


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

ASLBP #: 07-858-03-LR-BD01
Docket #: 05000247 | 05000286
Exhibit #: ENT000061-00-BD01
Admitted: 10/15/2012
Rejected:
Other:

Identified: 10/15/2012
Withdrawn:
Stricken:



ENT000061
 Submitted: March 28, 2012

**FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 3R14
 ER IP3-05-24045**

| NUMBER | EXAM POINT | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | | | | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|-------------------|---------------|--------------|--|--|------------|-------|-----|--------------|-----------|--|-----------|---------|
| | | | | | INSULATION | PAINT | TS | Yes | | | | |
| EXTRACTION | | | | | | | | | | | | |
| 1 | EX-04.2-09T | IP3-05-24954 | 33 LP TURBINE TO 33A FEEDWATER HEATER | Inside 33 condenser. | Yes | No | Yes | 50007 | 28" X 20" | Checkworks pick. Low Checkworks hours. Inspection inside condenser. | | |
| 2 | EX-02.14-07P | IP3-05-24843 | Preparators to Header 35. Exam consists of Extraction Steam pipe EX-02.14-07P. | Turbine Building. Located approximately 17' North and 5' East of B4/18.8, El.26' | Yes | No | Yes | 50001 | 28" | Checkworks pick. Low Checkworks hours. Carbon steel component downstream of non-susceptible material. Entrance effect. | | |
| 3 | EX-04.13-07T | IP3-05-24846 | Extraction piping from 33 LP turbine to 33B feedwater heater. | Turbine Building. Located approximately 10' North and 4' West of B5/15, El.24' | Yes | No | Yes | 50008 | 20" | From Power Uprate Checkworks analysis. One of top 5 components showing greatest increase in predicted wear rate due to uprate. Calculation 040711. | | |
| 4 | EX-04.4-08E | IP3-05-24847 | Extraction piping from 33 LP turbine to 33A feedwater heater. | Turbine Building. Located approximately 8' south of A/18, El.39' | No | No | Yes | 50007 | 28" | OE from Unit 2. High wear found on similar elbow. | | |
| 5 | EX-04.11-08E | IP3-05-24848 | Extraction piping from 33 LP turbine to 33B feedwater heater. | Turbine Building. Located approximately 2' East and 1' North of A/16, El.39' | No | No | Yes | 50008 | 28" | OE from Unit 2. High wear found on similar elbow. | | |
| 6 | EX-04.21-02P | IP3-05-24849 | Extraction piping from 31 LP turbine to 33C feedwater heater. | Turbine Building. Located approximately 10' North and 5' East of B1/15, El.24' | Yes | No | Yes | 50004 | 20" | Calculation reinspection IP3-CALC-EX-03082. RSL 12/2010. Inspect EX-04.21-02P | | |
| 7 | EX-03.1A-14E | IP3-05-24850 | Extraction piping from 33 LP turbine to 34A feedwater heater. | Turbine Building. Located approximately 2' East of A/18, El.39' | No | No | Yes | 50005 | 20" | Checkworks pick. Inspect elbow and upstream and downstream piping. EX-03.1A-13P and EX-03.1A-15P. | | |
| 8 | FAC-07-EX-01 | IP3-05-24984 | Two back to back 90 degree elbows and 6" UPSM and DNSM. ...immediately upsm of crossunder steam line drip pot drain check valve western most valve above heater drain tank | Turbine Building. Located approximately 5' North of Heater Drain Tank. EL.30' | Yes | No | Yes | 9321-F-20203 | 2" | Other areas of this piping experienced leaks in previous cycle. | | |
| 9 | FAC-07-EX-02 | IP3-05-24851 | Inspect pipe downstream of the NW crossunder drip pot to valve MS-125-1. 97-PT-31 | Piping segments located on the mezz. Platform under HP Turbine. Northwest corner approximate El. 31' | No | No | Yes | 9321-F-20203 | 10", 2" | Calculation reinspection, 97-PT-31; WO 96-03869-31 Calculation IP3-CALC-MS-02494. RSL May 2010 | | |
| 10 | FAC-07-EST-01 | IP3-05-24853 | Piping segments to include DNSM piping of EST-2 and bypass valve 6EX-35 to 12" DNSM of valve 6EX-34-3 | Turbine Building. Located approximately 1' North and on the centerline of A/20, El.15' | No | No | Yes | 9321-F-20313 | 3/4" | Steam trap leaking: IP3-05-00664. Found trap with steam cuts. Steam trap report. | | |

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| NUMBER | EXAM POINT | WORK ORDER | DESCRIPTION | LOCATION | FEEDWATER | | | | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|--------|--------------|--------------|--|--|-----------|-----|-----|----|----------|------------|-------|-------------------|---|-----------|---------|
| | | | | | Yes | No | Yes | No | | | | | | | |
| 11 | FW-02.1A-01N | IP3-05-24854 | 36A FEEDWATER HTR TO SG HDR | Turbine Building. Located approximately 12' South of CC ₃ /20. El 44' | Yes | No | Yes | No | Yes | Yes | 50039 | 18" | Checkworks pick. Low Checworks hours. Common scaffold for FW-02.1A-01N, -02E, -03P and -04E | | |
| 12 | FW-02.1A-02E | IP3-05-24856 | 36A FEEDWATER HTR TO SG HDR | Turbine Building. Located approximately 12' South of CC ₃ /20. El 44' | Yes | No | Yes | No | Yes | Yes | 50039 | 18" | Checkworks pick. Low Checworks hours. Common scaffold for FW-02.1A-01N, -02E, -03P and -04E | | |
| 13 | FW-02.1A-03P | IP3-05-24857 | 36A FEEDWATER HTR TO SG HDR | Turbine Building. Located approximately 12' South of CC ₃ /20. El 44' | Yes | No | Yes | No | Yes | Yes | 50039 | 18" | Checkworks pick. Low Checworks hours. Common scaffold for FW-02.1A-01N, -02E, -03P and -04E | | |
| 14 | FW-02.1A-04E | IP3-05-24858 | 36A FEEDWATER HTR TO SG HDR | Turbine Building. Located approximately 12' South of CC ₃ /20. El 44' | Yes | No | Yes | No | Yes | Yes | 50039 | 18" | Checkworks pick. Low Checworks hours. Common scaffold for FW-02.1A-01N, -02E, -03P and -04E | | |
| 15 | FW-01.3-13P | IP3-05-24859 | Main boiler discharge header to 36 feedwater heaters. | Turbine Building. Located approximately 1' West and 1' South of A/20. El 31' | Yes | No | Yes | No | Yes | Yes | 50039 | 30" | Checkworks pick. Low Checworks hours. Common scaffold for FW-01.3-13P and -14E. | | |
| 16 | FW-01.3-14E | IP3-05-24860 | Main boiler discharge header to 36 feedwater heaters. | Turbine Building. Located approximately 1' West and 1' South of A/20. El 31' | Yes | No | Yes | No | Yes | Yes | 50039 | 30" | Checkworks pick. Low Checworks hours. Common scaffold for FW-01.3-13P and -14E. | | |
| 17 | FW-02.4-11E | IP3-05-24861 | Feedwater header to Steam Generators. | Turbine Building. Located approximately 3' South and 2' East of B8/22. El 30' | Yes | No | Yes | No | Yes | Yes | 50040 | 30" | Checkworks pick. Low Checworks hours. | | |
| 18 | FW-02.8A-26R | IP3-04-13353 | Feedwater to SG 31. Exam consists of Feedwater reducer FW-02.8A-26R DNSM of FCV-417. | Aux. Boiler Building. Located approximately 4' North and 14' West of H9/22.1, El. 22 | No | Yes | No | No | Yes | Yes | 50040 | 12" X 18" reducer | Calculation reinspection IP3-CALC-FW-03815, Rev. 0. 3R12 Inspection. Deferred from 3R13. | | |
| 19 | FW-02.8B-25R | IP3-05-24864 | Feedwater to SG 32. Exam consists of reducer FW-2.8B-25R, UPSM of FCV-427. | Aux Boiler Building El. 22'. Located approximately 9' North and 16' West of H9/22.1 | No | Yes | No | No | Yes | Yes | 50040 | 12" X 18" reducer | Calculation reinspection. Confirm wear rate. | | |
| 20 | FW-02.8D-24R | IP3-05-24866 | Feedwater to SG 33. Exam consists of reducer FW-02.8D-24R, UPSM of FCV-437. | Aux Boiler Building. Located approximately 2' South and 10' West of H9/23, El 22'. | No | Yes | No | No | Yes | Yes | 50040 | 12" X 18" reducer | Calculation reinspection. Also dnm reducer FW-02.8D-25R. Confirm wear rate. | | |

