 08/16/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2726382

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: 2SI09-3

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 2JSIBUV0667 | BORG WARNER | 57646 | N/A | N/A | 1980 | Repaired | YES |
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7. Description of Work: REMOVE/REPLACE BONNET TO YOKE TACK WELDS

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order 2726382 to remove and replace bonnet to yoke tack welds

Pre-Pressure Test Review: ISI NA ANII NA

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 DBH ENR Date 10-31-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-25-06 to 10-31-06, 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.

RA Hyman Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-31-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JSIAUV0669
- 2.. Item Description: 2 INCH GLOBE VALV (BORG WARNER)
3. N-5 Data Package Number: 2SI09-3 4. W.O. Number: 2726383
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: REMOVE/REINSTALL BONNET TO YOKE TACK WELD
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
NO FAILURE OF THE ASME BOUNDARY // REINSTALLATION OF TACK WELD

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Geo Date 8/17/06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Geo Date 8/17/06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Geo Date 8/17/06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial Geo Date 8/17/06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|----------------|------------|----------|--------------|
| NA | TACK WELD ONLY | | | |
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18. Planner G. Osmundson 8/17/06 Printed Name: G. OSMUNDSON
Signature Date
19. ISI R.P. Indap 8/25/06 Printed Name: R.P. INDAP Log Entry RPD
Signature Date
20. ANII R.L. Huestrom 8-25-06 Printed Name: R.L. HUESTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al.

Date: 10/31/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2726383

3. Work Performed by: Arizona Public Service Co.

Type of Code Stamp None

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

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Safety Injection

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | 28312 | N/A | 2JSIBHV699 | 1978 | Repaired | YES |
| | | | | | | | |
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7. Description of Work: Remove/replace bonnet to yoke tack weld.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-2 ☐

Other ☐ Pressure

Test Temperature °F

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

FORM NIS-2 (Back)

9. Remarks: WO 2726383 // REMOVE/REPLACE BONNET TO YOKE TACK WELD

Pre-Pressured Test WO Review – ISI _____

ANII _____

N/A

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A

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

Signed: [Signature] ISI ENGINEER Date: 10-31-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 8-25-06 to 11-1-06, 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" AZ264
National Board, State, Province, and Endorsements

Date: 11-1-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2MEWAE01
2. Item Description: ESSENTIAL COOLING WATER HEAT EXCHANGER
3. N-5 Data Package Number: 2EW01-1
4. W.O. Number: 2733192
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Perform base material weld repairs on the Channel Heads and Channel Head Covers of the Essential Cooling Water (EW) Heat exchanger, as identified by Engineering.

8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:

9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Engineering inspection determined weld repairs required prior to re-coating. There was no failure of the pressure boundary.

Routine weld repairs due to coating spalling and resulting corrosion.

R. P. Indap
10/19/06

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial HL Date 10/19/06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial HL Date 10/19/06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial HL Date 10/19/06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial HL Date 10/19/06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------|----------|------------|----------|--------------|
| 2MEWAE01 | N/A | N/A | N/A | N/A |
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18. Planner Herbert L. Green 10/19/06 Printed Name: HERBERT L. GREEN
Signature Date
19. ISI R. P. Indap 10/19/06 Printed Name: R. P. INDAP Log Entry R.P.
Signature Date
20. ANII R. G. Hoastrom 10-19-06 Printed Name: R. G. HOASTROM
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 10/30/06
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 2733192
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 Spray Pond & 2MEWAE01

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| SP/EW | Struther Wells Corp | 17606329141 | 14532 | 1MEWAE01 | 1979 | Repaired | Yes |
| | | | | | | | |
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7. Description of Work See remarks on sheet 2.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-2 ☐
Other ☐ Pressure 44 psi Test Temp. 63 °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 2733192 performed base material weld repairs on the Channel Heads and Channel Head Covers of the "A" Train Essential Cooling Water (EW) Heat exchanger, as identified by Engineering.

Pre-Pressured Test WO Review - ISI

R. P. Adams

10/23/06

ANII

RS / J. L. Adams

10-23-06

Certificate of Compliance

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date:

N/A

Signed:

J. B. L. - ENR

Owner or Owner's Designee, Title

Date: 10-30-06

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-19-06 to 10-30-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS / J. L. Adams

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date:

10-30-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 2MCHNF02A
2. Item Description: Pall Trinty Seal Injection Filter
3. N-5 Data Package Number: 2CH14-3
4. W.O. Number: 2776989
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the cover assembly and bolting assemblies on filter housing.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME pressure boundary. The cover and bolt head joint has worn and needs replacement.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 5-26-05 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial DMG Date 5-26-05 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 5-26-05 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DMG Date 5-26-05 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------------|--------------|--------------------|--------------------|--------------|
| Cover assembly | APN 00091023 | <u>NPT 32219-1</u> | | MR 982287 |
| Bolts | APN 00050258 | | <u>26521 MK 12</u> | MR 982287 |
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18. Planner David Goodlet 5-26-05 Printed Name: David Goodlet
Signature Date
19. ISI R.P. Indap 6-7-05 Printed Name: R.P. INDAP Log Entry PPR
Signature Date
20. ANII R.G. Hogstrom 6-7-05 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al.

Date: 01/13/06

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2776989

3. Work Performed by: Arizona Public Service Co.

Type of Code Stamp None

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

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical and Volume Control System

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|-----------------------|---------------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Seal Injection Filter | Pall Trinity Micro Corp. | 35941 | 19466 | 2MCHNF02A | 1978 | Repaired | Yes |
| Cover Assembly | Energy Steel & Supply Co. | NPT32219-1 | N/A | 2MCHNF02A | 2005 | Replacement | Yes |
| Bolts | N/A | N/A | N/A | 2MCHNF02A | 2006 | Replacement | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: The cover and bolt head joint has worn and needs replacement.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-2 ☐

Other ☐ Pressure _____ psi Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: W.O. 2776989

Pre-Pressure Test Work Order Review: ISI: N/A

ANII: N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

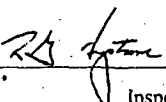
Certificate of Authorization No. N/A Expiration Date: N/A

Signed:  ISI ENGINEER Date: 1-13-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 6-7-05 to 1-13-06, 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.


Inspectors Signature

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

Date: 1-13-06

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

- Manufactured and certified by Energy Steel & Supply Co., 2715 Paldan Drive, Auburn Hills, MI 48326
(name and address of NPT Certificate Holder)
- Manufactured for Arizona Public Service Co., Palo Verde Nuclear Generating Plant, Phoenix, AZ 85072-2034
(name and address of purchaser)
- Location of installation Palo Verde Nuclear Generating Plant, 5801 S. Wintersburg Road, Tonopah, AZ 85354
(name and address)
- Type 1540 Rev. 0 SA240 Tp 304 75 N/A 2005
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
- ASME Code, Section III, Division 1: 1974 Winter 1975 2 N/A
(edition) (addenda date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) _____ Revision _____ Date _____
(no.)
- Remarks: Cover Assembly; Ref.: Drawing 5EHD10602-132BC24 Rev. C; Item 3 (P/N 5HD10650)
PO No. 500291028; APS Part #: 00091023
- Nom. thickness (in.) 1.75 Min. design thickness (in.) 1.6875 Dia. ID (ft & in.) N/A Length overall (ft & in.) 10.672" d
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| (1) NPT32219-1 | N/A |
| (2) | |
| (3) | |
| (4) | |
| (5) | |
| (6) | |
| (7) | |
| (8) | |
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| (16) | |
| (17) | |
| (18) | |
| (19) | |
| (20) | |
| (21) | |
| (22) | |
| (23) | |

| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| (26) | |
| (27) | |
| (28) | |
| (29) | |
| (30) | |
| (31) | |
| (32) | |
| (33) | |
| (34) | |
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| (43) | |
| (44) | |
| (45) | |
| (46) | |
| (47) | |
| (48) | |
| (49) | |
| (50) | |

10. Design pressure 2735 psi Temp. 550 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

This form (F00040) may be obtained from the Order Dept. ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. NPT32219-1 through NPT32219-1

CERTIFICATION OF DESIGN

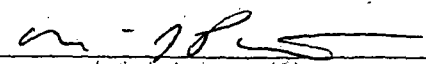
Design specifications certified by N/A P.E. State Reg. no.
(when applicable)

Design report* certified by N/A P.E. State Reg. no.
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover Assembly for Seal Injection Filter
conforms to the rules of construction of the ASME Code, Section III, Division 1.

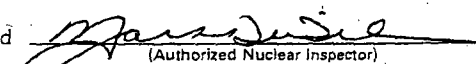
NPT Certificate of Authorization No. N-2928 Expires June 21, 2008

Date 12/29/05 Name Energy Steel & Supply Co. Signed 
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF 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 MI and employed by HSBCT
of Hartford, CT have inspected these items described in this Data Report on Dec. 29, 2005, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
or loss of any kind arising from or connected with this inspection.

Date Dec. 29, 2005 Signed  Commissions NTG10
(Authorized Nuclear Inspector) [Nat'l. Bd. (incl. endorsements) and state or prov. and no.]

Page 1 of 1

18. Planner *Herbert L. Green* 10/10/06 Printed Name: HERBERT L. GREEN
Signature Date
19. ISI *R.P. Indap* 10/10/06 Printed Name: R.P. INDAP Log Entry *RP*
Signature Date
20. ANII *R.G. Hogstrom* 10-12-06 Printed 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 11/01/06
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 2788386
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah, Az 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, S73 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PZR Heater | HUICO | 1656 | NA | 2MRCEA10 | 1977 | Replacement | Yes |
| PZR Heater | HUICO | 1647 | NA | 2MRCEB10 | 1977 | Replacement | Yes |
| PZR Heater | HUICO | 1642 | NA | 2MRCEB11 | 1977 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work { * note remarks on Page 2 }

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 2788386 was utilized to perform the replacement of 3 pressurizer heaters

Pre-Pressure Test Review: ISI NA ANII NA

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 DBN- ENR Date 11-1-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-12-06 to 11-3-06, 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 Inspection Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements
Date 11-3-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID: 2JRCEPSV0200
2. Item Description: Presurizer safety relief valve
3. N-5 Data Package Number: 2RC03-2 4. W.O. Number: 2804257
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the Presurizer Safety Valve with a reconditioned spare
8. ☐ ISI Flaw NDE Method of Flaw Detection: N/A
Report Number: N/A
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No failure of ASME III pressure boundary. Spare valve is like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BY-14537

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 9-30-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial Dmg Date 9-30-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 9-30-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial Dmg Date 9-30-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--------------|----------------|------------|----------|--------------|
| 2JRCEPSV0200 | APN # 45003560 | BY-14537 | N/A | MR 1098075 |
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18. Planner David M. Goadler 9-30-06 Printed Name: DAVID M. GOADLER
 Signature Date
19. ISI R.P. Indap 10-3-06 Printed Name: R.P. INDAP Log Entry RRP
 Signature Date
- ANII R.G. Holstrom 10-4-06 Printed 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

Owner: Arizona Public Service Company, et. al.

Date: 09/30/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804257

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV | DRESSER | BY-14537 | N/A | 2JRCEPSV0200 | 1991 | Replacement | YES |
| PSV | DRESSER | BS-08590 | N/A | 2JRCEPSV0200 | 1979 | Replaced | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Valve to be replaced with a reconditioned and tested spare.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

N-416-2 ☐ Other Pressure 2130 psi

Test Temperature 521 °F

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

FORM NIS-2 (Back)

9. Remarks: WM 2804257 to replace 2JRCEPSV0200 with a reconditioned and tested spare.

Pre-Pressured Test WO Review – ISI DMJ- 11-6-06

ANII dy 11-6-06

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: DMJ- EVER Date: 11-9-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-4-06 to 11-9-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS [Signature]
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 11-9-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JRCEPSV0201

2. Item Description: Presurizer safety relief valve

3. N-5 Data Package Number: 2RC03-2

4. W.O. Number: 2804258

5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda

6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda

7. Work Description: Replace the Presurizer Safety Valve with a reconditioned spare

8. ☐ ISI Flaw

N/A

NDE Method of Flaw Detection: N/A

Report Number: N/A

9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

No failure of ASME III pressure boundary. Spare valve is like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BQ-07679

10. Repair/Replacement Work Organization: Arizona Public Service

11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Summer Addenda

12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda

13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required:

☐ YES

☒ NO

Initial Dmg Date 9-30-06

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

15. ASME Section XI Pressure Test Required:

☒ YES

☐ NO

Initial Dmg Date 9-30-06

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

Initial Dmg Date 9-30-06

16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial Dmg Date 9-30-06

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

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--------------|----------------|------------|----------|--------------|
| 2JRCEPSV0201 | APN # 45003560 | BQ-07679 | N/A | MR 1098075 |
| | | | | |
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| | | | | |
| | | | | |

18. Planner

Signature

Date

Printed Name:

DAVID M. GOODLET

19. ISI

Signature

Date

Printed Name:

R. P. INDAP

Log Entry

RPI

ANII

Signature

Date

Printed Name:

R. G. HAGSTROM

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

As Required by the Provisions of the ASME Code Section XI

Owner: Arizona Public Service Company, et. al.

Date: 09/30/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804258

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV | DRESSER | BQ-07679 | N/A | 2JRCEPSV0201 | 1978 | Replacement | YES |
| PSV | DRESSER | BS-08566 | N/A | 2JRCEPSV0201 | 1978 | Replaced | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Valve to be replaced with a reconditioned and tested spare.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

N-416-2 ☐ Other Pressure 22130 psi

Test Temperature 521 °F

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

FORM NIS-2 (Back)

9 Remarks: WM 2804258 to replace 2JRCEPSV0201 with a reconditioned and tested spare.

Pre-Pressured Test WO Review – ISI

01311- 11-6-06

ANII

11-6-06

Certificate of Compliance

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date:

N/A

Signed:

DBH

ENCL

Date: 11-9-06

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-4-06 to 11-9-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS [Signature]

Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264

National Board, State, Province, and Endorsements

Date:

11-9-06

Page 1 of 1Page 1 of 1

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

As Required by the Provisions of the ASME Code Section XI

Owner: Arizona Public Service Company, et. al.

Date: 09/30/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804259

3. Work Performed By: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV | DRESSER | BQ-07678 | N/A | 2JRCEPSV0202 | 1978 | Replacement | YES |
| PSV | DRESSER | BS-08592 | N/A | 2JRCEPSV0202 | 1979 | Replaced | YES |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work: Valve to be replaced with a reconditioned and tested spare.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

N-416-2 ☐ Other Pressure 32130 psi

Test Temperature 521 °F

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

FORM NIS-2 (Back)

9. Remarks: WM 2804259 to replace 2JRCEPSV0202 with a reconditioned and tested spare.

Pre-Pressured Test WO Review - ISI

7B11-11-6-06
by 11-6-06

ANII

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: 7B11-11-6-06 ENGR Date: 11-9-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-4-06 to 11-9-06, 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 Lytton

Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264

National Board, State, Province, and Endorsements

Date: 11-9-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JRCEPSV0203
2. Item Description: Presurizer safety relief valve
3. N-5 Data Package Number: 2RC03-2
4. W.O. Number: 2804260
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the Presurizer Safety Valve with a reconditioned spare
8. ☐ ISI Flaw P/A NDE Method of Flaw Detection: N/A
Report Number: N/A
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No failure of ASME III pressure boundary. Spare valve is like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BY-14538
10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO
Initial Dmg Date 9-30-06 If required, include a step in the W.O. to perform Preservice Inspection
15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
Initial Dmg Date 9-30-06 If required, include a step in the W.O. for ISI & ANII Inspection.
- Initial Dmg Date 9-30-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.
- Initial Dmg Date 9-30-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--------------|----------------|------------|----------|--------------|
| 2JRCEPSV0203 | APN # 45003560 | BY-14538 | N/A | MR 1098075 |
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18. Planner David M. Goodlet 9-30-06 Printed Name: DAVID M. GOODLET
Signature Date
19. ISI R.P. Indap 10/3/06 Printed Name: R.P. INDAP Log Entry RPR
Signature Date
- ANII R.G. Hocestron 10-4-06 Printed Name: R.G. HOCESTRON
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

Owner: Arizona Public Service Company, et. al.

Date: 09/30/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804260

3. Work Performed By: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| PSV | DRESSER | BY-14538 | N/A | 2JRCEPSV0203 | 1991 | Replacement | YES |
| PSV | DRESSER | BS-08568 | N/A | 2JRCEPSV0203 | 1978 | Replaced | YES |
| | | | | | | | |
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7. Description of Work: Valve to be replaced with a reconditioned and tested spare.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

N-416-2 ☐ Other Pressure 22130 psi

Test Temperature 52 °F

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

FORM NIS-2 (Back)

9 Remarks: WM 2804260 to replace 2JRCEPSV0203 with a reconditioned and tested spare.

Pre-Pressured Test WO Review - ISI

DBL 11-6-06

ANII

dy 11-6-06

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: DBL ANII Date: 11-9-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-9-06 to 11-9-06, 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.

DBL

Inspector's Signature

Commissions: NB 9685 "N" "T" AZ264

• National Board, State, Province, and Endorsements

Date: 11-9-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2MRCEP01C
2. Item Description: REACTOR COOLANT PUMP
3. N-5 Data Package Number: 2RC02-4 4. W.O. Number: 2804290
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace mechanical seals
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

No failure of ASME III presure boundary. Mechanical seal replacement as a part of normal maintenance.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial KA Date 11-06-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial KA Date 11-06-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial KA Date 11-06-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial KA Date 11-06-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-------------------------------------|----------|-----------------------|------------|--------------|
| 3 rd Stage Seal Retainer | 1663509 | Q95-1876 <u>SN-11</u> | <u>N/A</u> | WO 2922322 |
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18. Planner Ken Amara 11-06-06 Signature Date Printed Name: KEN AMARA L

19. ISI Wiley Ahlstrom 11-06-06 Signature Date Printed Name: WILEY AHLSTROM Log Entry WPA

ANII RL Hagstrom 11-7-06 Signature Date Printed Name: RL HAGSTROM

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

As Required by the Provisions of the ASME Code Section XI

Owner: Arizona Public Service Company, et. al.

