

United States Nuclear Regulatory Commission Official Hearing Exhibit
 Energy Nuclear Operations, Inc.
 (Indian Point Nuclear Generating Units 2 and 3)

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ENT000057
 Submitted: March 28, 2012

FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 2R19

| NUMBER | EXAM POINT | WORK REQUEST | WORK ORDER | DESCRIPTION | LOCATION | CONDENSATE | | | | PIPE SIZE | REMARKS | |
|--------|-------------------------------|--------------|------------|---|---|----------------|------------|-------|-----------|-----------|---------|--|
| | | | | | | SCAFFOLD | INSULATION | PAINT | PIPE PREP | | | |
| 1 | CD-72 FE | 147552 | 173441 | Inspect piping downstream of flow element CD-72-FE. Inspect 2 pipe diameters. | TB ELEV. 21 FT off BFP-21 suction. | Y | Y | N | Y | SK-83 | 24" | CHECWORKS - Ranked high on the Service Life Report |
| 2 | CD-75N | 147554 | 173444 | Nozzle. Insoect nozzle | TB ELEV. 21 FT off BFP-22 suction. | Y | Y | N | Y | SK-84 | 24" | CHECWORKS - Ranked high on the Service Life Report |
| 3 | CD-37N | 147556 | 173447 | FWH 24A | TB ELEV. 42 FT off FWH 24A. | Y | Y | N | Y | SK-81 | 14" | CHECWORKS - Ranked high on the Service Life Report |
| 4 | CD-VALVE-CD-18 (CD-31P-1 D/S) | 147559 | 173456 | | | DESCOPE | | | | | | |
| 5 | CD-34N | 147560 | 173457 | Nozzle. Insoect nozzle | TB ELEV. 32 FT off FWH 25B. | Y | Y | N | Y | SK-82 | 14" | CHECWORKS - Ranked high on the Service Life Report |
| 6 | CD-21N | 147562 | 173461 | Nozzle. Insoect nozzle | TB ELEV. 41 FT off FWH 24B. | Y | Y | N | Y | SK-81 | 14" | RE-INSPECTION (TRENDING) |
| 7 | CD-108N | 167217 | 198370 | Inspect Nozzle on 22B FWH. | TB ELEV. 39-6" off FWH 22B. | Y | Y | N | Y | SK-80A | 14" | CHECWORKS - Ranked high on the Service Life Report |
| 8 | CD-37 | 147597 | 173752 | Inspect elbow plus upstream & downstream extension. Elbow plus 6 inches on either side of the elbow weld. | TB ELEV. 41 FT off FWH 24A. | Y | Y | N | Y | SK-81 | 14" | RE-INSPECTION (TRENDING) |
| 9 | CD-58P | 147598 | 173751 | Inspect piping. Inspect 2 pipe diameters = 28 INCHES. | TB ELEV. 32 FT off FWH 25C. | Y | Y | N | Y | SK-82 | 14" | RE-INSPECTION (TRENDING) |
| 10 | CD-65P | 147600 | 173750 | Inspect piping upstream of valve FE-72. Inspect 2 pipe diameters. | TB ELEV. 21 FT off BFP-21 suction. Upstream of flow element FE-72 | Y | Y | N | Y | SK-83 | 24" | RE-INSPECTION (TRENDING) |
| 11 | CD-75 | 147602 | 173749 | | | DESCOPE | | | | | | |
| 12 | CD-9 | 147603 | 173747 | Inspect elbow plus upstream & downstream extension. Elbow plus 10 inches on either side of the elbow welds. | TB. Elev. 24ft. 6" | Y | Y | N | Y | SK-83 | 24" | RE-INSPECTION (TRENDING) |
| 13 | CD-31 | 147604 | 173746 | Inspect elbow plus upstream & downstream extension. Elbow plus 6 inches on either side of the elbow weld. | TB ELEV. 45 FT off FWH 25A. | Y | Y | N | Y | SK-82 | 14" | RE-INSPECTION (TRENDING) |

FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 2R19

| NUMBER | EXAM POINT | WORK REQUEST | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|-------------------|------------|--------------|------------|--|---|-----------------|------------|-------|-----------|---------|-----------|--|
| EXTRACTION | | | | | | | | | | | | |
| 14 | 3EXB-1 | 147606 | 173745 | Inspect elbow plus upstream & downstream extension. Elbow plus 6 inches on either side of the elbow weld. | TB Elev. 42ft- 2' off FWH 23B | Y | Y | N | Y | SK-2 | 20" | RE-INSPECTION (TRENDING) |
| 15 | 3EXB-1A | 147607 | 173753 | Inspect piping Downstream of valve elbow 3EXB-1. Inspect 2 pipe diameters = 40 inches. | TB Elev. 42ft- 2' off FWH 23B | Y | Y | N | Y | SK-2 | 20" | RE-INSPECTION (TRENDING) |
| 16 | 3EXB-9 | 147608 | 173754 | Inspect elbow plus upstream & downstream extension. Elbow plus 12 inches on either side of the elbow weld. | TB Elev. 39ft- 6' downstream of Valve-3EXB-VALVE -3EX-4 | Y | Y | N | Y | SK-2 | 28" | RE-INSPECTION (TRENDING) |
| 17 | 3EXB-14N | 167219 | 198367 | Inspect turbine extraxtion nozzle | Inside Condenser 22 off #22LP turbine | Y | Y | Y | Y | SK-2 | 28" | CHECWOKS - Ranked high on the Service Life Report |
| 18 | 3EXC-10 | 147609 | 173755 | Inspect elbow plus upstream & downstream extension. Elbow plus 12 inches on either side of the elbow weld. | TB Elev. 39ft- 6' downstream of Valve 3EXC-VALVE -PCV-1161 | Y | Y | N | Y | SK-3 | 28" | RE-INSPECTION (TRENDING) |
| 19 | 3EXC-8 | 147613 | 173758 | Inspect elbow plus upstream & downstream extension. Elbow plus 12 inches on either side of the elbow weld. | TB ELEV. 32 FT downstream of Valve 3EXC-VALVE -PCV-1161. | Y | Y | N | Y | SK-3 | 28" | RE-INSPECTION (TRENDING) |
| 20 | 3EXC-9 | 147617 | 173759 | | | DESCOPED | | | | | | |
| 21 | 4EXA-8A | 147621 | 173776 | | | DESCOPED | | | | | | |
| 22 | 4EX-D1 | 167242 | 198366 | Inspect 45 degrees (back to back) elbows 4EX-D1 & 4EX-D1-1. Also Inspect 2 inches on either side of the elbow welds. | TB Elev. 42ft- 2" upstream of #23A FWH | Y | Y | N | Y | SK-21A | 6" | CHECWOKS - Ranked high on the Service Life Report |
| 23 | 4EX-D1-1 | 167242 | 198366 | Inspect 45 degrees (back to back) elbows 4EX-D1 & 4EX-D1-1. Also Inspect 2 inches on either side of the elbow welds. | TB Elev. 42ft- 2" upstream of #23A FWH | Y | Y | N | Y | SK-21A | 6" | CHECWOKS - Ranked high on the Service Life Report |
| 24 | 4EX-D5 | 167243 | 198363 | Inspect 4x3 reducer. | TB ELEV. 38 3" Upstream of # 23 FWH in vicinity of LCV-1115 | Y | Y | N | Y | SK-21A | 6" | CHECWOKS - Ranked high on the Service Life Report/ Re-inspection |
| 25 | 4EX-D71 | 167244 | 198364 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB ELEV. 33 4". Downstream of #24C FWH | Y | Y | N | Y | SK-23A | 6" | RE-INSPECTION (TRENDING). |
| 26 | 5EX-29 | 147629 | 173488 | Inspect elbow plus piping upstream and downstream ~ 4ft total. | TB ELEV. 26 ft 6". Downstream of Heater Drain Pump 22 towards HTR DRN TK. | Y | Y | N | Y | SK-19 | 2" | RE-INSPECTION (TRENDING) |
| 27 | 3EXA-14N | 147633 | 173767 | | | DESCOPED | | | | | | |
| 28 | 3EXD-51 | 167241 | 198365 | Inspect TEE & Branch plus upstream & downstream extension. Inspect 4 inches on either side of welds. | TB Elev. 25ft- 0' In vicinity of Valve- LCV-1120A. | Y | Y | N | Y | SK-26B | 8" | RE-INSPECTION (TRENDING). |
| FEEDWATER | | | | | | | | | | | | |
| 29 | BFD-5 | 147635 | 173764 | Inspect elbow plus upstream & downstream extension. Elbow plus 10 inches on either side of the elbow weld. | TB Elev. 24ft. 5". Down stream of valve BFD-2-21 discharge of BFP No. 21. | Y | Y | N | Y | SK-71 | 20" | CHECWOKS - Ranked high on the Service Life Report |

FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 2R19

| NUMBER | EXAM POINT | WORK REQUEST | WORK ORDER | DESCRIPTION | LOCATION | | | | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|--------|-------------------------------|--------------|------------|--|----------|------------|-------|-----------|-----------|---------|--|---------|
| | | | | | SCAFFOLD | INSULATION | PAINT | PIPE PREP | | | | |
| 30 | BFD-7 | 147636 | 173763 | Inspect elbow plus upstream & downstream extension. | Y | Y | N | Y | SK-71 | 20" | CHECWOKRS - Ranked high on the Service Life Report | |
| 31 | BFD-14 | 147637 | 173491 | Inspect elbow plus upstream & downstream extension. Elbow plus 8 inches on either side of the elbow weld. | Y | Y | N | Y | SK-71 | 20" | CHECWOKRS - Ranked high on the Service Life Report | |
| 32 | BFD-17 | 147638 | 173760 | Inspect elbow plus upstream & downstream extension. Elbow plus 8 inches on either side of the elbow weld. | Y | Y | N | Y | SK-72 | 20" | CHECWOKRS - Ranked high on the Service Life Report | |
| 33 | BFD-18 | 147639 | 173761 | | DESCOPED | | | | | | | |
| 34 | BFD-22 | 147640 | 173762 | Inspect elbow plus upstream & downstream extension. Elbow plus 10 inches on either side of the elbow weld. | Y | Y | N | Y | SK-72 | 20" | CHECWOKRS - Ranked high on the Service Life Report | |
| 35 | BFD-27 | 147642 | 173784 | | DESCOPED | | | | | | | |
| 36 | BFD-27P | 147644 | 173794 | | DESCOPED | | | | | | | |
| 37 | BFD-28 | 147645 | 173795 | Inspect elbow plus upstream extension. Elbow plus 12 inches upstream of the elbow weld. | Y | Y | N | Y | SK-73 | 30" | CHECWOKRS - Ranked high on the Service Life Report | |
| 38 | BFD-28P | 147647 | 173798 | Inspect piping. Inspect 2 pipe diameters = 60 INCHES. | Y | Y | N | Y | SK-73 | 30" | CHECWOKRS - Ranked high on the Service Life Report | |
| 39 | BFD-49 | 147650 | 173802 | | DESCOPED | | | | | | | |
| 40 | BFD-41 | 147652 | 173803 | | DESCOPED | | | | | | | |
| 41 | BFD-VALVE-BFD-3-2 (BFD-34P-1) | 147653 | 173805 | Inspect piping. Inspect 2 pipe diameters = 60 INCHES. | Y | Y | N | Y | SK-73 | 18" | CHECWOKRS - Ranked high on the Service Life Report | |

FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 2R19

| NUMBER | EXAM POINT | WORK REQUEST | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | | | PAINT | | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|--------|-------------------------------|--------------|------------|---|--|-----------------|---|---|-------|-------|-----------|--|-----------|---------|
| | | | | | | INSULATION | Y | N | Y | N | | | | |
| 42 | BFD-35 | 147655 | 173792 | Inspect ELBOW, PIPE & ELBOW, including 10 inches Upstream and downstream of elbow welds. | TB, Elev. 34ft - 9". Off FWH 26A; D/S of Valve BFD-3-2 | Y | Y | N | Y | SK-73 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 43 | BFD-38P | 147656 | 173791 | Inspect piping. Inspect 2 pipe diameters = 36 INCHES. | TB, Elev. 34ft - 9". Off FWH 26A; D/S of Valve BFD-3-2 | Y | Y | N | Y | SK-73 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 44 | BFD-36 | 147657 | 173790 | Inspect ELBOW, PIPE & ELBOW, including 8 inches Upstream and downstream of elbow welds. | TB, Elev. 34ft - 9". Off FWH 26A; D/S of Valve BFD-3-2 | Y | Y | N | Y | SK-73 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 45 | BFD-36N | 147659 | 173789 | Inspect nozzle | TB, Elev. 42ft - 9". Off FWH 26A. | Y | Y | N | Y | SK-73 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 46 | BFD-53 | 147661 | 173788 | Inspect Elbow and Pipe plus 8 inches upstream of elbow | TB, Elev. 39ft - 9". Off FWH 26B. | Y | Y | N | Y | SK-74 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 47 | BFD-53P | 147663 | 173793 | Inspect Elbow and Pipe plus 8 inches upstream of elbow weld. For pipe 2diameters = 36inches. | TB, Elev. 39ft - 9". Off FWH 26B. | Y | Y | N | Y | SK-74 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 48 | BFD-55N | 147665 | 173796 | Inspect nozzle | TB, Elev. 42ft - 9". Off FWH 26A | Y | Y | N | Y | SK-74 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 49 | BFD-58 | 147671 | 173807 | Inspect ELBOW, PIPE & ELBOW, including 8 inches Upstream and downstream of elbow welds. For pipe 2diameters = 36inches. | TB, Elev. 23ft - 6". Off FWH 26A | Y | Y | N | Y | SK-74 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 50 | BFD-58P | 147667 | 173797 | Inspect ELBOW, PIPE & ELBOW, including 8 inches Upstream and downstream of elbow welds. For pipe 2diameters = 36inches. | TB, Elev. 23ft - 6". Off FWH 26A. | Y | Y | N | Y | SK-74 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 51 | BFD-59 | 147673 | 173810 | Inspect ELBOW, PIPE & ELBOW, including 8 inches Upstream and downstream of elbow welds. For pipe 2diameters = 36inches. | TB, Elev. 23ft - 6". Off FWH 26A | Y | Y | N | Y | SK-74 | 18" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 52 | BFD-VALVE-BFD-4-2 (BFD-48P-1) | 147675 | 173811 | | | DESCOPED | | | | | | | | |
| 53 | BFD-50 | 147677 | 173812 | | | DESCOPED | | | | | | | | |
| 54 | BFD-50P-1 | 147678 | 173813 | Inspect piping. Inspect 2 pipe diameters = 60 INCHES. | TB, Elev. 23ft - 6". | Y | Y | N | Y | SK-74 | 30" | CHECWOKRS - Ranked high on the Service Life Report | | |
| 55 | BFD-62 | 147688 | 173891 | | | DESCOPED | | | | | | | | |
| 56 | BFD-62P US | 147688 | 173891 | | | DESCOPED | | | | | | | | |
| 57 | BFD-63P DS | 147689 | 173892 | Inspect piping 2 diameters = 60 inches | TB, Elev. 29ft - 9". | Y | Y | N | Y | SK-74 | 30" | CHECWOKRS - Ranked high on the Service Life Report | | |

FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 2R19

| NUMBER | EXAM POINT | WORK REQUEST | WORK ORDER | DESCRIPTION | LOCATION | | | | PIPE SIZE | REMARKS | |
|----------------------|------------|--------------|------------|---|-----------------|------------|-------|-----------|-----------|---------|--|
| | | | | | SCAFFOLD | INSULATION | PAINT | PIPE PREP | | | DRAWING |
| 58 | BFD-65 | 147690 | 173893 | Inspect ELBOW & PIPE. Including 8 inches Upstream elbow welds & . For pipe 24inometers = 60inches. | Y | Y | N | Y | SK-74 | 30" | CHECWOKRS - Ranked high on the Service Life Report |
| 59 | BFD-65P-1 | 147690 | 173893 | Inspect ELBOW & PIPE. Including 8 inches Upstream elbow welds & . For pipe 24inometers = 60inches. | Y | Y | N | Y | SK-74 | 30" | CHECWOKRS - Ranked high on the Service Life Report |
| 60 | BFD-101 | | | | DESCOPED | | | | | | |
| 61 | BFD-21 | 147691 | 173894 | Inspect elbow plus upstream & downstream extension. Elbow plus 8 inches on either side of the elbow weld. | Y | Y | N | Y | sk-72 | 20" | RE-INSPECTION (TRENDING) |
| 62 | BFD-33 | 147693 | 173895 | Inspect elbow plus upstream & downstream extension. Elbow plus 8 inches on either side of the elbow weld. | Y | Y | N | Y | SK-73 | 18" | RE-INSPECTION (TRENDING) |
| 63 | BFD-38 | 147694 | 173902 | Inspect elbow plus upstream & downstream extension. Elbow plus 8 inches on either side of the elbow weld. | Y | Y | N | Y | SK-73 | 18" | RE-INSPECTION (TRENDING) |
| 64 | BFD-55 | 147695 | 173903 | Inspect elbow plus upstream & downstream extension. Elbow plus 8 inches on either side of the elbow weld. | Y | Y | N | Y | SK-74 | 18" | RE-INSPECTION (TRENDING) |
| 65 | BFD-71R | 147696 | 173904 | | DESCOPED | | | | | | |
| 66 | BFD-83R | 147698 | 173905 | Inspect reducer . | Y | Y | N | Y | SK-77 | 18" | RE-INSPECTION (TRENDING) |
| 67 | BFD-88 | 147699 | 173906 | Inspect elbow plus upstream & downstream extension. Elbow plus 8 inches on either side of the elbow weld. | Y | Y | N | Y | SK-78 | 18" | RE-INSPECTION (TRENDING) |
| 68 | BFD-99 | 147707 | 173907 | | DESCOPED | | | | | | |
| HEATER DRAINS | | | | | | | | | | | |
| 69 | 3EXD-18 | 147709 | 173908 | Inspect TEE, BRANCH and upstream & downstream extensions, TEE & BRANCH PLUS 4 INCHES ON ALL SIDES OF TEE welds. | Y | Y | N | Y | SK-24B | 8" | RE-INSPECTION (TRENDING) |
| 70 | 3EXD-29 | 147710 | 173931 | Inspect elbow plus upstream & downstream extension. Elbow plus 4 inches on either side of the elbow weld. | Y | Y | N | Y | SK-25A | 8" | RE-INSPECTION (TRENDING) |
| 71 | 3EXD-3 | 147712 | 173933 | Inspect elbow plus upstream & downstream extension. Elbow plus 4 inches on either side of the elbow weld. | Y | Y | N | Y | SK-24A | 8" | RE-INSPECTION (TRENDING) |
| 72 | 3EXD-51 | 147716 | 173935 | Inspect TEE, BRANCH and upstream & downstream extensions, TEE & BRANCH PLUS 4 INCHES ON ALL SIDES OF TEE welds. | Y | Y | N | Y | SK-26B | 8" | RE-INSPECTION (TRENDING) |

FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 2R19

| NUMBER | EXAM POINT | WORK REQUEST | WORK ORDER | DESCRIPTION | LOCATION | | | | PIPE SIZE | REMARKS | |
|-------------------------|-------------|--------------|------------|---|----------|------------|-------|-----------|-----------|---------|---|
| | | | | | SCAFFOLD | INSULATION | PAINT | PIPE PREP | | | DRAWING |
| 73 | 4EXD-1P | 147718 | 173936 | Inspect piping 2 diameters = 12 inches | Y | Y | N | Y | SK-21A | 6" | CHECWOKS - Ranked high on the Service Life Report |
| 74 | 4EXD-4 | 147721 | 173938 | Inspect TEE, BRANCH and upstream & downstream extensions, TEE & BRANCH PLUS 4 INCHES ON ALL SIDES OF TEE welds. | Y | Y | N | Y | SK-21A | 6"x4" | RE-INSPECTION (TRENDING) |
| 75 | 4EXD-40 | 147724 | 173939 | Inspect ELBOW & PIPE, including 2 inches Upstream elbow welds & . For pipe 2diameters = 12inches. | Y | Y | N | Y | SK-22A | 6" | RE-INSPECTION (TRENDING) |
| 76 | 4EXD-40P DS | 147724 | 173939 | Inspect ELBOW & PIPE, including 2 inches Upstream elbow welds & . For pipe 2diameters = 12inches. | Y | Y | N | Y | SK-22A | 6" | RE-INSPECTION (TRENDING) |
| 77 | 4EXD-57 | 147726 | 173941 | Inspect reducer . | Y | Y | N | Y | sk-22B | 6"x3" | RE-INSPECTION (TRENDING) |
| 78 | 4EXD-6 | 147727 | 173942 | Inspect reducer . | Y | Y | N | Y | SK-21A | 4"x3" | RE-INSPECTION (TRENDING) |
| 79 | 4EXD-70P | 147729 | 173944 | Inspect piping 2 diameters = 12 inches | Y | Y | N | Y | SK-23A | 6" | RE-INSPECTION (TRENDING) |
| 80 | 5EXV-11 | 147732 | 173947 | Inspect elbow plus upstream & downstream extension. Elbow plus 4 inches on either side of the elbow weld. | Y | Y | N | Y | SK-15 | 10 | RE-INSPECTION (TRENDING) |
| 81 | HD-10P | 147734 | 173946 | Inspect piping 2 diameters = 16 inches | Y | Y | N | Y | SK-20 | 8" | RE-INSPECTION (TRENDING) |
| 82 | HD-5 | 147735 | 173949 | Inspect TEE, BRANCH and upstream & downstream extensions, TEE & BRANCH PLUS 8 INCHES ON ALL SIDES OF TEE welds. | Y | Y | N | Y | SK-20 | 16"x12" | RE-INSPECTION (TRENDING) |
| RE-HEATER DRAINS | | | | | | | | | | | |
| 83 | MS-1A67P US | 147742 | 173962 | Inspect piping 2 diameters = 12 inches | | | | | SK-45C | 6" | RE-INSPECTION (TRENDING) |
| 84 | MS-1B35 | 147745 | 173963 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | Y | Y | N | Y | SK-48B | 6" | RE-INSPECTION (TRENDING) |
| 85 | MS-2A13 | 147747 | 173964 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | Y | Y | N | Y | SK-46A | 6" | RE-INSPECTION (TRENDING) |