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| | | | | SCAFFOLD | INSULATION | PAINT | PIPE PREP | | | |
| | | | DRAWING | PIPE SIZE | REMARKS | | | | | |
| 21 | FW-02.5-03T | IP3-05-24985 | | | SG header to 32 Feedwater bypass line, UFSM of FCV 427L. | Yes | Yes | No | Yes | 50040 |
| 22 | FW-03.1D-08B | IP3-05-24867 | Feedwater to 33 SG | Yes | Yes | No | Yes | 50045 | 18" | Checkworks pick. Low Checkworks hours. Include downstream pipe FW-03.1D-09P. |
| 23 | FW-03.1C-13P | IP3-04-13354 | SG Header to SG 34. Exam consists of feedwater pipe FW-03.1C-13P near SG inlet. | Yes | Yes | No | Yes | EC-H-50046 9321-F-25503 9321-F-25523 | 18" pipe | Calculation reinspection IP3-CALC-FW-03807, Rev. 0 3R12 inspection. Deferred from 3R13. |
| 24 | FW-02.8B-13F | IP3-05-24868 | Feedwater to 32 SG. Exam includes piping UFSM and DNSM of flow element per previous exams. | Yes | Yes | No | Yes | 50041 | 18" pipe | Calculation reinspection IP3-CALC-FW-02471 0.0A. Confirm wear rate that was determined from R09 and R10 inspections. |
| 25 | FW-01.6C-10N | IP3-05-24869 | Feedwater to 36C feedwater heater, inlet nozzle. | Yes | Yes | No | Yes | 50042 | 18" pipe | Higher inlet velocities due to SPU per SPU project manager |
| 26 | FW-01.6A-12N | IP3-05-24870 | Feedwater to 36A feedwater heater, inlet nozzle. | Yes | Yes | No | Yes | 50039 | 18" pipe | Higher inlet velocities due to SPU per SPU project manager |

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|-------------------|--------------|--------------|--|--|----------|----|-----|----|-------|-----|-------|-------------|--|---------|
| | | | | | Yes | No | Yes | No | Yes | No | Yes | | | |
| CONDENSATE | | | | | | | | | | | | | | |
| 27 | CD-06.3B-02N | IP3-05-24872 | 32 Main boiler pump inlet nozzle. | Turbine Building. Located approximately 5' West and 5' South of A/17. | Yes | No | Yes | No | Yes | Yes | 50064 | | Checworks pick. Low Checworks hours. Recommended by snapshot assessment. | |
| 28 | CD-05.1B-04P | IP3-04-13366 | Condensate from Feedwater heater 35B to header. | Turbine building at FWH 35B. Located approximately 7' South and 15' East of CC3/18. El. 40' and from 15' for access to pipe under 36' floor. | Yes | No | Yes | No | Yes | Yes | 50064 | 14" pipe | Calculation reinspection IP3-CALC-CD-03423, Rev. 0 R11 inspection. Inspect above and below floor penetration. Deferred from 3R13. | |
| 29 | CD-03.1C-01N | IP3-05-24873 | Condensate from Feedwater heater 33C to heater 34C. | Turbine Building. Located approximately 10' South and 10' West of A/14. El 44' | Yes | No | Yes | No | Yes | Yes | 50062 | 14" | Selection from Checworks Pass 2 analysis. Include downstream elbow CD-03.1C-02E | |
| 30 | CD-04.1C-01N | IP3-05-24874 | Condensate from Feedwater heater 34C to heater 35C. | Turbine Building. Located approximately 6' South and 15' West of A/16. El 43' | Yes | No | Yes | No | Yes | Yes | 50062 | 14" | Selection from Checworks Pass 2 analysis. | |
| 31 | CD-04.1C-5E | IP3-05-24875 | Condensate from HTR 34C to HTR 35C | Turbine Building. Located approximately 3' South and 8' East of BB/16. El 32' | Yes | No | Yes | No | Yes | Yes | 50062 | 14" | Selection from Checworks Pass 2 analysis. Recommended by snapshot assessment. Include downstream pipe CD-04.1C-06P. Common scaffold for CD-04.1C-5E and -7E. | |
| 32 | CD-04.1C-7E | IP3-05-24876 | Condensate from HTR 34C to HTR 35C | Turbine Building. Located approximately 3' South and 8' East of BB/16. El 32' | Yes | No | Yes | No | Yes | Yes | 50062 | 14" | Selection from Checworks Pass 2 analysis. Recommendation by snapshot assessment. Common scaffold for CD-04.1C-5E and -7E. | |
| 33 | CD-2.1C-12T | IP3-05-24877 | Condensate from Feedwater heater 32C to header | Turbine Building. Located approximately 15' North and 5' East of D6/14.3. El 48' | Yes | No | Yes | No | Yes | Yes | 50061 | 24"X14" tee | Calculation reinspection IP3-CALC-COND-02446 RSL 12/2009 | |
| 34 | CD-2.8C-03P | IP3-05-24882 | Condensate from header to Feedwater heater 33C. On top of SWAP lab | Turbine Building. Located approximately 8' East and 8' South of BB/14. El 34' | Yes | No | Yes | No | Yes | Yes | 50061 | 14" | Calculation reinspection IP3-CALC-COND-02446 RSL 10/2009. Exam to include CD-2.8C-02E and CD-2.8C-02P. | |
| 35 | CD-2.8B-01P | IP3-05-24883 | Condensate from header to Feedwater heater 33B. On top of SWAP lab | Turbine Building. Located approximately 3' West and 8' South of BB/14. El 34' | Yes | No | Yes | No | Yes | Yes | 50061 | 14" | Calculation reinspection IP3-CALC-CD-03423 RSL 9/2009. Exam to include CD-2.8B-02E. Common scaffold for CD-2.8B-01P and -03P. | |
| 36 | CD-2.8B-03P | IP3-05-24886 | Condensate from header to Feedwater heater 33B. On top of SWAP lab | Turbine Building. Located approximately 3' West and 8' South of BB/14. El 34' | Yes | No | Yes | No | Yes | Yes | 50061 | 14" | Calculation reinspection IP3-CALC-CD-03423 RSL 7/2010. Common scaffold for CD-2.8B-01P and -03P. | |