Date: 11/06/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804290

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC - Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Winter 1975 Addenda, NA Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|-------------------------------------|------------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Reactor coolant pump P01C | Combustion Engineering | 1110-2A | N/A | 2MRCEP01C | 1985 | Repaired | YES |
| 3 rd stage seal retainer | sulzer | Q95-1876 S/N 11 | N/A | 2MRCEP01C | 2006 | Replacement | NO |
| | | | | | | | |
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7. Description of Work: Mechanical Seal Replacement

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

Other ☐ Pressure 2210 psi

Test Temperature 521 °F

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

and the number of sheets is recorded at the to of this form.

FORM NIS-2 (Back)

9. Remarks: WO# 2804290 For 2MRCP01C. Mechaical seal replacement as part of normal maintenance. Repalcement seal was rebuilt under WO 2922322

PRE PRESSURE TEST: DSH- 11-8-06 11-8-06

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A _____

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

Signed: DSH- ENGR Date: 11-9-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 11-7-06 to 11-9-06, 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.

DSH
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 11-9-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2MCLEU58
2. Item Description: Penetration #58
3. N-5 Data Package Number: 26204-1 per 11-5-06 4. W.O. Number: 2804334
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace missing stud (1ea) / nuts (2ea) on inner penetration flange
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No failure of ASME pressure boundary. Bolt and associated nuts were misplaced during the 2R13 outage.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1974 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date 11-5-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial N/A Date 11-5-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MMK Date 11-5-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial MMK Date 11-5-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-------------------|---------------|------------|----------------------|--------------|
| 1" Stud (Qty 1ea) | APN #43110020 | N/A | <u>B979</u> | MR #1161036 |
| 1" Nuts (Qty 2ea) | APN #49991287 | N/A | <u>RBQ & RBT</u> | MR #1161036 |
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18. Planner Matt Sullivan 11-5-06 Printed Name: Martin J. Sullivan
Signature Date
19. ISI Doug Hansen 11-6-06 Printed Name: D.B.H. Log Entry 11-6-06
Signature Date
APIC NOT Available
20. ANII Doug Hansen 11-5-06 Printed Name: _____
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: 11/05/06

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804334

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CL

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Studs (1ea) | N/A | N/A | N/A | 2MCLEU58 | 2006 | Replacement | NO |
| Nuts (2ea) | N/A | N/A | N/A | 2MCLEU58 | 2006 | Replacement | NO |
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7. Description of Work: Replace stud and nuts in the inner flange of Pen #58 which were misplaced during 2R13

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ — Other Pressure psi — Test Temperature °F

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

FORM NIS-2 (Back)

9. Remarks: WO #2804334 (2MCLEU58) No failure of ASME pressure boundary. Bolting was misplaced during the 2R13 refueling outage and requires replacement.

Pre-Pressured Test WO Review – ISI _____

ANII _____

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A

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

Signed: DBZ - ENGR Date: 11-6-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 11-5-06 to 11-6-06, 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.

RK J. J. J.
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 11-6-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID APPCEV137
- 2.. Item Description: Conical flange for Refuel pool drain
3. N-5 Data Package Number: 2PC04-1
4. W.O. Number: 2804352
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install conical flange for fuel pool flood up.
8. ☐ ISI Flaw NDE Method of Flaw Detection: N/A
Report Number: N/A
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME III pressure boundary. This conical flange assembly is installed only during refuel outages when fuel pool is going to be filled with water.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial SRB Date 09/30/2006 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial SRB Date 09/30/2006 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial SRB Date 09/30/2006 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial SRB Date 09/30/2006 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-------------------------|----------|------------|----------|--------------|
| Conical flange assembly | | N/A | N/A | WO 00260377 |
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18. Planner [Signature] 09/30/2006 Printed Name: SCOTT R BRAIZE

19. ISI [Signature] 9-30-06 Printed Name: R-L BROWNING Log Entry 248

20. ANII [Signature] 9-30-06 Printed 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: 09/29/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804352

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: PC: Pool Cooling

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| conical flange assembly | N/A | N/A | N/A | APPCEV137 | 1990 | Replacement | NO |
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7. Description of Work: Install conical flange prior to UGS pit flood up.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2804352 on APPCEV137 installs this conical flange assemble prior to refuel pool flood up. This conical flange assembly was fabricated under WO# 260377 in 1990.


Pre-Pressured Test WO Review - ISI NOT DONE - REVIEWED AT TIME OF NIS-2 SIGN
ANII NOT DONE - REVIEWED AT TIME OF NIS-2 SIGN

Certificate of Compliance

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

Type Code Symbol Stamp N/A

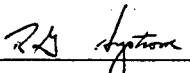
Certificate of Authorization No. N/A Expiration Date: N/A

Signed:  Date: 10/14/06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 9-30-06 to 10-14-06, 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" "T" AZ264
Inspectors Signature National Board, State, Province, and Endorsements

Date: 10-14-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID APPCEV138
2. Item Description: Conical flange for upper guide structure pit drain.
3. N-5 Data Package Number: 2PC04-1
4. W.O. Number: 2804352
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install conical flange for upper guide structure pit flood up.
8. ☐ ISI Flaw NDE Method of Flaw Detection: N/A
Report Number: N/A
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME III pressure boundary. This conical flange assembly is installed only during refuel outages when UGS pit is going to be filled with water.
10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO
Initial SRB Date 09/30/2006 If required, include a step in the W.O. to perform Preservice Inspection
15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
Initial SRB Date 09/30/2006 If required, include a step in the W.O. for ISI & ANII Inspection.
- Initial SRB Date 09/30/2006 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.
- Initial SRB Date 09/30/2006 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-------------------------|----------|------------|----------|--------------|
| Conical flange assembly | | N/A | N/A | WO 00260377 |
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18. Planner Scott R Baize 09/30/2006 Printed Name: SCOTT R BAIZE
Signature Date
19. ISI R.L. Browning 9-30-06 Printed Name: R.L. Browning Log Entry RUB
Signature Date
20. ANII R.G. Hogstrom 9-30-06 Printed 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: 09/29/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804352

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: PC: Pool Cooling

5. (a) Applicable Construction Code ASME Section III-NC, Class 2 1974 Edition, Winter 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| conical flange assembly | N/A | N/A | N/A | APPCEV138 | 1990 | Replacement | NO |
| | | | | | | | |
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7. Description of Work: Install conical flange prior to UGS pit flood up.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

N-416-2 ☐ Other Pressure psi

Test Temperature °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2804352 on APPCEV138 installs this conical flange assemble prior to UGS pit flood up. This conical flange assembly was fabricated under WO# 260377 in 1990.

Pre-Pressured Test WO Review – ISI DONE AT NIS-2 SIGN OFF


ANII DONE AT NIS-2 SIGN OFF

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed:  Date: 10/14/06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 9-30-06 to 10-14-06, 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.



Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-14-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 2

1. Component ID 2JSGEPSV0559
2. Item Description: Main Steam Safety Valve; Dresser 6" 3707RAX-RT-25; 1315 psig
3. N-5 Data Package Number: 2SG02-1A
4. W.O. Number: 2804353
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replacement of main steam safety valve with a reconditioned and tested spare.
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon treviteesting.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 9-25-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial Dmg Date 9-25-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 9-25-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial Dmg Date 9-25-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--------------|--------------|------------|----------|----------------------|
| 2JSGEPSV0559 | APN 45003638 | BS-08624 | N/A | MR <u>2801149200</u> |
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18. Planner David Goodlet 9-25-06 Printed Name: David Goodlet
Signature Date

19. ISI R.P. Indap 9/28/06 Printed Name: R.P. INDAP Log Entry R.P.
Signature Date

20. ANII R.G. Hogstrom 9-30-06 Printed Name: R.G. HOGSTROM
Signature Date

Page 2 of 2

73DP-97Z-17 Rev 9

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: 11/06/06

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804353

3. Work Performed by: Arizona Public Service Co.

Type of Code Stamp None

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

Authorization No. N/A

Expiration Date N/A

4. Identification of System: SG - Main Steam

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Summer 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Safety Valve | Dresser | BS-08613 | N/A | 2JSGEPSV559 | 1980 | Replaced | Yes |
| Safety Valve | Dresser | BS-08624 | N/A | 2JSGEPSV559 | 1981 | Replacement | Yes |
| Safety Valve | Dresser | BS-08574 | N/A | 2JSGEPSV573 | 1978 | Replaced | Yes |
| Safety Valve | Dresser | BS-08623 | N/A | 2JSGEPSV573 | 1981 | Replacement | Yes |
| | | | | | | | |
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7. Description of Work: Replaced three main steam safety valves with reconditioned & tested spares.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-2 ☐

Other ☐ Pressure 2153 psi Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2804353 will be used to replace Main Steam Safety Valve 2JSGEPSV0559 & 573 with reconditioned and tested spares during 2R13.

Pre-Pressured Test WO Review - ISI

0724- 11-6-06

ANII

11-6-06

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: RLB ENB Date: 11-10-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 9-30-06 to 11-10-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RLB
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 11-10-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 2

1. Component ID 2PSPAL098
2. Item Description: jacket water heat exchanger inlet elbow
3. N-5 Data Package Number: 2SP01-2
4. W.O. Number: 2804562
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Weld repair of the flanged area due to corrosion.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Periodic weld build up of corroded area of the elbow due to coating unbonding. After weld build up, fresh coating will be applied.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III CI 3, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III CI 3, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial ML Date 10-19-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial ML Date 10-19-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial ML Date 10-19-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial ML Date 10-19-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------|----------|------------|----------|--------------|
| 2PSPAL098 | N/A | 2SP098S003 | | WO 2804562 |
| 2PSPAL098 | N/A | 2SP098S004 | | WO 2804562 |
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18. Planner Martin Sullivan 10-19-06 Printed Name: Martin Sullivan
Signature Date
19. ISI R.P. Indap 10/19/06 Printed Name: R.P. INDAP Log Entry RPI
Signature Date
20. ANII R.G. Hoagstrom 10-19-06 Printed Name: R.G. Hoagstrom
Signature Date

ASME SECTION XI - REPAIR / REPLACEMENT

Page 2 of 2

1. Component ID 2MDGAE05
2. Item Description: Jacket water cooler
3. N-5 Data Package Number: 2DG01-2
4. W.O. Number: 2804562
5. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: REPAIR BASE METAL WITH WELD BUILD UP
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Repair of base material caused by coating degradation thus causing subsequent corrosion. Weld repair to be cover by coatings.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1976 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial MJC Date 10-19-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial MJC Date 10-19-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MJC Date 10-19-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial MJC Date 10-19-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------|------------------|------------|----------|--------------|
| 2MDGAE05 | 4-500-19-515-001 | 9D702 | N/A | WO 2804562 |
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18. Planner Martin J. Sullivan 10-19-06
Signature Date Printed Name: Martin J. Sullivan
19. ISI R.P. Indap 10/20/06
Signature Date Printed Name: R.P. INDAP Log Entry RPR
20. ANII R.G. Hogstrom 10-20-06
Signature Date Printed 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 10/30/06
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 2804562
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 Spray Pond & 2PSPAL098

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Inlet Elbow | Pullman Power | 2SP098S003 | NA | 2PSPAL098 | 1979 | Repaired | Yes |
| Inlet Elbow | Pullman Power | 2SP098S004 | NA | 2PSPAL098 | 1979 | Repaired | Yes |
| JW End Cover | American Standard | 9D702 | 33117 | 2MDGAE05 | 1979 | Repaired | Yes |
| | | | | | | | |
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7. Description of Work See remarks on sheet 2.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-2 ☐
Other ☐ Pressure 41 psi Test Temp. 63/64 °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: Weld repair of the corroded area, to be protected by coating w.o. 2804562

Pre-Pressured Test WO Review – ISI

RP [Signature] 10/25/06

ANII

N A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: [Signature] ENR Date: 10-30-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-19-06 to 10-30-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspectors Signature

Commissions: **NB 9685 "N" "T" AZ264**
National Board, State, Province, and Endorsements

Date: 10-30-06

Page 1 of 1

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: 10/04/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804563

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: 2PSPBL032 S-014 and S-015

5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Summer 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------------------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Jacket Water Inlet Elbow | Pullman Power | 2SP032S015 | N/A | 2PSPBL032 S-015 | 1979 | Repaired | NO |
| Jacket Water Inlet Pipe assembly | Pullman Power | 2SP032S014 | N/A | 2PSPBL032 S-014 | 1979 | Repaired | NO |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Weld repair of the corroded area, to be protected by coating WO 2804563

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☒

N-416-2 ☐ Other Pressure 43 psi

Test Temperature 200 °F

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

FORM NIS-2 (Back)

9. Remarks: Weld repair of the corroded area, to be protected by coating WO 2804563

Pre-Pressured Test WO Review – ISI _____

ANII _____

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A

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

Signed: _____ 151 ENK Date: 10-14-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-3-06 to 10-14-06, 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.

Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-14-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 2MDGAE01A
- 2.. Item Description: DG Intercooler
3. N-5 Data Package Number: 2DG01-2
4. W.O. Number: 2804564
5. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Fastener replacement
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Replacing the top plate fasteners on a as needed basis due to minor corrosion of the studs. Fasteners are not being replaced due to failure. The replacement is a routine maintenance to address minor corrosion. RPE 10/19/06

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III CI 3, 1974 Edition 1976 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III CI 3, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial MJS Date 10-19-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial MJS Date 10-19-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MJS Date 10-19-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial MJS Date 10-19-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---|---------------------|--------------------------|---------------|-------------------|
| 2MDGAE01A | APN 43110010 | 7186 | 230113 | MR 1154444 |
| <u>2MDGAE01B</u> <u>studs RPE 10/25/06</u> | <u>APN 43110010</u> | <u>7187 RPE 10/25/06</u> | <u>230113</u> | <u>MR 1154444</u> |
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18. Planner MJS 10-19-06
Signature Date

Printed Name: Martin J. Sullivan

19. ISI R.P. Indap 10/19/06
Signature Date

Printed Name: R.P. INDAP Log Entry RPE

20. ANII RL Houston 10-19-06
Signature Date

Printed Name: RL Houston

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al.

Date: 10/19/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804564

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: 2MDGAE01A&B

5. (a) Applicable Construction Code ASME Section III-ND, Class 3—1974 Edition, Summer 1976 Addenda, --- Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| intercoolers | Cooper Energy | 7187 | N/A | 2MDGAE01B | 1979 | Repaired | YES |
| Cover studs | N/A | N/A | N/A | Heat # 230113 | 2006 | Replacement | NO |
| intercoolers | Cooper Energy | 7186 | N/A | 2MDGAE01A | 1979 | Repaired | YES |
| | | | | | | | |
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7. Description of Work: Replacement of cover fasteners due to minor corrosion. Not replaced due to failure. 2804564

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: Replacement of cover fasteners due to minor corrosion. Not replaced due to failure. W.O. # 2804564

Pre-Pressured Test WO Review – ISI N/A
ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R Pondap, ISI Engineer Date: 10-25-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-19-06 to 10-26-06, 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 Pondap
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-26-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2MDGAE04
- 2.. Item Description: DG LUBE OIL COOLER
3. N-5 Data Package Number: 2DG01-2
4. W.O. Number: 2804566
5. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: REPAIR BASE METAL WITH WELD BUILD UP
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
WELD BUILD UP FO THE BASE MATERIAL DUE TO EXCEEDING MINIMUM WALL THICKNESS, REPAIRED AREAS TO BE PROTECTED WITH COATINGS.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1976 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial MM Date 10-19-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial MM Date 10-19-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MM Date 10-14-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial MM Date 10-19-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--|-------------------------|---------------------|------------|----------------|
| 2MDGAE04 BAFFLE PLATE (INLET/OUTLET SPOOL) | 4-305-19-815-008 | 9-20016-02-3 | N/A | WO 2804566 |
| <u>2MDGAE04 Reversing COOLER</u> | <u>4-500-19-815-001</u> | <u>9-20016-02-3</u> | <u>N/A</u> | <u>2804566</u> |
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18. Planner Martin Sullivan 10-19-06 Printed Name: Martin Sullivan
Signature Date

19. ISI R.P. Indap 10/19/06 Printed Name: R.P. INDAP Log Entry RPI
Signature Date

20. ANII R.G. Hogstrom 10-19-06 Printed 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: 10/19/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2804566

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: 2DG

5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Summer 1976 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|------------------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| DG "A" lube oil cooler | American Standard | 9-20016-02-3 | 33118 | 2MDGAE04 | 1979 | Repaired | YES |
| | | | | | | | |
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7. Description of Work: Weld repair of the base metal on the inlet /outlet baffle. w.o. 2804566

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

N-416-2 ☒ Other Pressure 40 psi

Test Temperature 64 °F

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

FORM NIS-2 (Back)

9. Remarks: Weld repair of the base metal on the inlet/outlet baffle. w.o. 2804566

Pre-Pressured Test WO Review – ISI

RPTndap 10/25/06

ANII

NA

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: 7/13/11 EPH Date: 10-30-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-19-06 to 10-30-06, 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.

25
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-30-06

Page 1 of 3

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: 10-16-2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2817045

3. Work Performed by: Westinghouse

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC: Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1989 Edition, no Addenda, no Code Case/

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Steam Generator | Ansaldo | 212 | N/A | 2MRCEE01A | 2002 | Repaired | YES |
| Tube Plugs | Westinghouse | N/A | N/A | N/A | 2006 | Replacement | NO |
| | | | | | | | |
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7. Description of Work: Plug Steam Generator#1 Hot Leg Tubes IAW DFWO# 2817040.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: WO# 2817045 for Steam Generator#1 (2MRCEE01A) Hot Leg, had mechanical plugs installed.