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|--------|------------|--------------|------------|---|--|------------|-------|---|---|-----------|---------|--------------------------|---------|
| | | | | | | INSULATION | PAINT | Y | N | | | | |
| 86 | MS-2A14 | 167247 | 198361 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB. Elev 49ft- 4". OFF Reheater 22A drain | Y | Y | N | Y | SK-46A | 6" | RE-INSPECTION (TRENDING) | |
| 87 | MS-2B11 | 147748 | 173965 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB. Elev 49ft- 1". OFF Reheater 22B | Y | Y | N | Y | SK-49A | 6" | RE-INSPECTION (TRENDING) | |
| 88 | MS-2B13P | 147750 | 173951 | Inspect piping 2 diameters = 12 inches | TB. Elev 49ft- 1". OFF Reheater 22B | Y | Y | N | Y | SK-49A | 6" | RE-INSPECTION (TRENDING) | |
| 89 | MS-2B17 | 147751 | 173950 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB. Elev 47ft- 10". OFF Reheater 22B | Y | Y | N | Y | SK-49A | 6" | RE-INSPECTION (TRENDING) | |
| 90 | MS-2B22 | 147752 | 173954 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB. Elev 40ft- 0". OFF Reheater 22B | Y | Y | N | Y | SK-49A | 10" | RE-INSPECTION (TRENDING) | |
| 91 | MS-2B30R1 | 147753 | 173966 | Inspect (10x4) reducer . | TB. Elev. 38 ft -9". Upstream OF LCV-1105A | Y | Y | N | Y | SK-49B | 10"x4" | RE-INSPECTION (TRENDING) | |
| 92 | MS-2B42 | 147756 | 173968 | Inspect TEE, BRANCH and upstream & downstream extensions, TEE & BRANCH PLUS 2 INCHES ON ALL SIDES OF TEE welds. | TB. Elev 39ft- 3". OFF FWH 26A | Y | Y | N | Y | SK-49C | 6" | RE-INSPECTION (TRENDING) | |
| 93 | MS-2B52 | 147757 | 173969 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB. Elev. 32ft-9" OFF 26C FWH | Y | Y | N | Y | SK-49C | 6" | RE-INSPECTION (TRENDING) | |
| 94 | MS-3B13P | 147758 | 173970 | Inspect piping 2 diameters = 12 inches | TB. Elev 49ft- 8". OFF Reheater 23B drain tank | Y | Y | N | Y | SK-50A | 6" | RE-INSPECTION (TRENDING) | |