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|--------|--------------|--------------|--|--|----------|------------|-------|-----------|----------------|-----------|---|
| 37 | CD-04.1A-04P | IP3-05-24887 | Condensate from Feedwater heater 34A to heater 35A. | Turbine Building. Located approximately 4' South of CC ₃ /16. EI42' | No | Yes | No | Yes | 50062 | 14" | Calculation reinspection IP3-CALC-CD-03423 RSL 7/2010 |
| 38 | FAC-07-CP-01 | IP3-05-24986 | Reducer immediately downstream Condensate Polisher Service Vessel B Resin Trap and UPSM of Effluent Valve EB. | Condensate Polisher Facility. Component located approximately 10' East and on centerline of column B/6 | Yes | No | Yes | Yes | IP3V-0561-0170 | 14" X 12" | OE17378, wear found on discharge piping in CP at South Texas Project, Unit 1. Common scaffold for FAC-07-CP-01 and -02. |
| 39 | FAC-07-CP-02 | IP3-05-24987 | Elbow downstream of Condensate Polisher Service Vessel B Effluent Valve EB and UPSM of Condensate polisher Service Vessel B Outlet Isolation Valve CD-418. | Condensate Polisher Facility. Component located approximately 3' North and 10' East of column B/6. | Yes | No | Yes | Yes | IP3V-0561-0170 | 12" | OE17378, wear found on discharge piping in CP at South Texas Project, Unit 1. Common scaffold for FAC-07-CP-01 and -02. |

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|----------------------|--------------|---|--|--|------------|----------|----------|----------|----------|----------|-----------------|---------------|--|---------|
| | | | | | INSULATION | SCAFFOLD | SCAFFOLD | SCAFFOLD | SCAFFOLD | SCAFFOLD | SCAFFOLD | | | |
| HEATER DRAINS | | | | | | | | | | | | | | |
| 40 | HD-3.1B-09E | IP3-05-24889 | Feedwater heater 35B drain to Heater drain tank. | Turbine Building. Located approximately 10' East of CC ₃ /18. El 17' | No | Yes | Yes | Yes | Yes | Yes | 50018 | 10" | Checworks pick. This line has no inspections. Inspection will allow entire run to be calibrated, thus greatly reducing future inspections. | |
| 41 | HD-2.1B-02R | IP3-05-24890 | Feedwater heater 35B drain to Heater drain tank. | Turbine Building. Located approximately 10' South and 1' West of BB/19. El 22' | Yes | Yes | No | Yes | Yes | Yes | 50018 | 10"X6" | Checworks pick. No inspection downstream of LCV. | |
| 42 | HD-12.2A-08T | IP3-05-24891 | 31 Heater drain pump discharge to header. | Turbine Building. Located approximately 15' South of CC ₃ /20. El 32' | Yes | Yes | No | Yes | Yes | Yes | 50079 | 16"X12" tee | Checworks pick. Low Checworks hours on this tee. No recent inspections. Last was T dat. | |
| 43 | HD-05.1C-02R | IP3-05-24892 | HTR 34C to HTR 33C. Exam consists of reducer HD-05.1C-02R. | Turbine Building. Located approximately 5' North and 19' West of A/12. El. 36'. | No | Yes | No | Yes | Yes | Yes | 50020 | 6" X 3" rduct | Calculation reinspection. IP- CALC-04-01787 RSL 11/2010 | |
| 44 | FAC-07-HD-01 | IP3-05-24896 | Feedwater heater 32A operating vent, downstream of valve 2HD-3-1. Exam to consist of 2 elbows and 12" dnsm pipe. | Turbine Building at FWH 32A. Located approx 15' North and 2' East of D6/17.3. El 36' | No | Yes | No | Yes | Yes | Yes | 9321-20223 Sh 2 | 2 1/2" | Recommendation from Shaw Power Uprate Engineering Report Balance-of-Plant IP3 section 12.4.2 Flow Accelerated Corrosion Program Uprate Evaluation. | |
| 45 | FAC-07-HD-02 | IP3-05-24897 | FWH 34B subcooler zone vent. Upstream of 4HD-4-2 per previous exam. | Turbine Building approximately 10' South and 10' East of CC ₃ /16. El 36' | No | Yes | No | Yes | Yes | Yes | 9321-20223 | 1" | Calculation reinspection IP3- CALC-HD-02493. High wear rate indication from previous inspections (97-PT-5, 01-PT-35). | |
| 46 | FAC-07-HD-03 | IP3-05-24988 | 32A feedwater heater dump to 33 condenser. 90 Elbow and 12" DNSM piping, DNSM of valve LCV-1138 | Turbine Building. Located approximately 5' East of D6/17.3. El 15' | No | Yes | No | Yes | Yes | Yes | 9321-20223 | 6" | From Leak report, LCV-1138 leaking to condenser | |
| 47 | FAC-07-HD-04 | IP3-05-24898 canceled IP3-06-24732 REPLACE | FWH 34A Operating vent, downstream of valve 4HD-3-1. Last elbow before pipe sleeve in floor | Turbine Building. Located approximately 4' North and 1' East of CC ₃ /14. El 36' | No | Yes | Yes | Yes | Yes | Yes | 9321-20223 | 1 1/2" | OE from Unit 3; leak in similar location on FWH 34B. CR-IP3-2004-00650. Small bore report. | |
| 48 | FAC-07-HD-05 | IP3-05-24899 | FWH 34C Operating vent, downstream of valve 4HD-3-3. Last elbow before pipe sleeve in floor | Turbine Building. Located approximately 4' North and 25' East of CC ₃ /14. El 36' | No | Yes | Yes | Yes | Yes | Yes | 9321-20223 | 1 1/2" | OE from Unit 3; leak in similar location on FWH 34B. CR-IP3-2004-00650. Small bore report. | |