Pre-Pressured Test WO Review – ISI N/A
ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R. P. Indap, ISI Engineer Date: 10-26-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-17-06 to 10-26-06, 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

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 10-26-06

1. Component ID: 2MRCEE01A-SN212
2. Item Description: Steam Generator #1
3. N-5 Data Package Number: n/a
4. W.O. Number: 2817045
5. Original Construction Code Edition: 1989 Edition & no Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda

DFWO 2817040 and DIWO 2817045

Steam Generator (2MRCEE01A) Hot Leg, had mechanical plugs (Westinghouse part # 76546/APN 00097721) obtained via MR -1146860 installed in the following locations:

| Row | Col |
|-----|-----|
| 58 | 7 |
| 34 | 83 |
| 36 | 85 |
| 43 | 92 |
| 47 | 92 |
| 44 | 93 |
| 48 | 93 |
| 46 | 97 |
| 45 | 98 |
| 47 | 110 |
| 44 | 111 |
| 43 | 112 |
| 45 | 112 |
| 45 | 118 |

These plugs were from heat NX3171HK.

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 3

1. Component ID 2MRCEE01A-SN212
2. Item Description: Steam Generator #1
3. N-5 Data Package Number: n/a
4. W.O. Number: 2817047
5. Original Construction Code Edition: 1989 Edition & no Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install Westinghouse mechanical plugs in Steam Generator 2MRCEE01A "Cold Leg" tubes per disposition & evaluation from Engineering DFWO# 2817040.
8. ☐ ISI Flaw NDE Method of Flaw Detection: Eddy Current Testing
Report Number: _____
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Evaluation documented in Eng DFWO# 2817040. Note, these are the new Steam Generators installed in 2003.

10. Repair/Replacement Work Organization: Westinghouse
11. Replacement Items Construction or reconciled Code/Edition: 1989 Edition & no Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 10-16-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Dmg Date 10-16-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 10-16-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial Dmg Date 10-16-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|------------|--------------|-------------------|-------------------|--------------|
| Tube Plugs | APN 00097721 | See Attached List | See Attached List | MR 1146860 |
| | | | | |
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| | | | | |
| | | | | |

18. Planner David M. Goodley 10-16-06
Signature Date Printed Name: DAVID M. GOODLEY
19. ISI R. P. Indap 10/16/06
Signature Date Printed Name: R. P. INDAP Log Entry RPD
20. ANII R. G. Hogstrom 10-17-06
Signature Date Printed 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: 10-16-2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2817047

3. Work Performed by: Westinghouse

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC: Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1989 Edition, no Addenda, no Code Case,

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Steam Generator | Ansaldo | 212 | N/A | 2MRCEE01A | 2002 | Repaired | YES |
| Tube Plugs | Westinghouse | N/A | N/A | N/A | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work: Plug Steam Generator#1 Cold Leg Tubes IAW DFWO# 2817040.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: WO# 2817047 for Steam Generator#1 (2MRCEE01A) Cold Leg, had mechanical plugs installed.

Pre-Pressured Test WO Review – ISI N/A

ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: DP Indap, ISI Engineer Date: 10-26-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB - CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-17-06 to 10-26-06, 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.

DP Indap
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-26-06

1. Component ID: 2MRCEE01A-SN212
2. Item Description: Steam Generator #1
3. N-5 Data Package Number: n/a
4. W.O. Number: 2817047
5. Original Construction Code Edition: 1989 Edition & no Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda

DFWO 2817040 and DIWO 2817047

Steam Generator (2MRCEE01A) Cold Leg, had mechanical plugs (Westinghouse part # 76546/APN 00097721) obtained via MR -1146860 installed in the following locations:

| Row | Col |
|-----|-----|
| 58 | 7 |
| 34 | 83 |
| 36 | 85 |
| 43 | 92 |
| 47 | 92 |
| 44 | 93 |
| 48 | 93 |
| 46 | 97 |
| 45 | 98 |
| 47 | 110 |
| 44 | 111 |
| 43 | 112 |
| 45 | 112 |
| 45 | 118 |

These plugs were from heat NX3171HK.

Page 1 of 3

Page 1 of 3

- Initial DMG Date 10-16-2006 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

[illegible]

18. Planner *[Signature]* 10-16-06 Printed Name: DAVID M. GOODLET
Signature Date

19. ISI *[Signature]* 10/16/06 Printed Name: R.P. INDAP Log Entry *[Signature]*
Signature Date

20. ANII *[Signature]* 10-17-06 Printed 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: 10-16-2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2817050

3. Work Performed by: Westinghouse

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC: Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1989 Edition, no Addenda, no Code Case/

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Steam Generator | Ansaldo | 211 | N/A | 2MRCEE01B | 2002 | Repaired | YES |
| Tube Plugs | Westinghouse | N/A | N/A | N/A | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Plug Steam Generator#2 Hot Leg Tubes IAW DFWO# 2817041.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐

Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2817050 for Steam Generator#2 (2MRCEE01B) Hot Leg, had mechanical plugs installed.

Pre-Pressured Test WO Review – ISI N/A

ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: [Signature] ISI Engineer Date: 10-26-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-17-06 to 10-26-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-26-06

1. Component ID: 2MRCEE01B-SN211
2. Item Description: Steam Generator #2
3. N-5 Data Package Number: n/a
4. W.O. Number: 2817050
5. Original Construction Code Edition: 1989 Edition & no Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addend

DFWO 2817048 and DIWO 2817050

Steam Generator (2MRCEE01B) Hot Leg, had mechanical plugs (Westinghouse part # 76546/APN 00097721) obtained via MR -1146860 installed in the following locations:

| Row | Col |
|-----|-----|
| 39 | 86 |
| 48 | 89 |
| 41 | 90 |
| 43 | 90 |
| 42 | 91 |
| 45 | 104 |
| 47 | 104 |
| 46 | 107 |
| 45 | 108 |
| 43 | 112 |
| 41 | 114 |
| 40 | 115 |
| 45 | 116 |
| 39 | 118 |
| 165 | 124 |
| 167 | 124 |
| 166 | 125 |

These plugs were from heat NX3171HK.

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 3

1. Component ID 2MRCEE01B-SN211
2. Item Description: Steam Generator #2
3. N-5 Data Package Number: n/a
4. W.O. Number: 2817052
5. Original Construction Code Edition: 1989 Edition & no Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install Westinghouse mechanical plugs in Steam Generator 2MRCEE01B "Cold Leg" tubes per disposition & evaluation from Engineering DFWO# 2817041.
8. ☐ ISI Flaw
NDE Method of Flaw Detection: Eddy Current Testing
Report Number: _____
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Evaluation documented in Eng DFWO# 2817041. Note, these are the new Steam Generators installed in 2003.

10. Repair/Replacement Work Organization: Westinghouse
11. Replacement Items Construction or reconciled Code/Edition: 1989 Edition & no Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 10-16-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Dmg Date 10-16-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 10-16-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial Dmg Date 10-16-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|------------|--------------|-------------------|-------------------|--------------|
| Tube Plugs | APN 00097721 | See Attached List | See Attached List | MR 1146860 |
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| | | | | |
| | | | | |

18. Planner David M. Goodlet 10-16-06 Printed Name: DAVID M. GOODLET
Signature Date
19. ISI R. P. Indap 10-16-06 Printed Name: R. P. INDAP Log Entry RPI
Signature Date
20. ANII R. C. Hogstrom 10-17-06 Printed Name: R. C. 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: 10-16-2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2817052

3. Work Performed by: Westinghouse

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC: Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1989 Edition, no Addenda, no Code Case,

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Steam Generator | Ansaldo | 211 | N/A | 2MRCEE01B | 2002 | Repaired | YES |
| Tube/Plugs | Westinghouse | N/A | N/A | N/A | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Plug Steam Generator#2 Cold Leg Tubes LAW DFWO# 2817041.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: WO# 2817052 for Steam Generator#2 (2MRCEE01B) Cold Leg, had mechanical plugs installed.

Pre-Pressured Test WO Review – ISI N/A

ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R. P. Jordan, ISI engineer Date: 10-26-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-17-06 to 10-26-06, 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. Jordan
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-26-06

1. Component ID: 2MRCEE01B-SN211
2. Item Description: Steam Generator #2
3. N-5 Data Package Number: n/a
4. W.O. Number: 2817052
5. Original Construction Code Edition: 1989 Edition & no Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda

DFWO 2817048 and DIWO 2817052

Steam Generator (2MRCEE01B) Cold Leg, had mechanical plugs (Westinghouse part # 76546/APN 00097721) obtained via MR -1146860 installed in the following locations:

| Row | Col |
|-----|-----|
| 39 | 86 |
| 48 | 89 |
| 41 | 90 |
| 43 | 90 |
| 42 | 91 |
| 45 | 104 |
| 47 | 104 |
| 46 | 107 |
| 45 | 108 |
| 43 | 112 |
| 41 | 114 |
| 40 | 115 |
| 45 | 116 |
| 39 | 118 |
| 165 | 124 |
| 167 | 124 |
| 166 | 125 |

These plugs were from heat NX3171HK.

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: 10/25/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2823685

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Fuel Pool Cooling - "PC"

5. (a) Applicable Construction Code ASME Section III NF, Class 3 1974 Edition, Summer 1976 Addenda, 1644-5 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 1/4 KIP Snubber | Pacific Sceintific | 38139 | N/A | 2PC006H016 | 1980 | Replaced | YES |
| 1/4 KIP Snubber | Pacific Sceintific | 18721 | N/A | 2PC006H016 | 1981 | Replacement | YES |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work: Replaced the Snubber due to failed snubber test

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐

Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO#2823685 removed snubber S/N 38139 for testing and failed. The snubber was replaced with a new snubber S/N 18721.

Pre-Pressured Test WO Review – ISI _____

ANII _____

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A

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

Signed: RLB ISI ENR Date: 10/28/06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-25-06 to 10-28-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RLB
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-28-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JCHELV0110P
2. Item Description: 2" Fisher Control Valve ; model 667-DBAQ
3. N-5 Data Package Number: 2CH15-1
4. W.O. Number: 2825281
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disassemble valve for replacement of cage. Rework internals as necessary and then reassemble, repack & AOV test.
8. ☐ ISI Flaw
NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME pressure boundary. The plug/stem assembly may be replaced if visual inspection shows wear.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 7-20-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Dmg Date 7-20-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 7-20-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial Dmg Date 7-20-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------------------|--------------|------------|----------|--------------|
| plug / stem assembly | APN 45160188 | A15733-3 | 725141 | MR 1122138 |
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18. Planner David Goodlet 7-20-06 Printed Name: David Goodlet
Signature Date

19. ISI R.P. Indap 7/25/06 Printed Name: R.P. Indap Log Entry R.P.
Signature Date

20. ANII R.G. Hoagstrom 7-26-06 Printed Name: R.G. Hoagstrom
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: 7/20/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2825281

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical and Volumn Control System

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Summer 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Fisher | 6549793 | N/A | 2JCHEL V0110P | 1979 | Repaired | YES |
| Plug/Stem assy | Fisher | A15733-3 | n/a | 2JCHEL V0110P | 2006 | Replacement | YES |
| | | | | | | | |
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7. Description of Work: Disassemble valve for replacement of cage. Replaced plug/stem assembly due to wear.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure psi

Test Temperature °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2825281 on valve 2JCHELV0110P disassembled valve for cage replacement. The plug/stem assy was replaced due to wear.

Pre-Pressured Test WO Review – ISI

ANII

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R.L. Browning RLB ISI ENG Date: 7-28-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 7-26-05 to 7-28-05, 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

Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 7-28-06

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

**As Required by the Provisions of the ASME Code, Section III
Not to exceed One Day's Production**

500291398 IT #1

Pg. 1 of 1

E505507

Manufactured and certified by

FISHER CONTROLS INT'L LLC, 205 SOUTH CENTER STREET, MARSHALLTOWN, IA 50158
(name and address of NPT Certificate Holder)

2. Manufactured for

Pinnacle West Capital Corp., PO Box 53940, Phoenix, AZ 85072
(name and address of purchaser)

3. Location of installation

Palo Verde Nuclear Station, 5801 South Wintersburg Rd, Tonopah, AZ 85354
(name and address)

4. Type

| | | | | |
|---------------------------------|------------------------------------|------------------------------|--------------|----------------------|
| 14A3722 Rev. C (drawing no.) | SA479 S31603 (mat'l. spec. no.) | 70 KSI (tensile strength) | N/A (CRN) | 2006 (year built) |
|---------------------------------|------------------------------------|------------------------------|--------------|----------------------|

5. ASME Code, Section III

| | | | |
|-------------------|-------------------------------|--------------|------------------------|
| 1974 (edition) | Summer 1975 (addenda date) | 2 (class) | N/A (Code Case no.) |
|-------------------|-------------------------------|--------------|------------------------|

6. Fabricated in accordance with Const. Spec. (Div. 2 only)

| | | | | |
|--------------|----------|-----|------|-----|
| N/A (no.) | Revision | N/A | Date | N/A |
|--------------|----------|-----|------|-----|

7. Remarks:

Design: ASME BPVC Sec III, 1974 Edition, Summer 1975 Addenda, Class 2
Other: ASME BPVC Sec III, 1989 Edition, No Addenda, Class 2

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| | Part or Appurtenance Serial Number | Heat Number |
|------|---------------------------------------|-------------|
| (1) | AI5733-1 | 725141 |
| | AI5733-2 | 725141 |
| | AI5733-3 | 725141 |
| (4) | AI5733-4 | 725141 |
| (5) | | |
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| | Part or Appurtenance Serial Number | Heat Number |
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| (50) | | |

10. Design Pressure 2485 psi. Temp. 550 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

FORM N-2 (back)

Mfr. Serial No. A15733-1 thru -4

CERTIFICATION OF DESIGN

Design specifications certified by T. L. Kettles P.E. State NY Reg. no. PE029729
(when applicable)Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Plug/Stem
conforms to the rules of construction of the ASME Code, Section III.NPT Certificate of Authorization No. 1930 Expires 10-27-2007Date 2/7/06 Name FISHER CONTROLS INT'L LLC Signed Deirda Ward
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP 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 Iowa
and employed by Hartford Steam Boiler of CTof Hartford, CT have inspected these items described in this Data Report on 2-8-06 and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has
been authorized for stamping on the date shown above.By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report.
Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected
with this inspection.Date 2-8-06 Signed Ken Coker Commissions 802 IA
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

2-36-6.doc

| PVNGS QUALITY IDENTIFICATION TAG | | | |
|----------------------------------|-------------------------|-------------------------------------|-------------|
| APN#45160188 | | S/L:NA/ / U/M:EA | |
| PO#500291398.01.001 | | MR# | |
| P/N#14A3722X122 | | SERIAL/HEAT# BATCH/LOT# A15733-3 | |
| PUR CAT P02/ | ASME CODE SECIII CL2 | STG-LV-B | QRC#0223-06 |
| INSPECTED BY: <u>[Signature]</u> | | DATE: 02/10/06 | |

ASME SECTION XI - REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 2JCHELV0110Q
2. Item Description: 2" Fisher Control Valve ; model 667-DBAQ
3. N-5 Data Package Number: 2CH15-1 4. W.O. Number: 2825287
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disassemble valve for inspection of internals and then reassemble, repack & AOV test.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME pressure boundary. The plug/stem assembly may be replaced if visual inspection shows wear.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III CI 2, 1974 Edition Summer 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III CI 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO
Initial Platy Date 3-9-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO
Initial Platy Date 3-9-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Platy Date 3-9-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial Platy Date 3-9-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------------------|--------------|------------|----------|--------------|
| plug / stem assembly | APN 45160188 | A15733-2 | 725141 | MR 1074707 |
| | | | | |
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18. Planner David Goodlet 3-9-2006 Printed Name: David Goodlet
Signature Date
19. ISI R.P. Indap 3-9-06 Printed Name: R.P. INDAP Log Entry RPR
Signature Date
20. ANII R.G. Hogstrom 3-9-06 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

Owner: Arizona Public Service Company, et. al.

Date: 3/9/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2825287

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical and Volumn Control System

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Summer 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Fisher | 6549794 | N/A | 2JCHEL V0110Q | 1979 | Repaired | YES |
| Plug/Stem assy | Fisher | A15733-2 | n/a | 2JCHEL V0110Q | 2006 | Replacement | YES |
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7. Description of Work: Disassemble valve and inspect internals due to low flow rate.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure psi

Test Temperature °F

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

FORM NIS-2 (Back)

Remarks: WO# 2825287 on valve 2JCHELV0110Q disassembled and rework valve. The plug/stem assy was replaced due to wear.

Pre-Pressured Test WO Review - ISI

N/A

ANII

N/A

Certificate of Compliance

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date:

N/A

Signed:

[Signature] SR- ISI ENGINEER

Date:

3/13/06

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-9-06 to 3-14-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date:

3-14-06

NUCLEAR PARTS AND APPURTENANCES*
As Required by the Provisions of the ASME Code, Section III
Not to exceed One Day's Production

WD 2825287

500291398 It #1

Pg. 1 of 1

0.19 507

1. Manufactured and certified by FISHER CONTROLS INT'L LLC, 205 SOUTH CENTER STREET, MARSHALLTOWN, IA. 50158
(name and address of NPT Certificate Holder)

2. Manufactured for Pinnacle West Capital Corp., PO Box 53940, Phoenix, AZ 85072
(name and address of purchaser)

3. Location of installation Palo Verde Nuclear Station, 5801 South Wintersburg Rd, Tonopah, AZ 85354
(name and address)

1. Type 14A3722 Rev. C SA479 S31603 70 KSI N/A 2006
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

1. ASME Code, Section III: 1974 Summer 1975 2 N/A
(edition) (addenda date) (class) (Code Case no.)

1. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)

Remarks: Design: ASME BPVC Sec III, 1974 Edition, Summer 1975 Addenda, Class 2
Other: ASME BPVC Sec III, 1989 Edition, No Addenda, Class 2

Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A

When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| | Part or Appurtenance Serial Number | Heat Number |
|------|---------------------------------------|-------------|
| (1) | AJ5733-1 | 725141 |
| (2) | AJ5733-2 | 725141 |
| (3) | AJ5733-3 | 725141 |
| (4) | AJ5733-4 | 725141 |
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| | Part or Appurtenance Serial Number | Heat Number |
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10. Design Pressure 2485 psi. Temp. 550 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

Information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 2 and 3 on this Data Report is used on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CERTIFICATION OF DESIGN

Design specifications certified by T. L. Kettles P.E. State NY Reg. no. PE029729
 (when applicable)

Design report* certified by N/A P.E. State N/A Reg. no. N/A
 (when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Plug/Stem
 conform(s) to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1930 Expires 10-27-2007

Date 2/7/06 Name FISHER CONTROLS INT'L LLC Signed Kinda Ward
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP 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 Iowa
 and employed by Hartford Steam Boiler of CT
 of Hartford, CT have inspected these items described in this Data Report on 2-8-06 and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has
 been authorized for stamping on the date shown above.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report.
 Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected
 with this inspection.