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|-------------------|---------------|--------------|------------|---|--|----------|------------|-------|-----------|------------------------------|-----------|---------------------------------|
| 95 | MS-2B30 R2 | 167249 | 198362 | Inspect (10x4) reducer . | TB. Elev. 38 ft -9". Downstream of LCV-1105A | Y | Y | N | Y | SK-49B | 10"x4" | Snapshot Assessment |
| 96 | MS-3B26 | 147761 | 173972 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB. Elev 37ft- 9". OFF Reheater 23B drain tank | Y | Y | N | Y | SK-50A | 6" | RE-INSPECTION (TRENDING) |
| 97 | MST43-PIPE US | 147763 | 173974 | Inspect piping upstream and down stream of mst 43 | Tb elev 36' 0" | Y | Y | N | Y | 9321-F-20423/ 9321-F-2131 | 1" & 3/4" | RE-INSPECTION (TRENDING) |
| MSR DRAINS | | | | | | | | | | | | |
| 98 | 1A-18 (TEE) | 147765 | 173975 | Inspect TEE, BRANCH and upstream & downstream extensions. TEE & BRANCH PLUS 2 INCHES ON ALL SIDES OF TEE welds. | TB. Elev 53ft- 9". OFF MS-21A | Y | Y | N | Y | SK-27 | 12" | RE-INSPECTION (TRENDING) |
| 99 | 1A-20P | 147767 | 174052 | Inspect piping 2 diameters = 24 inches. Component d/s of valve 5ex-19L | TB. Elev 53ft- 9". OFF MS-21A | Y | Y | N | Y | SK-27 | 12" | CHECWORKS |
| 100 | 1A-20P-1 | 147769 | 174053 | Inspect piping 2 diameters = 24 inches. Component d/s of valve 5ex-19M | TB. Elev 53ft- 1". OFF MS-21A | Y | Y | N | Y | SK-27 | 12" | CHECWORKS |
| 101 | 1A-20N | 147773 | 174054 | Nozzle and Tank Component d/s of valve 5ex-19M reference CR-HQN-2007-00915-CA-16 | TB. Elev 53ft- 1". OFF MSDT-21A | Y | Y | N | Y | SK-27 | 12" | Operating Experience /CHECWORKS |
| 102 | 2A-20P1 | 147777 | 174057 | Inspect piping 2 diameters = 24 inches. Component d/s of valve 5ex-19K | TB. Elev 53ft- 1". OFF MS-22A | Y | Y | N | Y | SK-27 | 12" | CHECWORKS |
| 103 | 2A-20P | 147775 | 174056 | Inspect piping 2 diameters = 24 inches. Component d/s of valve 5ex-19J | TB. Elev 53ft- 1". OFF MS-22A | Y | Y | N | Y | SK-27 | 12" | CHECWORKS |
| 104 | 2A-20N | 147774 | 174055 | Nozzle and Tank Component d/s of valve 5ex-19K reference CR-HQN-2007-00915-CA-16 | TB. Elev 53ft- 1". OFF MSDT-22A | Y | Y | N | Y | SK-27 | 12" | Operating Experience /CHECWORKS |
| 105 | 2B-1 | 147780 | 173500 | Inspect TEE, BRANCH and upstream & downstream extensions. TEE & BRANCH PLUS 4 INCHES ON ALL SIDES OF TEE welds. | TB. Elev 45ft- 10". OFF MSDT-22B | Y | Y | N | Y | SK-37A | 8"x6" | RE-INSPECTION (TRENDING) |
| 106 | 2B-3 | 147782 | 173501 | Reducing elbow. Inspect elbow plus upstream & downstream extension. Elbow plus 4 inches on either side of the elbow weld. | TB. Elev 43ft- 6". OFF MSDT-22B | Y | Y | N | Y | SK-37A | 8"x6" | RE-INSPECTION (TRENDING) |
| MAIN STEAM | | | | | | | | | | | | |
| 107 | 208-6P | 147784 | 174058 | Inspect piping 2 diameters = 24 inches. | TB. ELEV 10ft- 0. Downstream of LCV-1126 @ COND. 21 | Y | Y | N | Y | SK-208 | 12" | RE-INSPECTION (TRENDING) |
| 108 | 212-1P US | 147786 | 174059 | Inspect piping 2 diameters = 12 inches | TB. ELEV 10ft- 0. Downstream of LCV-1139 @ COND. 23 | Y | Y | N | Y | SK-212 | 6" | RE-INSPECTION (TRENDING) |
| 109 | 219-13P | 147787 | 174060 | Inspect piping 2 diameters = 24 inches. | TB. ELEV 36 ft- 0. Downstream of FCV-1208 @ COND. 22 | Y | Y | N | Y | SK-219 | 12" | RE-INSPECTION (TRENDING) |

FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 2R19

| NUMBER | EXAM POINT | WORK REQUEST | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|--------|------------|--------------|------------|---|--|----------|------------|-------|-----------|---------|-----------|--------------------------|
| 110 | 235-5P US | 147788 | 173922 | Inspect piping 2 diameters = 6 inches | TB. ELEV. ft.-0. Upstream of COND. 23 PEN. | Y | Y | N | Y | SK-235 | 3" | RE-INSPECTION (TRENDING) |
| 111 | 248-16P US | 147789 | 173921 | Inspect piping 2 diameters = 6 inches | TB. ELEV. 15ft-0". @ BFP TURBINE | Y | Y | N | Y | SK-248 | 3" | RE-INSPECTION (TRENDING) |
| 112 | 254-9E | 147796 | 173917 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB. ELEV 53 ft.-0. Downstream of MS-1207 (Stop valve) west side. | Y | Y | N | Y | SK-254 | 4" | RE-INSPECTION (TRENDING) |
| 113 | 270-3E | 147797 | 173916 | Inspect elbow plus piping upstream and downstream ~ 4ft. | TB. | Y | Y | N | Y | SK-270 | 1" | RE-INSPECTION (TRENDING) |
| 114 | 283-20R | 147794 | 173918 | Inspect reducer . | TB. ELEV. 15ft-0" AUX. STEAM TO UNIT COOLERS. | Y | Y | N | Y | SK-283 | 6" X 4" | RE-INSPECTION (TRENDING) |
| 115 | 283-8R | 147795 | 173487 | Inspect reducer . | TB. ELEV. 15ft-0" AUX. STEAM TO UNIT COOLERS. | Y | Y | N | Y | SK-283 | 6" X 4" | RE-INSPECTION (TRENDING) |

FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 2R19

| NUMBER | EXAM POINT | WORK REQUEST | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|--|------------------------|--------------|------------|---|--|----------|------------|-------|-----------|---------|-----------|-------------------------------------|
| FEEDWATER HEATER SHELLS | | | | | | | | | | | | |
| 116 | FWH 21A | 132254 | 155698 | Inspect FWH 21A shell 2 pipe dia. From center line of inlet nozzle radially and axially. | INSIDE CONDENSER 23 | Y | Y | N | Y | | Shell | OPERATING EXPERIENCE |
| 117 | FWH 21B | 132255 | 155699 | Inspect FWH 21B shell 2 pipe dia. From center line of nozzle radially and axially. | INSIDE CONDENSER 22 | Y | Y | N | Y | | Shell | OPERATING EXPERIENCE |
| 118 | FWH 22B | 132327 | 155705 | Inspect FWH 22B shell 2 pipe dia. From center line of nozzle radially and axially. | INSIDE CONDENSER 22 | Y | Y | N | Y | | Shell | OPERATING EXPERIENCE |
| 119 | FWH 22A | 148045 | 173900 | Inspect FWH 22A shell 2 pipe dia. From center line of nozzle radially and axially. | INSIDE CONDENSER 23 | Y | Y | N | Y | | Shell | OPERATING EXPERIENCE |
| EXTRACTION STEAM Drain | | | | | | | | | | | | |
| 120 | EST-24 | 147800 | 173914 | Inspect elbow plus upstream & downstream extension. Elbow plus 2 inches on either side of the elbow weld. | TB. ELEV. 25ft-8" off DRAIN COLLECTING TANK | | | | | SK-91 | 4" | RE-INSPECTION (TRENDING) |
| 121 | EST-31P US | 147802 | 173896 | Inspect piping 2 diameters = 8 inches | TB. ELEV. 25ft-8" off DRAIN COLLECTING TANK | | | | | SK-91 | 4" | RE-INSPECTION (TRENDING) |
| Miscellaneous | | | | | | | | | | | | |
| 122 | Valve LCV-1110 | 147803 | 173897 | Inspect PIPE & REDUCER d/s of LCV-1110; 23A MSR DRAIN TO DCT | TB ELEV 22ft-3" D/S OF LCV-11110 Near DCT | Y | Y | N | Y | SK-35B | 6" & 6X4R | Plant Specific OPERATING EXPERIENCE |
| 123 | Valve FCV-1115 | 147806 | 173899 | Inspect piping & fitting d/s of FCV-1115; 21 MBDP RECIRC. to DCT | TB. Elev. 22ft-8" d/s of FCV-1115 | Y | Y | N | Y | SK-35 | 6" | Plant Specific OPERATING EXPERIENCE |
| 124 | Valve-LCV- 1127D | 147805 | 173898 | Inspect piping & fitting d/s of LCV-1127D; HDT Large Dump to 23 Condenser. | TB ELEV 16ft-5" D/S OF LCV-1127D Inside Condenser 22 | Y | Y | N | Y | SK-18 | 14" | Plant Specific OPERATING EXPERIENCE |
| 125 | COND-22 NOZ (3EXB-18N) | 167262 | 198084 | Inspect turbine extraction nozzle 3EXB-18N (previously inspected as COND-22 NOZ) | Inside Condenser 22 | Y | Y | N | Y | SK-1 | 28" | RE-INSPECTION (TRENDING) |
| LOW PRESSURE FEED WATER HEATERS | | | | | | | | | | | | |
| 126 | LFPW 22A-1P3 | 167258 | 198359 | | | | | | | | | DESCOPE |
| 127 | LFPW 22A-1P4 | 167258 | 198359 | | | | | | | | | DESCOPE |
| 128 | LFPW 22B-1P4 | 167260 | 198360 | | | | | | | | | DESCOPE |
| SUPPORT | | | | | | | | | | | | |
| 129 | FWH shell inspection | 148046 | 173901 | open condenser | 22 & 23 condenser | | | | | | | |
| | | | | SCOPE ADDITIONS | | | | | | | | |
| | | | | DESCOPE | | | | | | | | |