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|------------------------|----------------|--------------|---|--|----------|-----|-----|-----|-------|-----|-----|-----------|---------------|--|---------|
| | | | | | Yes | No | Yes | No | Yes | No | Yes | | | | |
| REHEATER DRAINS | | | | | | | | | | | | | | | |
| 49 | RHD-01.3A-02P | IP3-05-24900 | Reheater 32A to Reheater Drain tank. | Piping segments located approximately 17' North and 16' East of A/15. El. 60'. | Yes | No | Yes | No | Yes | No | Yes | 50012 | 6" | Selection from Checworks Pass 2 analysis. No inspection on this line. | |
| 50 | RHD-02.4A-06L | IP3-05-24902 | RHD 32A TO HDR. | Turbine Building. Located approximately 2' East and 5' North of A/18. El 33' | Yes | No | Yes | No | Yes | No | Yes | 50015 | 10"X6" | Checworks pick. Low Checworks hours on this L. Unususl configuration. | |
| 51 | RHD-02.10A-11T | IP3-05-24904 | RHD HDR TO 36B HTR. | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | No | Yes | No | Yes | No | Yes | 50015 | 8"X6" tee | Checworks pick. Low Checworks hours. Few inspections on this line. | |
| 52 | RHD-02.12B-11T | IP3-05-24905 | RHD HDR TO 36B HTR. | Turbine Building. Located approximately 30' West and 10' North of A/18. El 43' | No | Yes | No | Yes | No | Yes | Yes | 50010 | 6" tee | Checworks pick. Low Checworks hours. Few inspections on this line. | |
| 53 | RHD-02.14B-12T | IP3-05-24906 | RHD HDR TO 36C HTR. | Turbine Building. Located approximately 20' West and 10' North of A/18. El 43' | No | Yes | No | Yes | No | Yes | Yes | 50010 | 6" tee | Checworks pick. Low Checworks hours. Few inspections on this line. | |
| 54 | RHD-02.6A-06L | IP3-05-24907 | RHD 33A TO HDR. | Turbine Building. Located approximately 2' East and 5' North of A/18. El 33' | Yes | No | Yes | No | Yes | No | Yes | 50015 | 10"X6" | Selection from Checworks Pass 2 analysis. Low Checworks hours, unusual geometry. | |
| 55 | RHD-02.9A-11T | IP3-05-24908 | RHD HDR TO 36C HTR. Above HDT. | Turbine Building. Located approximately 20' South and 20' West of A/19. El 32' | Yes | No | Yes | No | Yes | No | Yes | 50015 | 10"X6" tee | Checworks pick. Low Checworks hours. Few inspections on this line. | |
| 56 | RHD-02.5A-02R | IP3-05-24910 | RHD 33A TO HDR. Downstream of valve LCV-1104B | Turbine Building. Located approximately 3' East and 8' North of A/18. El 36' | No | Yes | No | Yes | No | Yes | Yes | 50015 | 6"X4" reducer | Calculation reinspection. IP3-CALC-RHD-03450. RSL 1/2009 | |
| 57 | RHD-02.6A-02E | IP3-05-24911 | RHD 33A TO HDR. Downstream of valve LCV-1104B | Turbine Building. Located approximately 3' East and 8' North of A/18. El 36' | No | Yes | No | Yes | No | Yes | Yes | 50015 | 6" | Calculation reinspection. IP3-CALC-RHD-03450. RSL 10/2009 | |

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| | | | | | Yes | No | Yes | No | Yes | No | Yes | | | | |
| 58 | RHD-02.6A-03P | IP3-04-13370 | RH 33 to Header. Exam consists of RHD-02.6A-03P. Downstream of valve LCV-1104B | Turbine Building. Located approximately 3' East and 8' North of A/18. El 36' | No | Yes | No | Yes | No | Yes | 50015 | 6" | Calculation reinspection for both components. IP3-CALC-RHD-03450. R11 inspection. Deferred from 3R13. RSL 12/2008 | | |
| 59 | RHD-02.2A-02E | IP3-05-24912 | RHD 31A TO HDR. Downstream of valve LCV-1104C | Turbine Building. Located approximately 2' East and 3' North of A/18. El 36' | No | Yes | No | Yes | No | Yes | 50015 | 6" | Calculation reinspection. IP3-CALC-RHD-03450. RSL 6/2010 | | |
| 60 | RHD-02.3A-02R | IP3-05-24913 | RHD 32A TO HDR. Downstream of valve LCV-1104A | Turbine Building. Located approximately 3' East and 10' North of A/18. El 36' | No | Yes | No | Yes | No | Yes | 50015 | 6"X4" reducer | Calculation reinspection. IP3-CALC-HD-00687. RSL 2/2011 | | |
| 61 | RHD-02.13B-01N | IP3-05-24914 | RHD inlet nozzles to 36B heater. | Turbine Building. Located approximately 30' West and 10' North of A/18. El 43' | Yes | Yes | No | Yes | No | Yes | 50010 | 8" | Higher inlet velocities from SPU per SPU project manager, exam to consist of nozzle and surrounding shell. | | |
| 62 | RHD-02.14A-01N | IP3-05-24915 | RHD inlet nozzles to 36B heater. | Turbine Building. Located approximately 30' West and 10' North of A/18. El 43' | Yes | Yes | No | Yes | No | Yes | 50015 | 8" | Higher inlet velocities from SPU per SPU project manager, exam to consist of nozzle and surrounding shell. | | |
| 63 | RHD-02.15B-01N | IP3-05-24916 | RHD inlet nozzles to 36C heater. | Turbine Building. Located approximately 20' West and 10' North of A/18. El 43' | Yes | Yes | No | Yes | No | Yes | 50010 | 8" | Higher inlet velocities from SPU per SPU project manager, exam to consist of nozzle and surrounding shell. | | |
| 64 | RHD-02.16A-01N | IP3-05-24917 | RHD inlet nozzles to 36C heater. | Turbine Building. Located approximately 20' West and 10' North of A/18. El 43' | Yes | Yes | No | Yes | No | Yes | 50015 | 8" | Higher inlet velocities from SPU per SPU project manager, exam to consist of nozzle and surrounding shell. | | |
| 65 | FAC-07-RHD-01 | IP3-05-24989 | 31B Reheater Drain tank to condenser. Pipe and reducer downstream of RHD-LCV-1105C. | Turbine Building. Located approximately 12' South of B4/15.7. El 41' | No | Yes | No | Yes | No | Yes | 50017 | 8"X6" | From Leak report, LCV-1105C leaks to condenser. | | |
| 66 | FAC-07-RHD-02 | IP3-05-24990 | Main steam trap header to discharge canal | Turbine Building. Located approximately 4' South and 3" East of column D1/13, El. 18'. North of DCT. El 15' | No | No | Yes | Yes | Yes | Yes | 9321-21313 | 4" | Leak found downstream of valve MS-97 due to corrosion. Inspect upstream of section to be replaced via W O IP3-05-0500 | | |

**FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 3R14
ER IP3-05-24045**

| NUMBER | EXAM POINT | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|--------|-----------------------------|--------------|--|---|----------|------------|-------|-----------|--|-----------|---|
| | | | | | | | | | | | |
| 67 | MSD-01.3B-03E | IP3-05-24930 | 31B MSR drain to MSR drain tank | Turbine Building. Located underneath 31B MSR | Yes | Yes | No | Yes | 50078 | 12" | Cheeworks pick. Need inspections on parallel trains and varied geometry for model calibration. OE from Calvert Cliffs. Common scaffold with MSD-01.3B-03E and MSD-01.1B-06T |
| 68 | MSD-01.1B-06T | IP3-05-24931 | 31B MSR drain to MSR drain tank | Turbine Building. Located underneath 31B MSR | Yes | Yes | No | Yes | 50078 | 12" | Cheeworks pick. Need inspections on parallel trains and varied geometry for model calibration. OE from Calvert Cliffs. Common scaffold with MSD-01.3B-03E and MSD-01.1B-06T |
| 69 | FAC-07-VCD-01 | IP3-05-24991 | Piping segments from MSR 31A. Exam consists of 12 components inspected in FAC exam 99-PT-25, UT report 99UT258, WO 99-02585-34. | Piping segments are located approximately 2' South and 1' East of B4/17.3. El. 45' | Yes | Yes | No | Yes | 9321-F-29013-1 | 3" | Calculation reinspection 99-PT-25-2 IP3-CALC-MSR-03132. May be descoped if recommended VCD piping replacements implemented. |
| 70 | FAC-07-VCD-02 | IP3-05-24993 | Piping segments from MSR 31B, back to back 45 elbows, 6" UPSM and DNSM | Piping segments are located approximately 12' West of F/19. El.45' | Yes | Yes | No | Yes | 9321-F-29013-1 | 3" | Calculation reinspection 99-PT-29-5 IP3-CALC-MSR-03132. May be descoped if recommended VCD piping replacements implemented. |
| 71 | FAC-07-VCD-03 14C | IP3-05-24933 | Piping segments DNSM of 31A MSR valve VCD-PCV-7008. Exam consists of 12" piping UPSM and DNSM of Westinghouse Flow Control section and all pipe and components DNSM of the control section until the pipe enters the 31 condenser. | Turbine Building. Located approximately 6' North and 2' West of B4/14.3 El. 36'. 3' under grating. Partially accessible from work platform on 31 condenser. | Yes | Yes | No | Yes | 9321-F-20233 Sheet 1 and 29033 | 3" | Calculation reinspection 03-PT-02. IP3-CALC-HD-03735. May be descoped if recommended VCD piping replacements implemented. UPSM pipe inspected in 3R13 FAC-05-VCD-04P 14C |
| 72 | FAC-07-VCD-04 14C | IP3-05-24934 | Piping segments DNSM of 32A MSR valve VCD-PCV-7009. Exam consists of 12" piping UPSM and DNSM of Westinghouse Flow Control section and all pipe and components DNSM of the control section until the pipe enters the condenser. | Turbine Building. Located approximately 2' South and 2' East of B4/15.7. From El. 36'. 3' under grating | Yes | Yes | No | Yes | 9321-F-20233 Sheet 1 and 29033IP3-05-24934 | 3" | Calculation reinspection 03-PT-03. IP3-CALC-HD-03735. May be descoped if recommended VCD piping replacements implemented. 14C |
| 73 | FAC-07-VCD-05 | IP3-03-24788 | Piping segments from MSR 32B. Two (2) 90 degree elbows per previous exam. | Turbine Building. Located approximately 12' west and on the centerline of F/19. El. 46' | Yes | Yes | No | Yes | 9321-F-29013-1 | 3" | Calculation reinspect IP3-CALC-MSR-03132 Rev. 1, 1B 3R12 exam point 03-PT-06-03. System Engineer recommendation, experience with leaks and wear in this piping. Deferred from 3R13. |

**FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 3R14
ER IP3-05-24045**

| NUMBER | EXAM POINT | WORK ORDER | DESCRIPTION | LOCATION | | | | | | REMARKS |
|--------|----------------------------------|--------------|---|----------|------------|-------|-----------|-------------------------|-----------|--|
| | | | | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | PIPE SIZE | |
| 74 | FAC-07-VCD-06 | IP3-05-25023 | Exam consists of elbow dnsm of VCD-PCV-7009 | No | Yes | No | Yes | 9321-20233 | 3" | Reinspection 03-PT-01, FAC-05-VCD-14 |
| 75 | FAC-07-VCD-07 | IP3-05-25024 | EXAM CONSISTS OF ELBOW DOWNSTREAM OF VCD-2. MSR 33B | No | Yes | No | Yes | 9321-20233 | 3" | Reinspection FAC-05-VCD-16 |
| 76 | FAC-07-VCD-08 Canceled | IP3-05-25025 | Piping from 32A MSR to 36A FWH. Exam consists of 90 elbow and 6" UPSM and DNSM. | Yes | Yes | No | Yes | 9321-29013 | 3" | Reinspection 99-PT-24-10 CANCELED (Replaced) |
| 77 | FAC-07-MSR-01 | IP3-05-24937 | Piping segments to include four (4) 90 degree elbows plus 12" UPSM and DNSM piping adjacent to fittings of the MSR 33B Channel Head vent line to the reheater drain tank 33B. | Yes | Yes | No | Yes | 9321-F-20233 Sheet 2 | 2 1/2" | Calculation reinspection 03-PT-26, IP3-CALC-HD-03812. |
| 78 | FAC-07-MSR-02 | IP3-05-25033 | Piping DNSM of MS-PCV-7005, MSR leak off valve. | Yes | Yes | No | Yes | 9321-F-20233 | 1" | From Leak report, PCV-7005 leaks to condenser. Confirm scaffolding and insulation. |

**FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 3R14
ER IP3-05-24045**

| NUMBER | EXAM POINT | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|-------------------------------------|---------------|--------------|--|--|----------|------------|-------|-----------|------------------------------|------------|---|
| MAIN STEAM | | | | | | | | | | | |
| 79 | MS-FE-449 | IP3-05-24959 | Main Steam Venturi from 34 SG. | VC EI 107' | Yes | Yes | No | Yes | 9321-F-25423 | 28" | Per OE 15860 from Calvert Cliffs. Piping wall erosion found around the drain slots at the DNSM end of the Main Steam Flow Venturi. |
| 80 | FAC-07-MST-01 | IP3-05-25028 | Piping segments downstream of MST-80, per previous inspection 01-PT-24 | Turbine Building. Located approximately 25' West of F/14, EI. 36' | No | Yes | No | Yes | 9321-F-20423 | 3/4", 1" | Calculation reinspection 01-PT-24. IP3-CALC-03426. RSL 9/2008 |
| 81 | FAC-07-MST-02 | IP3-05-24940 | Piping segments to include DNSM piping of MST-24 and bypass valve MS-100-3 to 12" DNSM of valve MS-99-30 | Turbine Building. Located approximately on the centerline and 2' West of A/19, EI. 15' | No | Yes | No | Yes | 9321-F-20413 | 3/4", 1" | Calculation reinspection IP-CALC-05-00099. Last inspected 3R13. |
| 82 | FAC-07-MST-03 | IP3-05-25029 | Piping segments to include DNSM piping of MST-4 and bypass valve MS-68-4 to 12" DNSM of valve MS-105-4 | Aux Boiler Building. Located approximately 10' West of H8/207, EI 43' | No | Yes | No | Yes | 9321-F-20413 | 3/4", 1" | Trap leaks by. IP3-05-00385. Steam trap report. |
| 83 | FAC-07-MST-04 | IP3-05-24941 | Piping segments to include DNSM piping of MST-25 and bypass valve MS-100-4 to 12" DNSM of valve MS-99-34 | Turbine Building. Located approximately on the centerline and 2' South of A/19, EI. 15' | No | Yes | No | Yes | 9321-F-20413 | 3/4", 1" | Past leaks; never been inspected. Steam trap report. |
| HIGH PRESSURE TURBINE DRAINS | | | | | | | | | | | |
| 84 | FAC-07-TD-01 | IP3-05-24942 | Piping segments to include two (2) 45 degree elbows and piping UPSM of MS-FCV-1157 and one (1) elbow and piping DNCM of MS-FCV-1157 until it enters the condenser. | Piping segments located on the mezz. Platform under HP Turbine. Southwest corner approximate EI. 31' | No | Yes | No | Yes | 9321-F-20173 | 1.5" 2" | Calculation reinspection 03-PT-09, IP3-CALC-MS-03085. May be descope if recommended High Pressure Turbine drain piping replacements implemented. |
| 85 | FAC-07-TD-02 | IP3-05-24943 | Piping segments to include piping and (3) elbows UPSM of MS-FCV-1155 and 1 elbow and piping DNSM to the condenser. | Piping segments located on the mezz. Platform under HP Turbine. Southwest corner approximate EI. 31' | No | Yes | No | Yes | 9321-F-20173 | 1.5" 2" | Calculation reinspection 03-PT-12-01, IP3-CALC-MS-03085. May be descope if recommended High Pressure Turbine drain piping replacements implemented. |
| 86 | FAC-07-TD-03 | IP3-05-24944 | Piping DNSM of MS-HCV-416-3. | Northeast corner HP turbine EI. 53' | No | Yes | No | Yes | 9321-F-20173 9321-F-20823 | 1.5", 3" | Calculation reinspection. IP-CALC-04-01795. FAC-05-TD-02. Also System Engineer recommendation; experience with leaks in this piping. |

**FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 3R14
ER IP3-05-24045**

| NUMBER | EXAM POINT | WORK ORDER | DESCRIPTION | LOCATION | FEEDWATER HEATERS | | | | | REMARKS |
|--------|--------------|--------------|---|--|-------------------|------------|-------|-----------|---------|---|
| | | | | | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | |
| 87 | HD-9.3A-02N | IP3-05-25031 | LPFWH 31A Drains inlet nozzle and adjacent shell area | Turbine Building. Located on the north side of LPFWH 31A next to condenser wall. | Yes | No | Yes | 50031 | 12" | Recommendation in SPU report "Evaluation of Feedwater Heater Performance Operation at current and Uprate Conditions Indian Point Station Unit No. 3; Low Pressure Heater No. 31 ABC". Common scaffold with HD-9.3A-02N and HD-9.4A-04N. |
| 88 | HD-9.4A-04N | IP3-05-25032 | LPFWH 31A Drains inlet nozzle and adjacent shell area | Turbine Building. Located on the north side of LPFWH 31A next to condenser wall. | Yes | No | Yes | 50031 | 12" | Recommendation in SPU report "Evaluation of Feedwater Heater Performance Operation at current and Uprate Conditions Indian Point Station Unit No. 3; Low Pressure Heater No. 31 ABC". Common scaffold with HD-9.3A-02N and HD-9.4A-04N. |
| 89 | EX-05.1C-04N | IP3-05-24948 | LPFWH 32C Steam Inlet nozzle and adjacent shell area. | Turbine Building LPFWH 32C; exam location inside condenser. | Yes | TS | Yes | 50087 | 22" | Recommendation in SPU report "Evaluation of Feedwater Heater Performance Operation at current and Uprate Conditions Indian Point Station Unit No. 3; Low Pressure Heater No. 32 A/B/C". Note that nozzle and extraction steam inlet piping on 32B was performed during 3R13, but shell was not inspected. |
| 90 | EX-05.2C-06N | IP3-05-24950 | LPFWH 32C Steam Inlet nozzle and adjacent shell area. | Turbine Building LPFWH 32C; exam location inside condenser. | Yes | TS | Yes | 50087 | 22" | Same as EX-05.1C-04N. |
| 91 | EX-04.6-06N | IP3-05-25045 | LPFWH 33A Steam Inlet Nozzle and adjacent shell area. | Turbine Building LPFWH 33A | Yes | No | Yes | 50007 | 20" | No previous inspections on LPFWH 33 shells. OE21384 from LaSalle experienced steam leak in shell adjacent to impingement plate. |

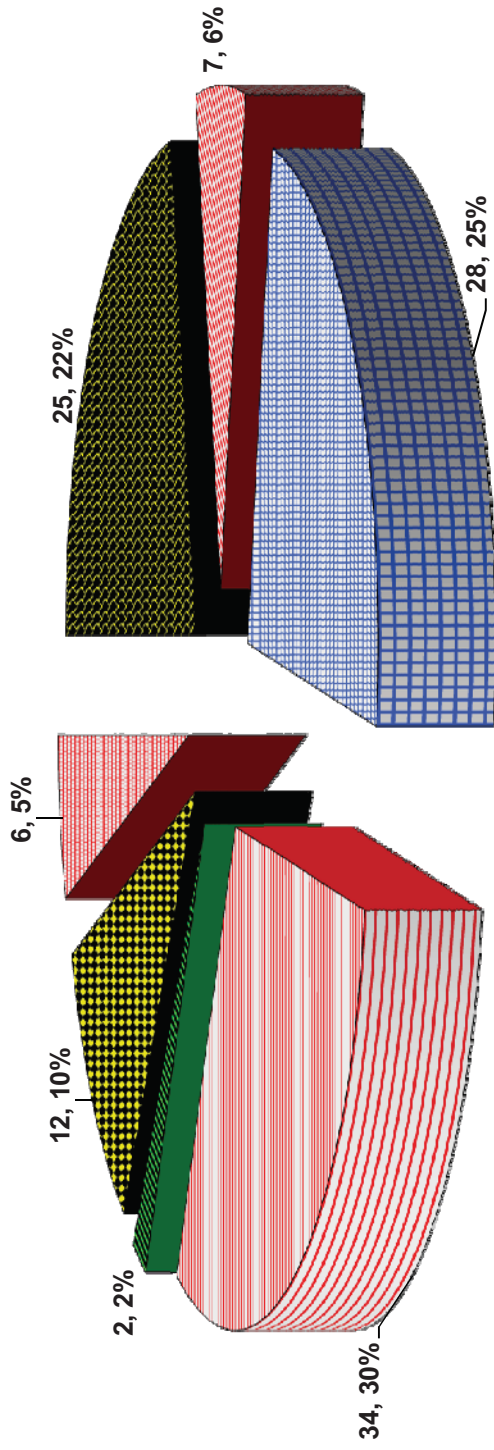
**FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 3R14
ER IP3-05-24045**