Date 2-8-06 Signed Kent Cochran Commissions 822 IA
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JSIBUV0674
2. Item Description: A TRAIN CONTAINMENT RECIRC SUMP TO SI TRAIN 'A' CONTAINMENT ISOLATION VALVE
3. N-5 Data Package Number: 2SI01-7
4. W.O. Number: 2830286
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda J.D 10-24-06
7. Work Description: Replace the gasket retainer bolts per EDC 2005-00667 2006-00992 J.D 10-24-06
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

THE BOLTS ARE BEING REPLACED AS A PRECAUTIONARY MEASURE
WITH MORE SCC RESISTANT MATERIAL (410 VS 17-4PH)

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1974 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date _____ If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

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

Initial J.D Date 4-24-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial J.D Date 4-24-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------------------|--------------|------------|----------|--------------|
| Gasket retainer bolts | APN 00090043 | N/A | 0105 | MR 1090865 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner [Signature] 4-24-06 Printed Name: James I. Davis
Signature Date

19. ISI [Signature] 4-26-06 Printed Name: WILEY AHLSTROM Log Entry WON
Signature Date

20. ANII [Signature] 4-26-06 Printed Name: RL 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: 10/24/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2830286

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Safety Injection

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|-----------------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Posi -Seal | 143384A | N/A | 2JSIAUV0674 | 1979 | Repaired | YES |
| Gasket retainer bolts | N/A | N/A | N/A | 2JSIAUV0674 | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Replace the gasket retainer bolting as required per ENG-DM13 #2760330 & EDC 2006-00992

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: Work Order 2830286 replaced the original 410 Stainless steel gasket retainer bolts with more corrosion resistant SA564, Gr 630 bolts per EDC 2006-00992 and ENG-DM13 #2760330.

Pre-Pressured Test WO Review – ISI _____


ANII _____

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A _____

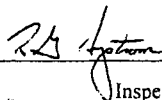
Certificate of Authorization No. _____ N/A _____ Expiration Date: _____ N/A _____

Signed:  ISI ENGINEER Date: 10-25-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-26-06 to 11-6-06, 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.


Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 11-6-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JSIBUV0676
2. Item Description: B TRAIN CONTAINMENT RECIRC SUMP TO SI TRAIN 'B' CONTAINMENT ISOLATION VALVE
3. N-5 Data Package Number: 2SI01-7
4. W.O. Number: 2830288
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the gasket retainer bolts per EDC 2005-00668
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

THE BOLTS ARE BEING REPLACED AS A PRECAUTIONARY MEASURE WITH MORE SCC RESISTANT MATERIAL (410 VS 17-4PH)

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1974 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date _____ If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

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

Initial J.D Date 4-24-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial J.D Date 4-24-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------------------|--------------|------------|----------|--------------|
| Gasket retainer bolts | APN 00090043 | N/A | BHH | MR 1090866 |
| | | | | |
| | | | | |
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| | | | | |
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18. Planner [Signature] Date 4-24-06 Printed Name: James I. Davis

19. ISI [Signature] Date 4-26-06 Printed Name: WILEY AHLSTROM Log Entry WOT

20. ANII [Signature] Date 4-26-06 Printed Name: R.G. HOUSTROM

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: 0-11-06

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2830288

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Safety Injection

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|-----------------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Posi -Seal | 143384B | N/A | 2JSIBUV0676 | 1979 | Repaired | YES |
| Gasket retainer bolts | N/A | N/A | N/A | 2JSIBUV0676 | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Replace the gasket retainer bolting as required per EDC 2005-00668

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: Work Order 2830288 replaced the original 410 Stainless steel gasket retainer bolts with more corrosion resistant SA564, Gr 630 bolts per EDC 2005-00668 and DMWO 2760330.

Pre-Pressured Test WO Review – ISI N/A

ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R. P. Indap, ISI Engineer Date: 10/11/06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-26-06 to 10-12-06, 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
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-12-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PCHNV184
- 2.. Item Description: Borg Warner 3" - 300# Swing Check Valve, model 77680-2
3. N-5 Data Package Number: 2CH07-2 4. W.O. Number: 2837014
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disassemble check valve for ASME Section XI inspection program.
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME III pressure boundary. Replacing disc due to wear in seating surface.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda ^{3 to 10-20-06}
12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda ^{3 to 10-20-06}
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 10-17-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Dmg Date 10-17-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 10-17-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial Dmg Date 10-17-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|--------------|------------|----------|--------------|
| Valve | N/A | 60420 | N/A | N/A |
| Disc | APN 45020877 | 199225-2 | M7988 | MR 1152931 |
| | | | | |
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18. Planner David M. Goodlet 10-17-06 Printed Name: DAVID M. GOODLET
Signature Date
19. ISI R.P. Lindap 10/17/06 Printed Name: R.P. LINDAP Log Entry RPZ
Signature Date
20. ANII R.G. Hogstrom 10-17-06 Printed 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: 10/20/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2837014

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical and Volumn Control

5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Winter 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 60420 | N/A | 2PCHNV184 | 1980 | Repaired | YES |
| Disc | Borg Warner | 199225-2 | N/A | 2PCHNV184 | 2006 | Replacement | NO |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work: Disassemble the check valve for inspection IAW the ASME Section XI inspection program.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure psi

Test Temperature °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2837014 on check valve 2PCHNV184. The valve was disassembled for inspection under the ASME Section XI program. The disc is being replaced due to wear on the seating surface.

Pre-Pressured Test WO Review – ISI _____

ANII _____

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A

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

Signed: PP Melap, ISF Engineer Date: 10/20/2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-17-06 to 10-20-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS Lythorn
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-20-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PCHNV647
- 2.. Item Description: Borg Warner 3" - 330# Swing Check Valve, model 77690-1
3. N-5 Data Package Number: 2CH07-1 4. W.O. Number: 2837016
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disassemble check valve for ASME Section XI inspection program.
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME III pressure boundary. Replacing bonnet studs due to small amount of rust and nuts so fasteners are all new.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement-Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 10-25-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial DMG Date 10-25-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 10-25-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial DMG Date 10-25-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------------------|--------------|------------|---------------|--------------|
| Valve | N/A | 49726 | N/A | N/A |
| Bonnet Studs 10 TOTAL | APN 43160057 | N/A | HX4(6) HX2(4) | MR 1156924 |
| Bonnet Nuts 20 TOTAL | APN 43120135 | N/A | N/A | MR 1156924 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner David M. Goodlet 10-25-06 Printed Name: DAVID M. GOODLET
Signature Date
19. ISI R.P. Indap 10-26-06 Printed Name: R.P. INDAP Log Entry RPD
Signature Date
20. ANII R.G. Hogstrom 10-26-06 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/30/06
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 2837016
Address Work Order Number

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

4. Identification of System CH

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | 49726 | NA | 2PCHNV647 | 1979 | Repaired | Yes |
| Bonnet Studs | Cardinal | NA | NA | HX4 & HX2 | 2006 | Replacement | No |
| Bonnet Nuts | NA | NA | NA | 2PCHNV647 | 2006 | Replacement | No |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

7. Description of Work {note remarks on Page 2}

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 2837016 was utilized to disassemble the check valve for the ASME Section XI
program. The bonnet studs and nuts were replaced during the reassembly

Pre-Pressure Test Review: ISI _____ NA _____ ANII _____ NA _____

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 DJW - ENR Date 10-30-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ARIZONA and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-26-06 to 10-31-06, 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.

DJW from Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-31-06

Page 1 of 1

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 10/30/06
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 2837032
Address Work Order Number

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

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | 53113 | NA | 2PSIEV154 | 1980 | Repaired | Yes |
| Disc - removed | Borg-Warner | NA | NA | HT # 1P88 | 1980 | REPLACED | Yes |
| Disc - installed | Borg-Warner | 199225-4 | NA | 2PSIEV154 | 1988 | Replacement | Yes |
| | | | | | | | |
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7. Description of Work Replaced the disc. { * note remarks on Page 2 }

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 2837032 was utilized to replace the disc with a new one

Pre-Pressure Test Review: ISI NA ANII NA

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed *DBH* ENGR Date 10-30-06
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 Az and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-26-06 to 10-30-06, 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 *Johnson* Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-30-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PCHNV835
2. Item Description: 1-1/2" Borg Warner 1665# Y Type Lift Check Valve
3. N-5 Data Package Number: 2CH14-1
4. W.O. Number: 2837037
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disassemble valve for check valve inspection. Body to bonnet seal weld will need to be removed and later replaced.
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME pressure boundary. Seal weld is required to be removed to allow for valve disassembly.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992-Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 7-4-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Dmg Date 7-4-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 7-4-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial Dmg Date 7-4-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--------------------------|----------|------------|----------|--------------|
| 1-1/2" Borg Warner Valve | N/A | 56471 | N/A | N/A |
| Body/Bonnet Seal Weld | N/A | N/A | N/A | N/A |
| | | | | |
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18. Planner David Goodlet 7-4-2006 Printed Name: David Goodlet
Signature Date

19. ISI R.P. Indap 7/12/06 Printed Name: R.P. INDAP Log Entry R.P.
Signature Date

20. ANII R.G. Hogstrom 7-4-06 Printed 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: 7/4/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2837037

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical and Volumn Control System

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 56471 | N/A | 2PCHNV835 | 1980 | Repaired | YES |
| Seal Weld | N/A | N/A | N/A | 2PCHNV835 | 2006 | Replacement | NO |
| | | | | | | | |
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7. Description of Work: Removal of seal weld for check valve internal inspection.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure n/a psi

Test Temperature n/a °F

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

FORM NIS-2 (Back)

Remarks: Work Order# 2837037 on check valve 2PCHNV835 for inspection per the check valve program.. The bonnet seal weld needs to be removed and replaced to support this inspection.

Pre-Pressured Test WO Review – ISI N/A
ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R. P. Indap, ISI Engineer Date: 10-11-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 7-14-06 to 10-12-06, 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
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-12-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PIAEV073
- 2.. Item Description: Containment Service Air Supply Check Valve
3. N-5 Data Package Number: 2IA19-1 4. W.O. Number: 2837040
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Tack Hinge Support to the Bonnet per P221B-00145
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No Failure of the ASME Pressure Boundary

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date _____ If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

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

16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

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

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|------------|----------|------------|----------|-----------------------|
| Tack Welds | N/A | N/A | N/A | <u>TACK WELD ONLY</u> |
| | | | | |
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18. Planner J. L. Davis 11-5-06 Printed Name: JAMES J. DAVIS
Signature Date
19. ISI Wilby Ahlstrom 11-5-06 Printed Name: WILBY AHLSTROM Log Entry 034
Signature Date
20. ANII R. HOGSTROM PER TELECON Printed Name: _____
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 11/06/06
Name

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

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station
Name

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

Unit 2

2837040
Work Order Number

3. Work Performed by Arizona Public Service
Name

Type Code Symbol Stamp None

Authorization No. N/A

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

Expiration Date N/A

4. Identification of System IA

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S75 Addenda, **** Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Anchor Darling | E6374-3-3 | NA | 2PIAEV073 | 1981 | Repaired | Yes |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Note remarks on Page 2.

**** code cases listed on NPV-1

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 2837040 replaced the tack welds between the Check Valve hinge support and the bonnet.

Pre-Pressured Test WO Review – ISI

ANII

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: DBL ENR Date: 11-6-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 11-5-06 to 11-6-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 11-6-06

Page 1 of 1

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: 1/9/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2838770

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical and Volumn Control

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 51323 | N/A | 2PCHEV334 | 1979 | Repaired | YES |
| Seal Weld | N/A | N/A | N/A | 2PCHEV334 | 2006 | Replacement | NO |
| Disc | Flowserve | 34 | N/A | 2PCHEV334 | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Remove seal weld for valve internal inspection & rework for seat leakage.

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

N-416-2 ☐ Other Pressure psi

Test Temperature °F

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

FORM NIS-2 (Back)

9. Remarks: Work order # 2838770 on valve 2PCHEV334 for rework due to seat leakage. The bonnet seal weld needs to be removed and replaced to support this work. The disc was replaced to correct leakage past the seat.

Pre-Pressured Test WO Review - ISI N/A
ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: Alan Monow ISF Engineer Date: 1/9/06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 12-2-05 to 1-10-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 1-10-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JCPBUV0003B
2. Item Description: CNTMT PURGE RFL MODE ISOL VLV
3. N-5 Data Package Number: 2CP01-1
4. W.O. Number: 2840468
5. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: REPLACE STUD AND NUTS FOR INSTALLING BLIND FLANGE
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection: N/A
Report Number: N/A
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
NO, NO FAILURE OF PRESSURE BOUNDARY

10. Repair/Replacement Work Organization: Arizona Public Service 2 DDT 11-9-06 WJA 11-8-06 1976 Summer
11. Replacement Items Construction or reconciled Code/Edition: Sec. III CL1, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III CL1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Geo Date 11/6/06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Geo Date 11/6/06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Geo Date 11/6/06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial Geo Date 11/6/06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--|----------|------------|-----------|------------------|
| STUD 4 Each | 43110020 | | B979 | MR# 1161556 |
| 1" x 5" x 16" ^{thru hole} _{ASME} | | | INSTALLED | WO# 2840468 |
| NUT - 4 Each | | | ORDERED | WO# 2840471 |
| 1" x 16" ^{thru hole} _{ASME} 49991287 | | | R B Q | MR# 1161545 |
| | | | INSTALLED | WO# 2840468 |
| | | | ORDERED | WO# 2840471 |
| WASHER 1 Each. | 43181004 | | | MR# 1161556-0002 |

18. Planner G. Osmundson 11/6/06 Printed Name: G. Osmundson
Signature Date

19. ISI Wiley Ahlstrom 11-6-06 Printed Name: WILEY AHLSTROM Log Entry WJA
Signature Date

20. ANII B. Hogstrom 11/6/06 Printed Name: B. Hogstrom
Signature Date
Per Tele-con G. Osmundson

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

As Required by the Provisions of the ASME Code Section XI

Owner: Arizona Public Service Company, et. al.

Date: 11/06/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2840468

3. Work Performed-by: Arizona Public Service Co.

Type of Code Stamp None

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

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CP01-1

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Summer 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Stud | N/A | N/A | N/A | B-979 | 2006 | Replacement | No |
| Nut | N/A | N/A | N/A | RBQ | 2006 | Replacement | No |
| | | | | | | | |
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7. Description of Work: Replace blind flange stud and nuts found short.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-2 ☐
Other ☐ Pressure Test Temperature °F

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

FORM NIS-2 (Back)

9. Remarks: WO 2840468 REPLACE BLIND FLANGE BOLTINGS (FOUND SHORT IN LENGTH)

Pre-Pressured Test WO Review – ISI NA

ANII NA

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: [Signature] ISI ENGINEER Date: 11-8-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 11-6-06 to 11-9-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 11-9-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 2PSPAL068
2. Item Description: DISCHARGE FLOW INDICATOR S.P.
3. N-5 Data Package Number: 2SP01-2
4. W.O. Number: 2841280
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: To remove the annubar for engineering inspection, during this evolution the flange fasteners will be removed and replaced due to corrosion of the fasteners for ease of re-installation.
8. ☐ ISI Flaw _____ NDE Method of Flaw Detection: _____
Report Number: _____
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
This annubar is being removed for an engineering inspection. Fastener replacement is NOT due to failure.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date 9-26-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial N/A Date 9-26-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MJC Date 9-26-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial MJC Date 9-26-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|--------------|------------|----------|--------------|
| STUDS | APN 43110014 | N/A | 015587 | MR 1136228 |
| NUTS | APN 43122013 | N/A | LVH | MR 1136228 |
| | | | | |
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18. Planner Martin J Sullivan 9-26-06
Signature _____ Date _____

Printed Name: Martin J Sullivan

19. ISI R.P. INDAP 9/28/06
Signature _____ Date _____

Printed Name: R.P. INDAP Log Entry RP

20. ANII R.G. HOGSTROM 9-28-06
Signature _____ Date _____

Printed 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: 09/26/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2841280

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: SP

5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Summer 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|---------------------------|------------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| S.P. flow meter fasteners | Pullman power products | | N/A | 2PSPAL068 | 2006 | Repaired | NO |
| Flange studs | N/A | | N/A | 2JSPAPE0005 | 2006 | Replacement | NO |
| Flange nuts | N/A | | N/A | 2JSPAPE0005 | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: To remove for eng. inspection and to replace flange fasteners, replacement is not due to failure.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: To remove for engineering inspection and to replace flange fasteners, replacement is not due to failure. w.o. 2841280.

Pre-Pressured Test WO Review – ISI N/A
ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R. P. Indap, ISI Engineer Date: 10-25-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 9-28-06 to 10-26-06, 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

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date: 10-26-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID: 2PRCEL146
2. Item Description: Reactor Head Vent Piping Support Bracket
3. N-5 Data Package Number: 2RC01-2
4. W.O. Number: 2851471
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Fabricate and Install Upgraded Design Reactor Head Vent Line Support Bracket
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:

9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

The Unit-1 Reactor head vent line was inspected during U1R12 and found to be out of configuration. CRDR 2845898 was written to document and evaluate the condition. As part of the Transportability review, the Units 2 & 3 Reactor Head Vent Line support brackets are being inspected and if necessary will be replaced by an newly fabricated bracket per the details on drawing N001-0301-00168.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III NF Cl 1, 1974 Edition Winter 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date 5/11/06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial KOS Date 5/11/06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial KOS Date 5/11/06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial KOS Date 5/11/06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--------------------------|--|------------|---------------|---------------------------------------|
| Channel, Structural SA36 | * APN <u>00097095</u> <u>00094304</u> | | <u>J63427</u> | * <u>1119547</u> MR <u>1097861</u> |
| Tubing, Structural SA36 | * APN <u>00097093</u> <u>00094303</u> | | <u>N60165</u> | * <u>1119547</u> MR <u>1097861</u> |
| Plate, 1/2" SA36 | * APN <u>43643245</u> <u>43643245</u> | | <u>1R720</u> | * <u>1119547</u> MR <u>1097861</u> |
| Bolt, 1/2" SA 193 Gr.B7 | * APN <u>43103081</u> <u>43103081</u> | | <u>893841</u> | * <u>1119547</u> MR <u>1097861</u> |
| Nut, 1/2" SA 194 Gr.B7 | * APN <u>00097094</u> <u>00094302</u> | | <u>N1</u> | * <u>1119547</u> MR <u>1097861</u> |
| | | | | |
| | | | | |

18. Planner Karl V. Savage 5/11/06
Signature Date

* Per TelCon with K. Savage 10/6/16 Jem
Printed Name: Karl V. Savage

19. ISI Fred Poteet 5/11/06
Signature Date

Printed Name: FRED POTEET Log Entry JP

20. ANII R.G. Hogstrom 5-11-06
Signature Date

Printed 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: 05/11/2006

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

Sheet: 1 of 1

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2851471

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC - Reactor Coolant

5. (a) Applicable Construction Code ASME Section III NF, Class 1 1974 Edition, Winter 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|--------------------------|---------------------|-------------------------|--------------------|---------------------------|------------|-------------------------|-------------------------------|
| Channel, Structural SA36 | N/A | N/A | N/A | N001-0301-168 Item 656-03 | N/A | Replacement | NO |
| Tubing, Structural SA36 | N/A | N/A | N/A | N001-0301-168 Item 656-04 | N/A | Replacement | NO |
| Plate SA36 | N/A | N/A | N/A | N001-0301-168 Item 656-05 | N/A | Replacement | NO |
| Bolts SA193GrB7 | N/A | N/A | N/A | N001-0301-168 Item 656-12 | N/A | Replacement | NO |
| Nuts SA194GrB7 | N/A | N/A | N/A | N001-0301-168 Item 656-13 | N/A | Replacement | NO |

7. Description of Work: Replace the head vent piping support bracket to updated design shown on N001-0301-00168

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: Work Order 2851471. Fabricated and installed updated design of head vent piping support bracket as shown on drawing N001-0301-00168.

Pre-Pressured Test WO Review – ISI _____

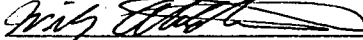
ANII _____

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A

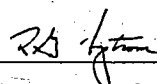
Certificate of Authorization No. _____ N/A Expiration Date: _____ N/A

Signed:  ISI ENGINEER Date: 11-3-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 5-11-06 to 11-4-06, 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.


Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 11-4-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page () of ()

1. Component ID 45060185
- 2.. Item Description: Bonnet, Arm and Disc Assembly
3. N-5 Data Package Number: 1RC01-1C
4. W.O. Number: 2860072
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace and weld a new stud in the disc
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial NA Date _____ If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial J.O. Date 10-2-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial J.O. Date 10-2-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial J.O. Date 10-2-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------|--------------|--------------|----------|--------------|
| Disc | 76347 | SN 2 | 1Q90 | WO 2837012 |
| Disc Stud | APN 00093014 | Trace # CL70 | N/A | MR 1015735 |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

18. Planner [Signature] 10-2-06 Printed Name: JAMES L. DAVIS
Signature Date
19. ISI [Signature] 10/2/06 Printed Name: BILL LENTMAN Log Entry _____
Signature Date
20. ANII [Signature] 10-2-06 Printed Name: REG 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 11/03/06
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 2860072
Address Work Order Number

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

4. Identification of System NA

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| DISC | Borg-Warner | SN 2 | NA | NA | 1978 | Repaired | Yes |
| | | | | | | | |
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| | | | | | | | |
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7. Description of Work Note remarks in Section 9 on Page 2.

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 2860072 was utilized to replace the stud in the disc. This WO does not install the disc into a valve.

Pre-Pressure Test Review: ISI NA ANII NA

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 D. B. L. ENGR Date 11-3-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-2-06 to 11-4-06, 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 Az 264
National Board, State, Province, and Endorsements

Date 11-4-06

Page 1 of 1

18. Planner J. L. Davis 3-7-06
Signature Date
Printed Name: James I. Davis
19. ISI R. P. Indap 3-8-06
Signature Date
Printed Name: R. P. INDAP Log Entry RPI
20. ANII R. G. Hogstrom 3-9-06
Signature Date
Printed 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 11/03/06

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

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Unit 2

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

2861198
Work Order Number

3. Work Performed by Arizona Public Service
Name

Type Code Symbol Stamp None

Authorization No. N/A

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

Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Posi Seal | 14338-1-B | NA | 2JSIBUV679 | 1979 | Repaired | Yes |
| Bolts | NA | NA | NA | HC# 516788 | 2006 | Replacement | No |
| | | | | | | | |
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7. Description of Work {note remarks on Page 2}

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 2934186 was performed to replace the gasket retainer bolts on valve 2ISIBUV679

Pre-Pressure Test Review: ISI NA ANII NA

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed DBH ENGR Date 11-3-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ARIZONA and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-9-06 to 11-3-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS Inspector
Inspector's Signature

Commissions Az 264
National Board, State, Province, and Endorsements

Date 11-3-06

Page 7 of 7

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: 10-13-2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2861966

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical & Volumn Control System

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, --- Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 881-L-0042 | N/A | 2PCHNV816 | 1990 | Repaired | YES |
| Seal Weld | N/A | N/A | N/A | 2PCHNV816 | 2006 | Replacement | NO |
| Plug/Stem Ass'y | Flowserve | 20 | N/A | 2PCHNV816 | 2006 | Replacement | NO |
| | | | | | | | |
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7. Description of Work: Disassembled valve to rework to correct seat leakage. Removed & replaced seal weld & plug.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: Per wo# 2861966 on valve 2PCHNV816 the body to bonnet seal weld will need to be removed to disassemble the valve to correct seat leakage. Following rework the seal weld will be replaced. The plug/stem assembly was replaced due to seat wear.

Pre-Pressured Test WO Review – ISI N/A
ANII A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: DAH - ENGR Date: 10-14-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 7-12-06 to 10-14-06, 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
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-14-06

ASME SECTION XI – REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID BY-14537
- 2.. Item Description: Spare Presurizer safety relief valve
3. N-5 Data Package Number: _____ 4. W.O. Number: 2863036
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Overhaul of spare relieve valve.
8. ☐ ISI Flaw NDE Method of Flaw Detection: N/A
Report Number: N/A
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No failure of ASME III presure boundary. The spare valve was reworked and the spring was replaced due to greater than .250" of tilt.

10. Repair/Replacement Work Organization: NWS Technologies
11. Replacement Items Construction or reconciled Code/Edition: Sec.III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 9-30-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Dmg Date 9-30-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 9-30-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial Dmg Date 9-30-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------------|----------------|------------|----------|--------------|
| Spring assembly | APN # 00066798 | 96565-1 | N/A | PO 500249344 |
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18. Planner David M. Geddes 9-30-06 Printed Name: DAVID M. GEDDES
Signature Date
19. ISI R.P. Indap 10/3/06 Printed Name: R.P. INDAP Log Entry RPI
Signature Date
20. ANII R.G. Hogstrom 10-4-06 Printed 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: 09/30/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2863036

3. Work Performed by: NWS Technologies

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Spring Assembly | DRESSER | 96565-1 | N/A | BY-14537 | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
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7. Description of Work: The spare valve was reworked and the spring was replaced.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO 2863036 SN BY-14537 was reworked and the spring assembly was replaced due to greater than .250" tilt.

Pre-Pressured Test WO Review – ISI N/A
ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R. P. Indap, ISI Engineer Date: 10-3-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-4-06 to 10-4-06, 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
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-4-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PSIEV543
- 2.. Item Description: HPSI/LPSI Header Loop Injection Check Valve
3. N-5 Data Package Number: 2RC01-1B 4. W.O. Number: 2863671
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Summer 1975 Addenda *WINTER 0914, 1-2-06*
7. Work Description: Rework or replace the bonnet and disc assembly to correct seat leakage
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Seat leakage - No ASME boundary failure

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date _____ If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial J.S. Date 4-25-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial J.S. Date 4-25-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial J.S. Date 4-25-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------------------|------------------|------------|----------|--------------|
| <u>Assembly num</u> | <u>NO 291208</u> | | | |
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18. Planner *[Signature]* 4-25-06 Printed Name: James I. Davis
Signature Date
19. ISI *[Signature]* 4-26-06 Printed Name: RL Brown Inc Log Entry RLB
Signature Date
20. ANII *[Signature]* 4-26-06 Printed 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 11/02/06
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 2863671
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 85354-7529 Expiration Date N/A
Address

4. Identification of System RC
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | 51029 | 1606 | 2PSIAV543 | 1979 | Repaired | Yes |
| Bonnet | Borg-Warner | SN 18 | NA | NA | * | Replacement | Yes |
| Disc | Borg-Warner | SN 8 | NA | NA | * | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work * Note remarks in Section 9 on Page 2.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
Other ☐ Pressure ≥ 600 psi Test Temp. PA °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 2863671 was utilized to replace the bonnet and disc assembly. The replacement assembly was removed from 1PSIAV541 by WO 2824821. It was refurbished by WO 2912178

Pre-Pressure Test Review: ISI DBI/11-2006 ANII 11-0-06

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 71878-ENR Date 11-9-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ARIZONA and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-26-06 to 11-9-06, 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.

25 [Signature]
Inspector's Signature

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

Date 11-9-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 2PSIBV1026
2. Item Description: 1" Vent Valve with blind flange.
3. N-5 Data Package Number: _____
4. W.O. Number: 2865107
5. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install a vent valve in line 2PSIBL193 iaw design change DM# 2824546.
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a failure of the ASME III pressure boundary. The 1" valve and piping are a new design change to add a vent to the existing system piping.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition, 1976 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial DGG Date 9-18-2006 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial DGG Date 9-18-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DGG Date 9-18-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial DGG Date 9-18-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-------------------|--------------------------------------|------------|---------------------------|------------------------------------|
| Valve | APN 45000244 | 13BGG | N/A | MR 1092976 |
| 16"x1" Weldolet | APN 00098057 ^{W.O. 9/12/06} | N/A | 726516 ^{4026ANA} | MR 1143022 ^{W.O. 9/12/06} |
| 1" Pipe | APN 43510515 | N/A | 503173 ^{4026ANA} | MR 1092976 |
| 1" SW Flange | APN 43580760 | N/A | 26545 | MR 1092976 |
| 1" Bling Flange | APN 43580943 | N/A | 451VAB ⁵¹⁰¹¹ | MR 1142080 |
| Studs - 7/8" dia. | APN 43115015 | N/A | 726516 | MR 1092976 |
| Nuts - 7/8" | APN 43127016 | N/A | LYI | MR 1092976 |

18. Planner David M. Goodlet 9-16-2006 Signature _____ Date _____ Printed Name: DAVID M. GOODLET
19. ISI R.P. Indap 9-19-2006 Signature _____ Date _____ Printed Name: R.P. INDAP Log Entry RPI
20. ANII R.G. Hogstrom 9-19-06 Signature _____ Date _____ Printed 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: 10/26/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2865107

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: SI: Safety Injection System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 - 1974 Edition, Winter 1975 Addenda, 4 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | FlowServe | 13BGG | n/a | 2PSIBV1026 | 2006 | Replacement | YES |
| 16"x1" Weldolet | N/A | N/A | n/a | 4026ANA | 2006 | Replacement | NO |
| 1" Pipe | N/A | N/A | n/a | 503173 | 2006 | Replacement | NO |
| 1" SW Flange | N/A | N/A | n/a | 26545-1 | 2006 | Replacement | NO |
| 1" Blind Flange | N/A | N/A | n/a | 451VNE | 2006 | Replacement | NO |
| Studs - 7/8" dia. | N/A | N/A | n/a | 726516 | 2006 | Replacement | NO |
| Nuts - 7/8" | N/A | N/A | n/a | 1Y1 | 2006 | Replacement | NO |

7. Description of Work: Install New High Point Vent Valve per EDC 2006-00084

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

Remarks: WO# 2865107 installs a new 1" vent valve, 2PSIBV1026 iaw design mod DM# 2824546& EDC# 2006-00084.

Pre-Pressured Test WO Review – ISI N/A

ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date: N/A

Signed: AP Boudap, ISI Engineer

Date: 10-26-2006

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 9-19-06 to 10-27-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS Boudap

Inspector's Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date: 10-27-06

Page 1 of 1

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: 10/31/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2865950

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC: Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1975 Addenda, 1 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Fisher | 6558897 | N/A | 2JRCEPV0100F | 1980 | Repaired | YES |
| Plug/Stem Ass'y | Fisher | AC8402-2 | N/A | 2JRCEPV0100F | 2003 | Replacement | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Disassemble valve for stem replacement and valve repack.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2865950 for valve 2JRCEPV0100F. The Plug/Stem Ass'y was replaced during valve repack. Only the stem needed replacement but the assembly was replaced to reduce radiation dosage.

Pre-Pressured Test WO Review – ISI MA

ANII MA

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: DBL Date: 11-1-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-18-06 to 11-1-06, 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
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 11-1-06

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

**As Required by the Provisions of the ASME Code, Section III
Not to exceed One Day's Production**

Pg. 1 of 1

019-F503238

1. Manufactured and certified by FISHER CONTROLS INT'L INC., 205 SOUTH CENTER STREET, MARSHALLTOWN, IA. 50158
(name and address of NPT Certificate Holder)
2. Manufactured for Arizona Public Service Co, PO Box 53940, Phoenix, AZ 85072
(name and address of purchaser)
3. Location of installation Palo Verde Nuclear Station, 4 Miles South of Wintersburg Rd, Palo Verde, AZ 85343
(name and address)
4. Type 15A1217 Rev. B SA479 S31603 70 KSI N/A 2003
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1974 Summer 1975 1 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Design: ASME BPVC Sec III, 1974 Edition, Summer 1975 Addenda, Class 1
Other: ASME BPVC Sec III, 1986 Edition, No Addenda, Class 1
8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| | Part or Appurtenance Serial Number | Heat Number |
|------|---------------------------------------|-------------|
| (1) | AC8402-1 | 721044 |
| (2) | AC8402-2 ✓ | 721044 |
| (3) | | |
| (4) | | |
| (5) | | |
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| (25) | | |

| | Part or Appurtenance Serial Number | Heat Number |
|------|---------------------------------------|-------------|
| (26) | | |
| (27) | | |
| (28) | | |
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| (46) | | |
| (47) | | |
| (48) | | |
| (49) | | |
| (50) | | |

10. Design Pressure 2485 psi. Temp. 650 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

CERTIFICATION OF DESIGN

Design specifications certified by T. L. Kettles P.E. State NY Reg. no. PE029729
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Plug/Stem Assy
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1930 Expires 11-11-2004

Date 9-18-03 Name FISHER CONTROLS INT'L INC Signed Jonda Ward
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP 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 Iowa
and employed by Hartford Steam Boiler of CT
of Hartford, CT have inspected these items described in this Data Report on 9-18-03 and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has
been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report.
Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected
with this inspection.

Date 9-18-03 Signed Kent Cochran Commissions 822 IA.
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JRCBHV0109

Item Description: PRESSURIZER VENT TO RDT

2. N-5 Data Package Number: 2RC03-2

4. W.O. Number: 2872491

5. Original Construction Code Edition: 1977 Edition, Winter 1978 Addenda

6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda

7. Work Description: REWORK VALVE INTERNALS TO ELIMINATE SEAT LEAKAGE

8. ☐ ISI Flaw

NDE Method of Flaw Detection:

Report Number:

9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

NO PRESSURE BOUNDARY FAILURE

10. Repair/Replacement Work Organization: Arizona Public Service

11. Replacement Items Construction or reconciled Code/Edition: SEC.III CL.1 1989 Edition No Addenda

12. Repair/Replacement Activity Construction Code/Edition: Sec. III CL.1, 1974 Edition 1975 Winter Addenda

13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required:

☐ YES

☒ NO

Initial Geo Date 2/28/06

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

15. ASME Section XI Pressure Test Required:

☐ YES

☒ NO

Initial Geo Date 2/28/06

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

Initial Geo Date 2/28/06

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

Initial Geo Date 2/28/06

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

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------|----------|------------|----------|---------------------------|
| disc asm | 00055319 | 5/N 370 | NA | MR 01071196 WO 2872491 |
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18. Planner G. Osmundson 2/28/06
Signature Date

Printed Name: G. OSMUNDSON

19. ISI R.P. Indap 3/8/06
Signature Date

Printed Name: R.P. INDAP Log Entry RPI

ANII R.G. Hogstrom 3-8-06
Signature Date

Printed 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 11/01/06
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 2872491
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah, Az 85354-7529 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Safety Injection5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Target Rock | 5 | NA | 2JRCBHV109 | 1982 | Repaired | Yes |
| Disc - removed | Target Rock | NA | NA | NA | 1982 | Replaced | Yes |
| Disc - installed | Target Rock | 370 | NA | NA | 2005 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replaced the disc. (* note remarks on Page 2)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 2872491 was utilized to replace the disc with a new one.