| NUMBER | EXAM POINT | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | | | | PAINT | | | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|-------------------------------|----------------|--------------|---|---|----------|-----|-----|-----|-------|-----|--------------|-----------|--|-----------|---------|
| | | | | | Yes | No | Yes | No | Yes | No | Yes | | | | |
| PRESEPARATOR DRAINS | | | | | | | | | | | | | | | |
| 92 | PD-01.2-100 | IP3-04-13364 | PRESEPRTR DRAINS Exam consists of orifice PD-01.2-100. | Turbine Building. Located approximately 15' South and 10' West of C4/20. El. 16' | No | Yes | No | Yes | No | Yes | EC-H-50075 | 10" | Checkworks pick. No inspection downstream of orifice or on this line. Deferred from 3R13. | | |
| STEAM JET AIR EJECTORS | | | | | | | | | | | | | | | |
| 93 | SJAE31-DS-CV19 | IP3-05-24945 | SJAE31 Intermediate condenser drain DNSM of valve CA-CV-19. Exam to consist of piping downstream of valve to 12" dnsm of elbow. | Turbine building. Underneath SJAE 31 located 3' North and 7' East of A/12. El 36' | No | Yes | No | Yes | Yes | Yes | 9321-F-20253 | 1" | System Engineer recommendation. OE from other plants. Leaks or failures in this system caused shutdowns due to loss of condenser vacuum. | | |
| 94 | SJAE31-DS-CV28 | IP3-05-24946 | SJAE31 Intermediate Condenser drain DNSM of valve CA-CV-28 at condenser connection | Turbine building. North of DCT at condenser wall. | Yes | No | Yes | No | Yes | Yes | 9321-F-20253 | 1" | System Engineer recommendation. OE from other plants. Leaks or failures in this system caused shutdowns due to loss of condenser vacuum. | | |
| ADDED SCOPE | | | | | | | | | | | | | | | |
| 95 | RHD-02.15A-02E | IP3-06-23430 | RHD HDR TO 36C HTR. Above HDT. | Turbine Building. Located approximately 20' South and 20' West of A/19. El 32' | Yes | Yes | Yes | No | Yes | Yes | 50015 | 6" | EOC for leak CR-IP3-2006-02270 | | |
| 96 | RHD-02.13A-01P | IP3-06-23432 | RHD HDR TO 36B HTR. | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | Yes | Yes | No | Yes | Yes | 50015 | 6" | EOC for leak CR-IP3-2006-02270 | | |
| 97 | RHD-02.13A-02E | IP3-06-23440 | RHD HDR TO 36B HTR. | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | Yes | Yes | No | Yes | Yes | 50015 | 6" | EOC for leak CR-IP3-2006-02270 | | |
| 98 | RHD-02.8B-06T | IP3-06-23441 | RHD HDR TO 36C HTR | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | Yes | Yes | No | Yes | Yes | 50010 | 10" X 6" | EOC for leak CR-IP3-2006-02270 | | |
| 99 | RHD-02.14B-01P | IP3-06-23446 | RHD HDR TO 36C HTR | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | Yes | Yes | No | Yes | Yes | 50010 | 6" | EOC for leak CR-IP3-2006-02270 | | |
| 100 | RHD-02.14B-02E | IP3-06-23447 | RHD HDR TO 36C HTR | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | Yes | Yes | No | Yes | Yes | 50010 | 6" | EOC for leak CR-IP3-2006-02270 | | |
| 101 | RHD-02.9B-02T | IP3-06-23449 | RHD HDR TO 36B HTR. | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | Yes | Yes | No | Yes | Yes | 50010 | 10" x 6" | EOC for leak CR-IP3-2006-02270 | | |
| 102 | RHD-02.12B-01P | IP3-06-23450 | RHD HDR TO 36B HTR. | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | Yes | Yes | No | Yes | Yes | 50010 | 6" | EOC for leak CR-IP3-2006-02270 | | |
| 103 | RHD-02.12B-02E | IP3-06-23451 | RHD HDR TO 36B HTR. | Turbine Building. Located approximately 4' North and 2' West of BB/19. El 33' | Yes | Yes | Yes | No | Yes | Yes | 50010 | 6" | EOC for leak CR-IP3-2006-02270 | | |
| 104 | EX-01.5A-15N | IP3-06-23346 | 36A FWH EX STEAM INLET NOZZLE | TB 36' | Yes | Yes | Yes | No | Yes | Yes | 50000 | | EOC For leak in 25C FWH UT exam | | |

**FLOW ACCELERATED CORROSION INSPECTION POINTS FOR 3R14
ER IP3-05-24045**

| NUMBER | EXAM POINT | WORK ORDER | DESCRIPTION | LOCATION | SCAFFOLD | INSULATION | PAINT | PIPE PREP | DRAWING | PIPE SIZE | REMARKS |
|------------------------------------|--------------------------------------|---|--------------------------------------|-----------|----------|------------|-------|-----------|---------|-----------|---------|
| WORK ORDERS TO BE CANCELLED | | | | | | | | | | | |
| 1 | Contingency WO from RO12 | IP3-027763793 | | | | | | | | | |
| 2 | Contingency WO from 3R13 | IP3-03-11345 | | | | | | | | | |
| 3 | Inaccessible location. | IP3-03-18570 | | | | | | | | | |
| 4 | Alternate location selected in 3R13. | IP3-04-13348 | | | | | | | | | |
| 5 | Alternate location selected in 3R13. | IP3-04-13349 | | | | | | | | | |
| 6 | Contingency WO from 3R13. | IP3-03-11337 | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | LEGEND | | | | | | | | | |
| | | PRE-OUTAGE INSPECTIONS | | | | | | | | | |
| | A | Insulation likely to contain asbestos | | 7.4 | | | | | | | |
| | TS | Insulation is a welded stainless steel Thermal Shield | | | | | | \$280,000 | | | |
| | | | Number of scaffolds needed | | | | | | | | |
| | | | Cost of scaffolds | | | | | | | | |
| | | | Number of insulation(remove/install) | 103 | | | | | | | |
| | | | Cost of insulation | \$164,000 | | | | | | | |

3R14 FLOW ACCELERATED CORROSION INSPECTION SUMMARY REASONS FOR SELECTION OF 114 INSPECTION LOCATIONS



- CHECWORKS
- INDUSTRY OE
- IPPEC OE
- CALCULATION REINSPECTION
- SNAPSHOT SCOPE ASSESSMENT
- POWER UPRATE
- DEFERRALS

| NUMBER | EXAM POINT | WORK ORDER |
|--------|------------|------------|
|--------|------------|------------|

EXTRACTION

| | | |
|----|---------------|--------------|
| 1 | EX-04.2-09T | IP3-05-24954 |
| 2 | EX-02.14-07P | IP3-05-24843 |
| 3 | EX-04.13-07T | IP3-05-24846 |
| 4 | EX-04.4-08E | IP3-05-24847 |
| 5 | EX-04.11-08E | IP3-05-24848 |
| 6 | EX-04.21-02P | IP3-05-24849 |
| 7 | EX-03.1A-14E | IP3-05-24850 |
| 8 | FAC-07-EX-01 | IP3-05-24984 |
| 9 | FAC-07-EX-02 | IP3-05-24851 |
| 10 | FAC-07-EST-01 | IP3-05-24853 |

FEEDWATER

| | | |
|----|--------------|--------------|
| 11 | FW-02.1A-01N | IP3-05-24854 |
| 12 | FW-02.1A-02E | IP3-05-24856 |
| 13 | FW-02.1A-03P | IP3-05-24857 |
| 14 | FW-02.1A-04E | IP3-05-24858 |
| 15 | FW-01.3-13P | IP3-05-24859 |
| 16 | FW-01.3-14E | IP3-05-24860 |
| 17 | FW-02.4-11E | IP3-05-24861 |
| 18 | FW-02.8A-26R | IP3-04-13353 |
| 19 | FW-02.8B-25R | IP3-05-24864 |
| 20 | FW-02.8D-24R | IP3-05-24866 |
| 21 | FW-02.5-03T | IP3-05-24985 |
| 22 | FW-03.1D-08B | IP3-05-24867 |
| 23 | FW-03.1C-13P | IP3-04-13354 |
| 24 | FW-02.8B-13F | IP3-05-24868 |
| 25 | FW-01.6C-10N | IP3-05-24869 |
| 26 | FW-01.6A-12N | IP3-05-24870 |