Pre-Pressure Test Review: ISI NA ANII NA

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 D B H- ENGR Date 11-1-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ARIZONA and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-8-06 to 11-1-06, 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 Az 264
National Board, State, Province, and Endorsements

Date 11-1-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JRCBHV0108
2. Item Description: PRESSURIZER VENT VALVE TO RDT
3. N-5 Data Package Number: 2RC03-2 4. W.O. Number: 2872494
5. Original Construction Code Edition: 1977 Edition, Winter 1978 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: REWORK VALVE INTERNALS TO ELIMINATE SEAT LEAKAGE
8. ☐ ISI Flaw N A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
NO PRESSURE BOUNDARY FAILURE

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: SEC.III CL.1 1989 Edition No Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial SEO Date 2/28/06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial SEO Date 2/28/06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial SEO Date 2/28/06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial SEO Date 2/28/06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------|----------|------------|----------|---------------------------|
| Disc asm | 00055319 | SN 3 | 10932 | mr 01071195 wo 2872494 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner G. Osmundson 3/28/06 Printed Name: G. Osmundson
Signature Date

19. ISI R.P. Indap 3/7/06 Printed Name: R.P. INDAP Log Entry RRR
Signature Date

20. ANII R.G. Houston 3-8-06 Printed 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 11/01/06
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 2872494
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 85354-7529 Expiration Date N/A
Address

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Target Rock | 2 | NA | 2JRCBHV108 | 1982 | Repaired | Yes |
| Disc - removed | Target Rock | NA | NA | NA | 1982 | Replaced | Yes |
| Disc - installed | Target Rock | 3 | NA | HT P0932 | 2005 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replaced the disc. { * note remarks on Page 2 }

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 2872494 was utilized to replace the disc with a new one

Pre-Pressure Test Review: ISI NA ANII NA

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed *DBH* *ENGL* Date 10-31-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-8-06 to 11-1-06, 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.

25 *Hyatt* Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 11-1-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 2CH034H00A
- 2.. Item Description: Weld between item 70 and support
3. N-5 Data Package Number: 2CH14-2
4. W.O. Number: 2883359
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: 1) Remove weld between item 70 and support to allow pipe free movement. 2) Weld build up of item 70
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a failure of the AMSE III NF boundary. Need to remove weld at support to free up pipe to allow spreading of flanges at flow orifice.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III NF Cl 1, 1974 Edition Winter 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III NF Cl 1, 1974 Edition Winter 1974 Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 9-21-2006 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial DMG Date 9-21-2006 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 9-21-2006 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component for permanent service or power operation.

Initial DMG Date 9-21-2006 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|------------|----------|------------|----------|--------------|
| 2CH034H00A | N/A | N/A | N/A | N/A |
| | | | | |
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18. Planner David M. Goodlet 9-21-2006 Printed Name: DAVID M. GOODLET
Signature Date
19. ISI R.P. Indap 9/21/06 Printed Name: R.P. INDAP Log Entry R.P.
Signature Date
20. ANII R.G. Hoegstrom 9-26-06 Printed Name: R.G. HOEGSTROM
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 10/30/06
Name

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

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station
Name

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

Unit 2

2883359
Work Order Number

3. Work Performed by Arizona Public Service
Name

Type Code Symbol Stamp None

Authorization No. N/A

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

Expiration Date N/A

4. Identification of System CH

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Support Component | NA | NA | NA | 2CH034H00A | NA | Repaired | No |
| | | | | | | | |
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7. Description of Work {note remarks on Page 2}

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 2883359 was performed on 2CH034H00A to remove and replace the support Item 70.
This work supported the removal of a flanged flow orifice.

Pre-Pressure Test Review: ISI NA ANJI NA

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed DBL ENYR Date 10-30-06
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 Az and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-26-06 to 10-30-06, 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 Signature Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-30-06

Page 1 of 1

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 10/14/06
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 2886144
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 Spray Pond & 2MEWBE01

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| SP/EW | Struther Wells Corp | 17606329142 | 14533 | 2MEWBE01 | 1979 | Repaired | Yes |
| | | | | | | | |
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7. Description of Work See remarks on sheet 2.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-2 ☐

Other ☐ Pressure 39 psi Test Temp. 67 °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)

W.O. 2886144

9. Remarks The work included performing base material weld repairs on the Channel Heads

Pre-Pressure Test Review: ISI NA ANII NA

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed DBL - Date 10-14-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ARIZONA and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-8-06 to 10-14-06, 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.

DBL Inspector's Signature Commissions NB 9685 "A.N.I.C." Az 264
National Board, State, Province, and Endorsements
Date 10-14-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2MEWAE01
- 2.. Item Description: Essential Cooling Water Heat Exchanger "A"
3. N-5 Data Package Number: 2EW01-1
4. W.O. Number: 2900130
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace some channel head cover fastener studs
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
As a part of routine maintenance, corroded studs are being replaced.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial JW Date 10/19/06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial JW Date 10/19/06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial JW Date 10/19/06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial JW Date 10/19/06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|--------------------------------|--------------|------------|-------------|-------------------|
| Channel head stud for 2MEWAE01 | APN 43110016 | N/A | <u>2345</u> | MR <u>1154921</u> |
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18. Planner John Waltman 10/19/06 Printed Name: John Waltman
Signature Date

19. ISI R.P. Indap 10/19/06 Printed Name: R.P. Indap Log Entry RA2
Signature Date

20. ANII RG Hogstrom 10-19-06 Printed Name: RG Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al.

Date: 10/19/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2900130

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

5801 South Wintersburg Road, Tonopah, Arizona 85354-7529

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Essential Cooling Water (EW)

5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Winter 1975 Addenda, NA Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|--------------------------|----------------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Channel head cover studs | N/A | N/A | N/A | Ht# <u>Z 345</u> | 2006 | Replacement | No |
| EW Ht Exch | Struther Wells Corporation | 17606329142 | 14533 | 2MEWAE01 | 1979 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: During performance of work order to open channel head covers to clean tubes some of the channel head cover studs were needed to be replaced.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☒ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temperature 10-30-06 °F

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

FORM NIS-2 (Back)

9. Remarks: Work Work Order 2900130. To replace corroded studs on the Essential Cooling Water Heat Exchanger.

Pre- Pressure Test Review: ISI: N/A
ANI: A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: 713-11- ENGR Date: 10-30-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-19-06 to 10-30-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS [Signature]
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 10-30-06

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID BS-0860408623 1290
- 2.. Item Description: Main Steam Safety Valve; Dresser - 6" 3707RAX-RT-25 1315 psig
3. N-5 Data Package Number: n/a
4. W.O. Number: 2901738
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Maintenance overhaul and testing of spare valve. Code part replacement from other spare valves or from approved purchased spare parts based upon inspection results.
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No failure of the ASME III boundary. The disc will be replaced with preoxidized ASME SB637 or ASTM B637 Inconel X-750 material to enhance performance. Other parts will be replaced on a as needed basis.

10. Repair/Replacement Work Organization: NWS Technologies
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dady Date 6-27-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Dady Date 6-27-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dady Date 6-27-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial Dady Date 6-27-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|--------------|------------|----------|--|
| Disc | APN 00064290 | ADG60 | N/A | MR 1113901 943938 |
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18. Planner David Goodlet 6-27-06 Signature Date Printed Name: DAVID GOODLET
19. ISI R.P. Indap 6/29/06 Signature Date Printed Name: R.P. INDAP Log Entry RPZ
20. ANII R.C. Hoxstrom 6-29-06 Signature Date Printed Name: R.C. HOXSTROM

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: 9/22/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2901738

3. Work Performed by: NWS Technologies

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical and Volumn Control System

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Summer 1975 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Disc | Dresser | ADG60 | N/A | BS-08623 | 2001 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

7. Description of Work: Overhaul and test spare Main Steam Safety Valve.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure n/a psi

Test Temperature n/a °F

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

FORM NIS-2 (Back)

9. Remarks: Work order #2901738 for off-site disassembly, reconditioning and testing of a spare Main Steam Safety Valve; s/n BS-08623. The new type (material) disc was installed.

Pre-Pressured Test WO Review – ISI N/A
ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R. J. Indap, ISI Engineer Date: 10-3-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-3-06 to 10-4-06, 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.

25 Signature Commissions: NB 9685 "N" "T" AZ264
Inspectors Signature National Board, State, Province, and Endorsements
Date: 10-4-06

13508623

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Dresser Valve Division; Dresser Equipment Group, Inc.
(name and address of NPT Certificate Holder)
Intersection Hwy. 167 @ 3225 North, Alexandria, Louisiana 71309
2. Manufactured for Arizona Public Service Company P.O. Box 53940 Phoenix, Arizona 85072-3940
(name and address of purchaser)
3. Location of installation Arizona Public Service Co Palo Verde Nucl Generation 5801 S Wintersburg Rd. Tonopah, Arizona 85354
(name and address)
4. Type OS414 SB637 (Inconel X-750) N/A N/A 2001
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code Section III, Division 1: 1974 Summer 1975 2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no)
7. Remarks : Serial Numbers Are Used In Lieu Of NPT Stamping.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A
9. Where applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|---------------------------------------|---|
| (1) ADG601 | 13508623 | (28) | |
| (2) ADG61 | | (27) | |
| (3) ADG62 | | (28) | |
| (4) ADG64 | | (29) | |
| (5) ADG65 | | (30) | |
| (6) | | (31) | |
| (7) | | (32) | |
| (8) | | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
| (11) | | (36) | |
| (12) | | (37) | |
| (13) | | (38) | |
| (14) | | (39) | |
| (15) | | (40) | |
| (16) | | (41) | |
| (17) | | (42) | |
| (18) | | (43) | |
| (19) | | (44) | |
| (20) | | (45) | |
| (21) | | (46) | |
| (22) | | (47) | |
| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

10. Design pressure N/A psi Temp. N/A °F. Hydro. Test pressure 2250 PSIG at temp. °F
(when applicable)

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

2503623

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. ADG60,61,62,64 through ADG65

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)
Design report* certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these)
conforms to the rules of construction of the ASME Code, Section III, Division 1. Disc _____

NPT Certificate of Authorization No. N-2434 Expires 5/20/2004

Date 8-6-01 Name SEE LINE 1 Signed V J Bowers
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF 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 LOUISIANA and employed by H. S. B. I. & I. Co.
of HARTFORD, CT. have inspected these items described in this Data Report on 8/6/01 and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
or loss of any kind arising from or connected with this inspection.

Date 8/6/01 Signed [Signature] Commissions LAB64
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID: 2PSIAV522
2. Item Description: A HPSI Injection to Loop 1 Check Valve
3. N-5 Data Package Number: 2RC01-1B
4. W.O. Number: 2909318
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Summer 1975 Addenda
7. Work Description: Rework or replace the bonnet and disc assembly to correct seat leakage
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Seat leakage - No ASME boundary failure

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date _____ If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial J.S Date 7-20-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial J.S Date 7-20-06 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial J.S Date 7-20-06 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|----------|------------|----------|--------------|
| BONNET | | SN 1W | | |
| DISC | | SN 2 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner [Signature] Date 7-20-06 Printed Name: JAMES I. DAVIS

19. ISI [Signature] Date 7-20-06 Printed Name: WILEY AHLSTROM Log Entry WJA

20. ANII [Signature] Date 7-20-06 Printed Name: RG 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 11/02/06
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 2909318
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 85354-7529 Expiration Date N/A
Address

4. Identification of System SI

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 92 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | 51712 | NA | 2PSIAV522 | 1979 | Repaired | Yes |
| Bonnet | Borg-Warner | SN1W | NA | IQ89 | * | Replacement | Yes |
| Disc | Borg-Warner | SN2 | NA | IQ90 | * | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work * Note remarks in Section 9 on Page 2.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
Other ☐ Pressure 2130 psi Test Temp. 52 °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 2909318 was utilized to replace the bonnet and disc assembly. The replacement assembly was removed from 1PSIAV523 by WO 2837012. It was refurbished by WO 2860072.

Pre-Pressure Test Review: ISI DBH ANII 11-2-06

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed DBH WJR Date 11-9-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 7-20-06 to 11-9-06, 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.

DBH WJR Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 11-9-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2SG036H011
- 2.. Item Description: Steam Generator #1 Main Steam line 2 Constant Spring Hanger
3. N-5 Data Package Number: 2SG01-1A 4. W.O. Number: 2912408
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disassemble main steam line supports and inspect load couplings & collar for damage.
8. ☒ ISI Flaw NDE Method of Flaw Detection: VT
Report Number: VT-06-965

9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

CRDR 2887685 provides the evaluation and suitability of this replacement

10. Repair/Replacement Work Organization: Arizona Public Service *NF*
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda *NF*
14. Preservice Inspection Required: ☒ YES ☐ NO

Initial Dmg Date 10-26-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial Dmg Date 10-26-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 10-26-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial Dmg Date 10-26-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------------------|--------------|------------|----------|--------------|
| Hanger | N/A | H1242 | N/A | N/A |
| Load Coupling | APN 00096412 | 41-76070 | N/A | MR 1128750 |
| Anti-Friction Collar | APN 00095950 | N/A | 1420296 | MR 1108924 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner David M. Goodlet 10-26-06 Signature Date Printed Name: DAVID M. GOODLET

19. ISI R.P. Indap 10-26-06 Signature Date Printed Name: R.P. INDAP Log Entry REP

20. ANII R.G. Hogstrom 10-26-06 Signature Date Printed 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: 10/26/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2912408

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: SG - Main Steam

5. (a) Applicable Construction Code ASME Section III NF, Class 2 1974 Edition, Winter 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Spring Support | ITT Grinnell | H1242 | N/A | 2SG036H011 | 1982 | Repaired | YES |
| Load Coupling | Anvil | 41-76070 | N/A | 2SG036H011 | 2006 | Replacement | YES |
| Anti-friction Collar | Anvil | N/A | N/A | 2SG036H011 | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Replaced the load coupling and anti-friction collar.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2912408 reworked hanger 2SG036H011. The existing load coupler and anti-friction collar were removed and replaced. The existing load coupling was damaged, reported under CRDR 2887685.

Pre-Pressured Test WO Review - ISI NA

ANII NA

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: DBH - ENR Date: 11-1-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-26-06 to 11-1-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 11-1-06

FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS*
As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

1. Manufactured by Anvil International, Inc. - 160 Frenchtown Rd. No. Kingstown, RI 02852
(name and address of NPT Certificate Holder)

2. Manufactured for Arizona Public Service Co. Palo Verde 5801 South Wintersburg Road Tonopah, AZ 85354
(name and address of Purchaser)

3. Location of installation Arizona Public Service Co. Palo Verde 5801 South Wintersburg Road Tonopah, AZ 85354
(name and address)

4. Type: C.S.S. DRS 80 Rev.0 2006
(describe) (Design Report or Load Capacity Data Sheet) (year built)

5. ASME Code, Section III, Division 1: 1974 Winter 1975 2 N/A
(edition) (addenda date) (class) (Code Case no.)

| 6. Identification | (a) Component Support I.D. No. | (b) Material Specification No. | (c.) Canadian Registration No. | (d) Applicable Drawings With Last Rev. & Date | (e) National Board No. |
|-------------------|---|---|---|--|---------------------------------|
| (1) | 2006- 162 | Note 1 | N/A | BH1586/A 2/3/05 | N/A |
| (2) | | | | | |
| (3) | | | | | |
| (4) | | | | | |
| (5) | | | | | |
| (6) | | | | | |
| (7) | | | | | |
| (8) | | | | | |
| (9) | | | | | |
| (10) | | | | | |

7. Remarks: _____

Note 1: SA36, SA106 GR.B,

Note 2: Material Supplied to ASME Section II, 1992 Edition, 1993 Addenda

PO#: 500303236

SO#: 41-76070

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data 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.

(12/88)

This form (E00075) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM NF-1 (Back - Pg. 2 of 2)

Component Support I.D. Nos. 2006-162 through 2006-162

CERTIFICATE OF DESIGN

Design Specification certified by H. R. Sonderegger P.E. State R.I. Reg. no 3537
Design Report certified by Frank J. Birch P.E. State R.I. Reg. no 4149

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component supports conform to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2802 Expires 9/29/2007

Date 9-28-06 Name Anvil International, Inc. Signed [Signature]
(NPT Certificate Holder)

CERTIFICATE OF 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 Rhode Island and employed by H.S.B. C.T. of Hartford, C.T. have inspected the component supports described in this Data Report on 9/28/06, and state that to the best of my knowledge and belief, the Certificate Holder has constructed these component supports in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component supports described in this Data 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.

Date 9/28/06 Signed [Signature] Commissions RI 862 ABNI
(Authorized Inspection) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

Page 1 of 1 μ/A

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

Printed Name: R. 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 10/30/06

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 2913006
Name
Address Work Order Number

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

5801 S. Wintersburg Rd., Tonopah, AZ 85354 Authorization No. N/A
Name
Address

Expiration Date N/A

4. Identification of System Spray Pond "2PSPAL068" Piping

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Pipe | Pullman Power | 2SP068S023 | NA | 2PSPAL068 | 1979 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work See remarks on sheet 2.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-2 ☐

Other ☐ Pressure 41 psi Test Temp. 63/64 °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 2913006 performed base material weld repairs on piping spool 2SP068S023 as identified by engineering
- _____
- _____
- _____
- _____

Pre-Pressure Test Review: ISI NA ANII NA

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 *DAK* *ENGR* Date 10-30-06
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 Az and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-19-06 to 10-30-06, 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.

RA [Signature] Commissions Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-30-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2MRCEX01
2. Item Description: Reactor Vessel
3. N-5 Data Package Number: 2RC01-1A
4. W.O. Number: 2919114
5. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Repair the Reactor Head vent to vessel weld IAW DFWO 2917539.
8. ☐ ISI Flaw
- NDE Method of Flaw Detection:
- Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

The attachment weld is being made with corrosion resistant weldment (Alloy 52) with Temperbead welding technique.
Reference ENG DF work order 2917539 for additional information.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1971 Edition 1973 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial HL Date 10/20/06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial HL Date 10/20/06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial HL Date 10/20/06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial HL Date 10/20/06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|----------|------------|----------|--------------|
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18. Planner HL 10/20/06 Printed Name: HERBERT L. GREEN
 Signature Date
19. ISI R.P. INDA 10/20/06 Printed Name: R.P. INDA Log Entry RPI
 Signature Date
20. ANII R.G. HOGSTROM 10-20-06 Printed Name: R.G. HOGSTROM
 Signature Date

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

As Required by the Provisions of the ASME Code Section XI

Owner: Arizona Public Service Company, et. al.

Date: 11/02/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2919114

3. Work Performed by: Westinghouse/PCI Energy Systems

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Reactor Vessel

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, PT Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|------------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Reactor Vessel | Combustion Engineering | 79173 | 22513 | 2MRCEX01 | 1979 | Repaired | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Repair the Reactor Head vent to vessel weld IAW DFWO 2917539.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

N-416-2 ☐

Other Pressure 22130 psi

Test Temperature 521 °F

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

FORM NIS-2 (Back)

Remarks: Repair the Reactor Head vent to vessel weld IAW DFWO 2917539, DIWO 2919114..

Pre-Pressured Test WO Review - ISI

RP Bondap

11-03-06

ANII

11-6-06

Certificate of Compliance

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date:

N/A

Signed:

D. Bondap

ENGR

Owner or Owner's Designee, Title

Date: 11-9-06

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-20-06 to 11-9-06, 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 Bondap

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date:

11-9-06

Page _____ of _____

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: 10/5/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2923221

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH: Chemical and Volumn Control System

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, --- Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 50388 | n/a | 2PCHNV363 | 1979 | Repaired | YES |
| Bonnet nuts | n/a | n/a | n/a | 2PCHNV363 | 2006 | Replacement | NO |
| Bonner studs | n/a | n/a | n/a | 2PCHNV363 | 2006 | Replacement | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Disassemble valve for replacement of bonnet studs & nuts.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure --- psi

Test Temperature --- °F

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

FORM NIS-2 (Back)

Remarks: WO# 2923221 for valve 2PCHNV363. Replaced the SA540 Gr B-23 studs with SA564 Gr. 630 material to enhance corrosion ability. Also replaced bonnet nuts with like for like to contain contamination.

Pre-Pressured Test WO Review – ISI N/A
ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: PPHnday, ISI Engineer Date: 10-18-2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-7-06 to 10-18-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS Hferton
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 10-18-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2JSGAHV0184
2. Item Description: 12"-900# CCI Atmospheric Dump Valve
3. N-5 Data Package Number: 2SG04-9
4. W.O. Number: 2929778
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disassemble valve and recondition to correct sticking observed during valve stroking.
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the ASME III presure boundary. Plug is being replaced to expedite valve reassembly.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☐ YES ☒ NO

Initial PMG Date 10-13-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial PMG Date 10-13-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial PMG Date 10-13-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial PMG Date 10-13-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|--------------|------------|----------|--------------|
| Valve | N/A | 21408-4-1 | N/A | N/A |
| Plug | APN 45021282 | 1 | B220609 | WO 2798871 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner David M. Goodlet 10-13-06 Signature Date Printed Name: DAVID M. GOODLET
19. ISI R. INDAP 10-13-06 Signature Date Printed Name: R. INDAP Log Entry
20. ANII R.G. Hogstrom 10-13-06 Signature Date Printed 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: 10-16-2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2929778

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: SG: Main Steam System

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | B&W | 21408-4-1 | N/A | 2JSGAHV0184 | 1980 | Repaired | YES |
| Plug removed | CCI | N/A | N/A | HT 28672 | 1994 | Replaced | YES |
| Plug installed | CCI | 1 | N/A | HT 220609 | | Replacement | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Disassembled and reconditioned valve to correct sticking condition when stroked.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure psi

Test Temperature °F

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

FORM NIS-2 (Back)

Remarks: WO# 2929778 for valve 2JSGAHV0184 . Disassembled and reworked valve to correct sticking observed during valve stroking. The plug is being replaced to expedite valve reassembly. The removed plug will be reworked and saved as a spare. The installed plug came from 1JSGBHV0185 and was reconditioned under wo# 2798871 as a spare.

Pre-Pressured Test WO Review – ISI N/A

ANII N/A

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: RP Indap, ISI Engineer Date: 10/17/2006
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-13-06 to 10-17-06, 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.

25 f. m.
Inspectors Signature

Commissions: NB 9685 'N' 'T' AZ264
National Board, State, Province, and Endorsements

Date: 10-17-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 3

1. Component ID 2PSIBL112
2. Item Description: Safety Injection (SI) piping.
3. N-5 Data Package Number: 2SI09-3
4. W.O. Number: 2932771
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace a section of pipe 2PSIBL112, spool N00D, down stream of 2JSIBUV0667 in accordance with instructions provided in work order 2932771.
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
The pipe is being replaced due to indications must likely due to cavitation.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial MLK Date 10-15-06 If required, include a step in the W.O. to perform Preservice Inspection

5. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
- Initial MLK Date 10-15-06 If required, include a step in the W.O. for ISI & ANII Inspection.
- Initial MLK Date 10-15-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.
- Initial MLK Date 10-15-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------|--------------|------------|----------|--------------|
| 2PSIBL112 | APN 43510414 | N/A | 474900 | 1153105 |
| 2PSIBL112 | APN 43540474 | N/A | F8297 * | 1153105 |
| 2PSIBL112 | APN 00092827 | N/A | G9 | 1153264 |
| | | | * | 1156356 |
| | | | | |
| | | | | |
| | | | | |

18. Planner Martin J. Sullivan 10-15-06 Printed Name: Martin J. Sullivan
Signature Date
19. ISI F. Poteet 10/15/06 Printed Name: F. POTEET Log Entry 78
Signature Date
20. ANII R.C. Hogstrom 10-15-06 Printed Name: R.C. HOGSTROM
Signature Date

ASME SECTION XI - REPAIR / REPLACEMENT

Page 2 of 3

1. Component ID 2JSIBUV0667
2. Item Description: Safety Injection (SI) valve
3. N-5 Data Package Number: 2SI09-3
4. W.O. Number: 2932771
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace valve body of 2JSIBUV0667 in pipe 2PSIBL112 spool N00D in accordance with instructions provided in work order 2932771
8. ☐ ISI Flaw N/A NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
The valve body is being replaced due to indications most likely caused by cavitation.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☒ YES ☐ NO

Initial ML Date 10-15-06 If required, include a step in the W.O. to perform Preservice Inspection

5. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
- Initial ML Date 10-15-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial ML Date 10-15-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial ML Date 10-15-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-------------|--------------|------------|----------|--------------|
| 2JSIBUV0667 | APN 00050507 | 42 | 36240 | MR 1157625 |
| | | | | |
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18. Planner Martin J Sullivan 10-15-06 Printed Name: Martin J Sullivan
Signature Date
19. ISI F. POTEET 10/15/06 Printed Name: F. POTEET Log Entry 78
Signature Date
20. ANII R. G. HOGSTROM 10-15-06 Printed Name: R. G. HOGSTROM
Signature Date

ASME SECTION XI - REPAIR / REPLACEMENT

Page 3 of 3

1. Component ID 2-SI-112-H-00A
2. Item Description: Safty Injection (SI) pipe support.
3. N-5 Data Package Number: 2SI09-3
4. W.O. Number: 2932771
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Remove and install Dummy pipe on pipe support 2-SI-112-H-00A to support pipe replacement on pipe line 2PSIBL112, spool N00D in accordance with instructuions provided in work order 2932771.
8. ☐ ISI Flaw NA NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Rewelding of this weld is due to replacement of the SI pipe sectioin with indications most likely due to cavitation.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☒ YES ☒ NO
NA 10/15/06
Initial NA Date 10-15-06 If required, include a step in the W.O. to perform Preservice Inspection

5. ASME Section XI Pressure Test Required: ☐ YES ☒ NO
Initial NA Date 10-15-06 If required, include a step in the W.O. for ISI & ANII Inspection.

- Initial NA Date 10-15-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

- Initial NA Date 10-15-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|----------------------|-----------------|------------|--------------|----------------|
| <u>2SI-112-H-00A</u> | <u>43510091</u> | <u>N/A</u> | <u>35662</u> | <u>1154880</u> |
| | | | | |
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18. Planner Martin J. Sullivan 10-15-06
Signature _____ Date _____ Printed Name: Martin J. Sullivan
19. ISI F. Poteet 10/15/06
Signature _____ Date _____ Printed Name: F. POTEET Log Entry NA
20. ANII R.G. HOGSTROM 10-15-06
Signature _____ Date _____ Printed 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 10/31/06
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 2932771
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 85354-7529 Expiration Date N/A
Address

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | SN 57646 | NA | 2JSIBUV667 | 1980 | Replaced | Yes |
| Valve | Borg-Warner | SN 42 | NA | 2JSIBUV667 | 1997 | Replacement | Yes |
| Pipe | Bechtel Power | NA | NA | 2SIB112N00D | 1981 | Replaced | Yes |
| Pipe | NA | NA | NA | 2SIB112N00D | 2006 | Replacement | No |
| Component Support | Bechtel Power | NA | NA | 2SI112H00A | 1981 | Replaced | Yes |
| Component Support | NA | NA | NA | 2SI112H00A | 2006 | Replacement | No |
| | | | | | | | |

7. Description of Work {note remarks on Page 2}

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

Other ☐ Pressure 1896 psi Test Temp. 94.8 °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 2932771 was utilized to replace the valve body on 2ISIBU0667 and the pipe and support down stream

Pre-Pressure Test Review: ISI _____ NA _____ ANII _____ NA _____

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 *DBL* *ENR* Date 10-31-06
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 Az and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-15-06 to 10-31-06, 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.

DBL *ENR* Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-31-06

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

Manufactured and certified by BW/IP INTERNATIONAL INC PUMP DIV. LOS ANGELES OPERATION 2300 E VERNON AVE. VERNON CA 90058
(name and address of NPT Certificate Holder)

and purchased for ARIZONA PUBLIC SERVICE CO. PVNGS OPERATIONS, 4 MI. S. WINTERSBURG RD., WINTERSBURG AZ. 85343
(name and address of Purchaser)

Location of installation ARIZONA PUBLIC SERVICE CO. PVNGS OPERATIONS, 4 MI. S. WINTERSBURG RD., WINTERSBURG AZ. 85343
(name and address)

Part: 76436, REV.B ASME SA182, F316 75,000 PSI N/A 1997
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

ASME Code, Section III, Division 1: 1974 WINTER 1975 2 N/A
(edition) (addenda date) (class) (Code Case no.)

Lubricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)

Remarks: BW/IP JOB NO. 96SN6551 PARTNAME: BODY

HYDROSTATIC TESTING NOT PERFORMED

NAMEPLATE ATTACHED BY WIRE

PRESSURE CLASS: 1500#

Min. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A

When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| 1) <u>224800 SN42</u> ✓ | <u>N/A</u> |
| 2) <u>224800 SN51</u> | <u>N/A</u> |
| 3) | |
| 4) | |
| 5) | |
| 6) | |
| 7) | |
| 8) | |
| 9) | |
| 10) | |
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| 23) | |
| 24) | |
| 25) | |

| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| (26) | |
| (27) | |
| (28) | |
| (29) | |
| (30) | |
| (31) | |
| (32) | |
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| (43) | |
| (44) | |
| (45) | |
| (46) | |
| (47) | |
| (48) | |
| (49) | |
| (50) | |

Pressure 2050/3600 psi. Temp. 350/100 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

Additional information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11. (2) Information in items 2 and 3 on this Data Report is on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. 324800 SM42 through 3248

CERTIFICATION OF DESIGN

Design certified by N/A P.E. State N/A Reg. no. 1
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. no. 1
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that ~~SEE~~ (these) BODY
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1999

Date 1-23-97 Name BN/IP INTERNATIONAL, INC. Signed Robert J. Costello
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of California
CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. FACTORY MUTUAL ENGINEERING ASSOCIATION

of NORWOOD, MASS. have inspected these items described in this Data Report on 1/24/97, and state to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment or in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage of any kind arising from or connected with this inspection.

Date 1/24/97 Signed Robert J. Costello Commissions "NBI-15" CA 1864
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) and state or pro)

Page 1 of 1

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: 10/31/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2932920

3. Work Performed by: Arizona Public Service Co.

Type of Code Stamp None

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

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Safety Injection

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 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 Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or NO) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg-Warner | 57646 | N/A | 2JSIBUV667 | 1980 | Replaced | YES |
| Valve Body | Borg-Warner | SN 42 | N/A | 2JSIBUV667 | 1983 | Replacement | YES |
| Bonnet | Borg-Warner | 56060-12 | N/A | 2JSIBUV667 | 2004 | Replacement | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: (note remarks on page 2)

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-2 ☐

Other ☐ Pressure 1896 psi

Test Temperature 94.8 °F

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

FORM NIS-2 (Back)

9. Remarks This Work Order {2932920} was utilized to install a modification kit in a new valve body. This valve was installed under WO 2932771

Pre-Pressure Test Review: ISI _____ NA _____ ANII _____ NA _____

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 RLB ENG Date 10/31/06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ARIZONA and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-23-06 to 10-31-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RLB Signature Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-31-06

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

**As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production**

Pg. 1 of 2

Manufactured and certified by BN/IP INTERNATIONAL INC PUMP DIV. LOS ANGELES OPERATION 2300 E VERNON AVE. VERNON CA 90058

(name and address of NPT Certificate Holder)

Insured for ARIZONA PUBLIC SERVICE CO. PVNGS OPERATIONS, 4 MI. S. WINTERSBURG RD., WINTERSBURG AZ. 85343

(name and address of Purchaser)

Location of installation ARIZONA PUBLIC SERVICE CO. PVNGS OPERATIONS, 4 MI. S. WINTERSBURG RD., WINTERSBURG AZ. 85343

(name and address)

Type: 76436, REV.B ASME SA182, F316 75,000 PSI N/A 1997
(drawing no.) (mat'l spec. no.) (tensile strength) (CRM) (year built)

SME Code, Section III, Division 1: 1974 WINTER 1975 2 N/A
(edition) (addenda date) (class) (Code Case no.)

Lubricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)

Remarks: BN/IP JOB NO. 96SN6551 PARTNAME: BODY

HYDROSTATIC TESTING NOT PERFORMED

NAMEPLATE ATTACHED BY WIRE

PRESSURE CLASS: 1500#

Min. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|---------------------------------------|---|
| (1) 324800 SN42 ✓ | N/A | (26) | |
| (2) 4800 SN51 | N/A | (27) | |
| (3) | | (28) | |
| (4) | | (29) | |
| (5) | | (30) | |
| (6) | | (31) | |
| (7) | | (32) | |
| (8) | | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
| (11) | | (36) | |
| (12) | | (37) | |
| (13) | | (38) | |
| (14) | | (39) | |
| (15) | | (40) | |
| (16) | | (41) | |
| (17) | | (42) | |
| (18) | | (43) | |
| (19) | | (44) | |
| (20) | | (45) | |
| (21) | | (46) | |
| (22) | | (47) | |
| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

Pressure 2050/3600 psi. Temp. 350/100 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

Additional information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11. (2) Information in items 2 and 3 on this Data Report on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. 324800 SH42 through 3:

CERTIFICATION OF DESIGN

Design certified by N/A P.E. State N/A Reg. no. _____
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. no. _____
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that ~~THE~~ (these) BODY
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1999

Date 1-23-97 Name BN/IP INTERNATIONAL INC. Signed Robert J. Conville
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
CALIFORNIA and employed by ABERDEEN MUTUAL INS. CO. FACTORY MUTUAL ENGINEERING ASSOCIATION
 of NORWOOD, MASS. have inspected these items described in this Data Report on 1/24/97, and state
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Co
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment
 in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property
 loss of any kind arising from or connected with this inspection.

Date 1/24/97 Signed Robert J. Conville Commissions "NBI-15" CA 186
(Authorized Inspector) (Natl. Bd. Incl. endorsements) and state of

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 S. Saunders St., Raleigh, NC 27603
(name and address of NPT Certificate Holder)
2. Manufactured for Arizona Public Service, P. O. Box 52034, Phoenix, AZ 85072
(name and address of purchaser)
3. Location of installation APS - Palo Verde Nuclear Station, 5801 S. Wintersburg Rd., Tonopah, AZ 85354
(name and address)
4. Type 306FCB3-010 & 011* SA182, F316 N/A N/A 2004
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1974 Summer, 1975 2 None
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Bonnet for 2" 1500# Y-Globe Valve (Qty. 2)

*Revision A

S. O. 27694

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| (1) <u>56060-11</u> | <u>N/A</u> |
| (2) <u>56060-12</u> | <u>N/A</u> |
| (3) | |
| (4) | |
| (5) | |
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| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| (26) | |
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| (49) | |
| (50) | |

10. Design pressure 2050 psi. Temp. 350 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. 56060-11 through 56060-12

CERTIFICATION OF DESIGN

Design specifications certified by _____ P.E. State _____ Reg. no. _____
(when applicable)

Design report* certified by _____ P.E. State _____ Reg. no. _____
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part(s)
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1563 Expires November 26, 2006

Date 4/22/04 Name Flowserve Corporation Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF 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 North Carolina and employed by HSB CT
of Hartford, CT have inspected these items described in this Data Report on 4-22-04, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
or loss of any kind arising from or connected with this inspection.

Date 4-30-04 Signed [Signature] Commissions NC 1083
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. end no.)

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of

1. Component ID 2SI100H020
- 2.. Item Description: 1/4 KIP Snubber
3. N-5 Data Package Number: 2SI09-2
4. W.O. Number: 2933793
6 hr 10/25/06
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the snubber due to failed snubber test.
8. ☐ ISI Flaw. NDE Method of Flaw Detection:
Report Number:

9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

The snubber failure is most likely due to pipe vibration not faulty snubber design. A "like for like" replacement is being performed.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III NF Cl 2, 1974 Edition Winter 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III NF Cl 2, 1974 Edition Winter 1975 Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: *YES* ☒ YES ☒ NO *RCB* *PER TEL CON* *W/INSP* *10/25/06* *LINED OUT IN CRACK*

Initial DWS Date 10/25/2006 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial DWS Date 10/25/2006 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DWS Date 10/25/2006 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial DWS Date 10/25/2006 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-----------------|------------|---------------------------|----------|-----------------------------|
| 1/4 KIP Snubber | 1801104-05 | 18450 <i>Per 10/25/06</i> | N/A | WO #2665816 <i>10/25/06</i> |
| | | 23672 | | 1156764 |
| | | | | |
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18. Planner *DW Shaffer* *10/25/06* Signature Date Printed Name: David Shaffer
19. ISI *DW Shaffer* *PER TEL CON* *R. INOAR* *10/25/06* Signature Date Printed Name: DAVID SHAFER Log Entry
20. ANII *R.G. Hogstrom* *10-25-06* Signature Date Printed 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: 10/25/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2933793

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Safety Injection - "SI"

5. (a) Applicable Construction Code ASME Section III NF, Class 2 1974 Edition, Winter 1976 Addenda, 1644-5 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| 1/4 KIP Snubber | Pacific Sceintific | 38177 | N/A | 2SI100H020 | 1980 | Replaced | YES |
| 1/4 KIP Snubber | Pacific Sceintific | 23672 | N/A | 2SI100H020 | 1981 | Replacement | YES |
| | | | | | | | |
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7. Description of Work: Replaced the Snubber due to failed snubber test

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO#2933793 removed snubber S/N 38177 for testing and failed. The snubber was replaced with a new snubber S/N 23672.

Pre-Pressured Test WO Review – ISI _____

ANII _____

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A

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

Signed: _____ 151 ENG Date: 10/28/06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-25-06 to 10-28-06, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 10-28-06

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PRCEV243
2. Item Description: Gate valve
3. N-5 Data Package Number: 2RC01-1A
4. W.O. Number: 2934186
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Bonnet replacement
8. ☐ ISI Flaw PA NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Replacing the bonnet due to damage on the sealing surface.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial MLL Date 10-22-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial MLL Date 10-22-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MLL Date 10-22-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial MLL Date 10-22-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|--------------|------------|----------|--------------|
| Bonnet | APN 45060169 | 11 | N/A | MR 1155343 |
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18. Planner Martin Sullivan 10-22-06 Signature Date Printed Name: Martin Sullivan

19. ISI Ramakant Indap per telecon MLL 10-22-06 Signature Date Printed Name: Ramakant Indap Log Entry 11-3-06 DNH

20. ANII Robert Hogstrom per telecon MLL 10-22-06 Signature Date Printed Name: Robert 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 11/03/06
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 2934186
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 85354-7529 Expiration Date N/A
Address

4. Identification of System RC

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 51716 | NA | 2PRCEV243 | 1979 | Repaired | Yes |
| Bonnet | Borg Warner | 11 | NA | NA | 1992 | Replacement | Yes |
| | | | | | | | |
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7. Description of Work Replaced the disc. (* note remarks on Page 2)

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

Other ☐ Pressure 2130 psi Test Temp. 521 °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 2934186 was performed to replace the bonnet on valve 2PRCEV243

Pre-Pressure Test Review: ISI DBH 11-3-06 ANII 11-6-06

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed DBH ENYR Date 11-9-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ARIZONA and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-22-06 to 11-9-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RS Lytton Commissions Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 11-9-06

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTIFICATION
NUCLEAR PARTS AND APPURTENANCES*
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

E.O. No. 60203801
QUALITY DOCUMENTS
PAGE 4 of 22
Pg. 1 of

1. Manufactured and certified by EM/IP INTERNATIONAL, INC. PUMP DIV. LOS ANGELES OPERATIONS 2300 E. VERNON AVE., VERNON CA 90058
(name and address of NPT Certificate Holder)
2. Manufactured for ARIZONA PUBLIC SERVICE 4 MI SO. WINTERSBURG, WINTERSBURG, ARIZONA 85343
(name and address of Purchaser)
3. Location of installation ARIZONA PUBLIC SERVICE 4 MI SO. WINTERSBURG, ARIZONA 85343
(name and address)
4. Type: 73666 REV. D SA351 GR CP8M 70,000 PSI N/A 1992
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
6. ASME Code, Section III, Division 1: 1974 WINTER 1975 1 N/A
(edition) (addenda date) (class) (Code Case no.)
8. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: EM/IP JOB NO. 901-L-2137 PART NAME - ROCKET MACHINED
HYDROSTATIC TESTING NOT PERFORMED.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|---------------------------------------|---|
| (1) RS 221260 SN 10 | N/A | (26) | |
| (2) RS 221260 SN 11 ✓ | N/A | (27) | |
| (3) RS 221260 SN 12 | N/A | (28) | |
| (4) RS 221260 SN 13 | N/A | (29) | |
| (5) RS 221260 SN 14 | N/A | (30) | |
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| (25) | | (50) | |

10. Design pressure 3628/2485 psi. Temp. 100/650 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. ES 221260 SM10 through ES 221260 SM14

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that ~~these~~ (these) BORNET MACHINED conforms to the rules of construction of the ASME Code, Section II, Division 1.

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1993

Date 20 March 1992 Name BN/IP INTERNATIONAL, INC. Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF 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 CALIFORNIA and employed by ARMSTRONG MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of ROXBURY, MASS. have inspected these items described in this Data Report on MARCH 2, 1992, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 3/2/92 Signed [Signature] Commissions 1275 Ch.
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PSIEV124
- 2.. Item Description: Check Valve
3. N-5 Data Package Number: 2RC01-3B
4. W.O. Number: 2934428
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disc assembly replacement.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Disc replacement is due to damage to the sealing area of the disc, no pressure boundry flaws.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial MJC Date 10-22-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial MJC Date 10-22-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MJC Date 10-22-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial MJC Date 10-22-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|------------------------|--------------|---------------|----------|--------------|
| Disc and stud assembly | APN 45021077 | RS 212325 - 2 | N/A | MR 1155324 |
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18. Planner Martin Sullivan 10-22-06 Signature Martin Sullivan Date 10-22-06 Printed Name: Martin Sullivan
19. ISI Fred Potcet per telecom MJC 10-22-06 Signature Fred Potcet Date 10-22-06 Printed Name: Fred Potcet Log Entry DDH
20. ANII Bob Hogstrom per telecom MJC 10-22-06 Signature Bob Hogstrom Date 10-22-06 Printed 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 11/03/06
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 2934428
Address Work Order Number

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

5801 S. Wintersburg Rd., Tonopah, Az 85354-7529 Authorization No. N/A
Address

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

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 31973 | NA | 2PSIEV124 | 1978 | Repaired | Yes |
| Disc - removed | Borg Warner | 5 | NA | Code 2C18 | 1978 | Replaced | Yes |
| Disc - installed | Borg Warner | 212325-2 | NA | NA | 1991 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replaced the disc. { note remarks on Page 2 }

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 2934428 was utilized to replace the disc with a new one.

Pre-Pressure Test Review: ISI NA ANII NA

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed DBH - ENGR Date 11-3-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-22-06 to 11-3-06, 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.

DBH Inspector's Signature Commissions Az. 264
National Board, State, Province, and Endorsements

Date 11-3-06

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by BW/IP INTERNATIONAL INC. PUMP DIV. LOS ANGELES OPERATIONS, 7300 E. VERNON AVE. VAN
(Name and address of NPT Certificate Holder)
2. Manufactured for ARIZONA PUBLIC SERVICE 4 MILES SOUTH OF WINTERSBURG, WINTERSBURG ARIZONA 85343
(Name and address of Purchaser)
3. Location of installation ARIZONA PUBLIC SERVICE 4 MILES SOUTH OF WINTERSBURG, WINTERSBURG ARIZONA 85343
(Name and address)
4. Type: 76864 REV.B SA-182 F316 75,000 PSI N/A 1991
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1974 WINTER 1975 1 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: BW/IP JOB NO. 901-L-2120 PART NAME- DISK AND STUD ASSEMBLY

HYDROSTATIC TESTING NOT PERFORMED. IDENTIFICATION IS PER NCA-8230 IN LIEU OF NAMEPLATE.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|---------------------------------------|---|
| (1) <u>212325-1</u> | <u>N/A</u> | (26) <u>212325-26</u> | <u>N/A</u> |
| (2) <u>212325-2</u> | <u>N/A</u> | (27) <u>212325-27</u> | <u>N/A</u> |
| (3) <u>212325-3</u> | <u>N/A</u> | (28) <u>212325-28</u> | <u>N/A</u> |
| (4) | | (29) <u>212325-29</u> | <u>N/A</u> |
| (5) | | (30) <u>212325-30</u> | <u>N/A</u> |
| (6) | | (31) <u>212325-31</u> | <u>N/A</u> |
| (7) | | (32) <u>212325-32</u> | <u>N/A</u> |
| (8) | | (33) <u>212325-33</u> | <u>N/A</u> |
| (9) | | (34) <u>212325-34</u> | <u>N/A</u> |
| (10) | | (35) <u>212325-35</u> | <u>N/A</u> |
| (11) | | (36) <u>212325-36</u> | <u>N/A</u> |
| (12) | | (37) <u>212325-37</u> | <u>N/A</u> |
| (13) | | (38) <u>212325-38</u> | <u>N/A</u> |
| (14) | | (39) <u>212325-39</u> | <u>N/A</u> |
| (15) | | (40) <u>212325-40</u> | <u>N/A</u> |
| (16) | | (41) <u>212325-41</u> | <u>N/A</u> |
| (17) | | (42) <u>212325-42</u> | <u>N/A</u> |
| (18) | | (43) <u>212325-43</u> | <u>N/A</u> |
| (19) | | (44) <u>212325-44</u> | <u>N/A</u> |
| (20) | | (45) <u>212325-45</u> | <u>N/A</u> |
| (21) | | (46) <u>212325-46</u> | <u>N/A</u> |
| (22) | | (47) <u>212325-47</u> | <u>N/A</u> |
| (23) | | (48) <u>212325-48</u> | <u>N/A</u> |
| (24) | | (49) <u>212325-49</u> | <u>N/A</u> |
| (25) | | (50) <u>212325-50</u> | <u>N/A</u> |

10. Design pressure 3803-2500 psi. Temp. 100-650 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(12/88)

This form (E000401) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. 212315-1 through 212315-2

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that ~~the~~ (these) DISK AND STUD ASSEMBLY
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1131 Expires [Signature]Date 28 MARCH 91 Name BE/TP INTERNATIONAL INC. Signed JUNE 10, 1993
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF 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 CALIFORNIA
and employed by AMERIGHT MUTUAL INS. CO. FACTORY MUTUAL SYSTEMof ROXBORO, MASS. have inspected these items described in this Data Report on MAR. 29, 1991, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 3/29/91 Signed [Signature] Commissions 1275 CA.
(Authorized Inspector) (Nat'l. Bd. Incl. endorsements and state or prov. and no.)P. O. No. 100203779
QUALITY DOCUMENTS
PAGE 249 of 873

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PSIBV206
2. Item Description: 24" - 300 LB Borg Warner Swing Check Valve; model 77900
3. N-5 Data Package Number: 2SI01-7B
4. W.O. Number: 2934548
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Disassemble valve for inspection under the ASME Section XI program.
8. ☐ ISI Flaw
- NDE Method of Flaw Detection: N/A
- Report Number: N/A
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a failure of the ASME III pressure boundary. The disc & stud assembly is being replaced to expedite valve reassembly.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 10-28-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial DMG Date 10-28-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 10-28-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial DMG Date 10-28-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|-------------------|--------------|------------|----------|--------------|
| Valve | N/A | 50195 | N/A | N/A |
| Disc & stud Ass'y | APN 45020815 | 209730 | N/A | MR 1158018 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner David M. Goodlet 10-28-06 Printed Name: DAVID M. GOODLET
Signature Date

19. ISI DOUG HANSEN 10/28/06 Printed Name: DOUG HANSEN Log Entry
Signature Date

20. ANII ROBERT HAGSTROM 10-28-06 Printed Name: ROBERT HAGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/03/06
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 2934548
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 85354-7529 Expiration Date N/A
Address

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|------------------|----------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Valve | Borg Warner | 50195 | NA | 2PSIBV206 | 1979 | Repaired | Yes |
| Disc - removed | Borg Warner | NA | NA | NA | 1979 | Replaced | Yes |
| Disc - installed | Borg Warner | 209730 | NA | NA | 1991 | Replacement | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replaced the disc. { note remarks on Page 2 }

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 2934548 was utilized to replace the disc with a new one.

Pre-Pressure Test Review: ISI NA ANII NA

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 7311-ENR Date 11-3-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ARIZONA and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-28-06 to 11-3-06, 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.

7311-ENR Commissions Az. 264
Inspector's Signature National Board, State, Province, and Endorsements
Date 11-3-06

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES*
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

P. O. No. 33207693
QUALITY DOCUMENTS
PAGE 26 of 42
Pg. 1 of 2

1. Manufactured and certified by EM/TP INTERNATIONAL INC. POMP CITY LOS ANGELES OPERATIONS 1200 E. WESCH AVENUE, VERNON, CA.
(Name and address of NPT Certificate Holder) 90058
2. Manufactured for ARIZONA PUBLIC SERVICE 4 MILES SOUTH OF WINTERSBURG, WINTERSBURG ARIZONA 85343
(Name and address of Purchaser)
3. Location of installation ARIZONA PUBLIC SERVICE 4 MILES SOUTH OF WINTERSBURG, WINTERSBURG ARIZONA 85343
(Name and address)
4. Type: 76914011 REV A SA-182 GR. F316 75,000 PSI N/A 1991
(Drawing no.) (Mat'l. spec. no.) (Bolted strength) (CRN) (Year built)
5. ASME Code, Section III, Division 1: 1974 WINTER 1975 2 N/A
(Edition) (License date) (Class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(Inch.)
7. Remarks: EM/TP JOB NO. 901-L-2017 PART NAME- DISK/STUD ASST.
HYDROSTATIC TESTING NOT PERFORMED. IDENTIFICATION IS PER NCA-8730 IN LIEU OF NAMEPLATE.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|---------------------------------------|---|
| (1) <u>205730</u> | <u>N/A</u> | (25) | |
| (2) | | (27) | |
| (3) | | (28) | |
| (4) | | (29) | |
| (5) | | (30) | |
| (6) | | (31) | |
| (7) | | (32) | |
| (8) | | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
| (11) | | (36) | |
| (12) | | (37) | |
| (13) | | (38) | |
| (14) | | (39) | |
| (15) | | (40) | |
| (16) | | (41) | |
| (17) | | (42) | |
| (18) | | (43) | |
| (19) | | (44) | |
| (20) | | (45) | |
| (21) | | (46) | |
| (22) | | (47) | |
| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

10. Design pressure 780/550 psi. Temp. 100/400 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. 209730

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)
Design report certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this DESIGN/STAMP ASSY
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1993
Date 30 April 91 Name EN/TP INTERNATIONAL INC. Signed [Signature]
NPT Certificate Holder Authorized representative

CERTIFICATE OF 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 CALIFORNIA and employed by EN/TP INTERNATIONAL INC. CO. FACTORY INITIAL SYSTEM of WHEATWOOD, ILL. have inspected these items described in this Data Report on JUN 1, 1991, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 5/1/91 Signed [Signature] Commissions 1275 CA.
(Authorized Inspector) (State, Dist. No., endorsement and state or prov. and no.)

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 2PRCEL001
- 2.. Item Description: 6"-2500# RFWN flange for Pressurizer PSV RC-200.
3. N-5 Data Package Number: 2RC03-2 4. W.O. Number: 2937265
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Machine the flex gasket sealing area of flange iaw drawing N001-607-31 note 4.
8. ☐ ISI Flaw NDE Method of Flaw Detection: n/a
Report Number: n/a
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not an ASME III pressure boundary failure. The machining of sealing surface area to remove approx. 0.032" raised area x 1/8" wide is to return flange surface back to configuration iaw drawing N001-607-31.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec.III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda

14. Preservice Inspection Required: ☒ YES ☒ NO
Initial DMG Date 10-30-06 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO
Initial DMG Date 10-30-06 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 10-30-06 16. Include a step in the W.O. to verify NIS-2 Form has been completed by ISI & ANII prior to approving INP525 Status.

Initial DMG Date 10-30-06 17. Include a step in the W.O. to record below all applicable numbers for replacement items.

| Item ID | Part No. | Serial No. | Heat No. | MR/PO/WO No. |
|---------|----------|------------|----------|--------------|
| Flange | N/A | N/A | N/A | N/A |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

18. Planner David M. Goodlet Signature David M. Goodlet Date 10/30/06 Printed Name: DAVID M. GOODLET

19. ISI R.L. Brown Signature R.L. Brown Date 10/30/06 Printed Name: R.L. BROWN Log Entry RLB

20. ANII R.G. Hogstrom Signature R.G. Hogstrom Date 10-30-06 Printed 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: 10/30/2006

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

Sheet: 1 of 2

2. Plant: Palo Verde Nuclear Generating Station

Unit: 2

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529

Work Order Number 2937265

3. Work Performed by: Arizona Public Service

Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC: Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1975 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Item | Name of Manufacture | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired or Replacement | ASME Code Stamped (Yes or No) |
|--------------|---------------------|-------------------------|--------------------|----------------------|------------|-------------------------|-------------------------------|
| Flange | N/A | N/A | N/A | 2PRCEL001 | 1980 | Repaired | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Machine the flex gasket surface for RC-PSV-200 inlet flange IAW drawing N001-607-31

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

N-416-2 ☐ Other Pressure _____ psi

Test Temperature _____ °F

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

FORM NIS-2 (Back)

9. Remarks: WO# 2937265 for 2PRCEL001, the inlet flange to RC-PSV-200. Machined the surface to remove a raised area approx. 0.032" high x 1/8" wide to restore IAW drawing N001-607-31.

Pre-Pressured Test WO Review – ISI _____

ANII _____

Certificate of Compliance

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

Type Code Symbol Stamp _____ N/A _____

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

Signed: *Wally J. Smith* ISI ENGINEER Date: 11-3-06
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 10-30-06 to 11-3-06, 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.

Wally J. Smith
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 11-3-06