CONDENSATE

| | | |
|----|--------------|--------------|
| 27 | CD-06.3B-02N | IP3-05-24872 |
| 28 | CD-05.1B-04P | IP3-04-13366 |
| 29 | CD-03.1C-01N | IP3-05-24873 |
| 30 | CD-04.1C-01N | IP3-05-24874 |
| 31 | CD-04.1C-5E | IP3-05-24875 |
| 32 | CD-04.1C-7E | IP3-05-24876 |
| 33 | CD-2.1C-12T | IP3-05-24877 |
| 34 | CD-2.8C-03P | IP3-05-24882 |
| 35 | CD-2.8B-01P | IP3-05-24883 |
| 36 | CD-2.8B-03P | IP3-05-24886 |
| 37 | CD-04.1A-04P | IP3-05-24887 |
| 38 | FAC-07-CP-01 | IP3-05-24986 |
| 39 | FAC-07-CP-02 | IP3-05-24987 |

HEATER DRAINS

| | | |
|----|--------------|--------------|
| 40 | HD-3.1B-09E | IP3-05-24889 |
| 41 | HD-2.1B-02R | IP3-05-24890 |
| 42 | HD-12.2A-08T | IP3-05-24891 |
| 43 | HD-05.1C-02R | IP3-05-24892 |
| 44 | FAC-07-HD-01 | IP3-05-24896 |

| | | |
|----|--------------|--------------|
| 45 | FAC-07-HD-02 | IP3-05-24897 |
| 46 | FAC-07-HD-03 | IP3-05-24988 |
| 47 | FAC-07-HD-04 | IP3-05-24898 |
| 48 | FAC-07-HD-05 | IP3-05-24899 |

REHEATER DRAINS

| | | |
|----|----------------|--------------|
| 49 | RHD-01.3A-02P | IP3-05-24900 |
| 50 | RHD-02.4A-06L | IP3-05-24902 |
| 51 | RHD-02.10A-11T | IP3-05-24904 |
| 52 | RHD-02.12B-11T | IP3-05-24905 |
| 53 | RHD-02.14B-12T | IP3-05-24906 |
| 54 | RHD-02.6A-06L | IP3-05-24907 |
| 55 | RHD-02.9A-11T | IP3-05-24908 |
| 56 | RHD-02.5A-02R | IP3-05-24910 |
| 57 | RHD-02.6A-02E | IP3-05-24911 |
| 58 | RHD-02.6A-03P | IP3-04-13370 |
| 59 | RHD-02.2A-02E | IP3-05-24912 |
| 60 | RHD-02.3A-02R | IP3-05-24913 |
| 61 | RHD-02.13B-01N | IP3-05-24914 |
| 62 | RHD-02.14A-01N | IP3-05-24915 |
| 63 | RHD-02.15B-01N | IP3-05-24916 |
| 64 | RHD-02.16A-01N | IP3-05-24917 |
| 65 | FAC-07-RHD-01 | IP3-05-24989 |
| 66 | FAC-07-RHD-02 | IP3-05-24990 |

MSR DRAINS

| | | |
|----|---------------|--------------|
| 67 | MSD-01.3B-03E | IP3-05-24930 |
| 68 | MSD-01.1B-06T | IP3-05-24931 |
| 69 | FAC-07-VCD-01 | IP3-05-24991 |
| 70 | FAC-07-VCD-02 | IP3-05-24993 |
| 71 | FAC-07-VCD-03 | IP3-05-24933 |
| 72 | FAC-07-VCD-04 | IP3-05-24934 |
| 73 | FAC-07-VCD-05 | IP3-03-24788 |
| 74 | FAC-07-VCD-06 | IP3-05-25023 |
| 75 | FAC-07-VCD-07 | IP3-05-25024 |
| 76 | FAC-07-VCD-08 | IP3-05-25025 |
| 77 | FAC-07-MSR-01 | IP3-05-24937 |
| 78 | FAC-07-MSR-02 | IP3-05-25033 |

MAIN STEAM

| | | |
|----|---------------|--------------|
| 79 | MS-FE-449 | IP3-05-24959 |
| 80 | FAC-07-MST-01 | IP3-05-25028 |
| 81 | FAC-07-MST-02 | IP3-05-24940 |
| 82 | FAC-07-MST-03 | IP3-05-25029 |
| 83 | FAC-07-MST-04 | IP3-05-24941 |

HIGH PRESSURE TURBINE DRAINS

| | | |
|----|--------------|--------------|
| 84 | FAC-07-TD-01 | IP3-05-24942 |
| 85 | FAC-07-TD-02 | IP3-05-24943 |
| 86 | FAC-07-TD-03 | IP3-05-24944 |

FEEDWATER HEATERS

| | | |
|----|--------------|--------------|
| 87 | HD-9.3A-02N | IP3-05-25031 |
| 88 | HD-9.4A-04N | IP3-05-25032 |
| 89 | EX-05.1C-04N | IP3-05-24948 |
| 90 | EX-05.2C-06N | IP3-05-24950 |

| | | |
|----|-------------|--------------|
| 91 | EX-04.6-06N | IP3-05-25045 |
|----|-------------|--------------|

PRESEPARATOR DRAINS

| | | |
|----|-------------|--------------|
| 92 | PD-01.2-100 | IP3-04-13364 |
|----|-------------|--------------|

STEAM JET AIR EJECTORS

| | | |
|----|----------------|--------------|
| 93 | SJAE31-DS-CV19 | IP3-05-24945 |
|----|----------------|--------------|

| | | |
|----|----------------|--------------|
| 94 | SJAE31-DS-CV28 | IP3-05-24946 |
|----|----------------|--------------|

SUPPORT WORK ORDERS

| | | |
|---|--------------|--------------|
| 1 | EX-05.1C-04N | IP3-05-24952 |
|---|--------------|--------------|

| | | |
|---|--------------|--------------|
| 2 | EX-05.2C-06N | IP3-05-24952 |
|---|--------------|--------------|

| | | |
|---|-------------|--------------|
| 3 | EX-04.2-09T | IP3-05-24955 |
|---|-------------|--------------|

| | | |
|---|---------|--------------|
| 4 | LPFW32C | IP3-05-25034 |
|---|---------|--------------|

3R14 WORK ORDERS TO BE CANCELLED

| | | |
|---|--------------------------|---------------|
| 1 | Contingency WO from RO12 | IP3-027763793 |
|---|--------------------------|---------------|

| | | |
|---|--------------------------|--------------|
| 2 | Contingency WO from 3R13 | IP3-03-11345 |
|---|--------------------------|--------------|

| | | |
|---|------------------------|--------------|
| 3 | Inaccessible location. | IP3-03-18570 |
|---|------------------------|--------------|

| | | |
|---|--------------------------------------|--------------|
| 4 | Alternate location selected in 3R13. | IP3-04-13348 |
|---|--------------------------------------|--------------|

| | | |
|---|--------------------------------------|--------------|
| 5 | Alternate location selected in 3R13. | IP3-04-13349 |
|---|--------------------------------------|--------------|

| | | |
|---|---------------------------|--------------|
| 6 | Contingency WO from 3R13. | IP3-03-11337 |
|---|---------------------------|--------------|

3R14 FAC Scope Work Breakdown

| Total number of inspectons | Number of FAC Portals ¹ | Number of scaffolds | Number of insulation removals |
|---|------------------------------------|---------------------|---|
| 111 inspections; 8 of which are pre-outage | 61 | 49 | 97 Insulation removals; 3 of which are Stainless Steel thermal shields located in condenser |
| | | | |
| | | | |
| | | | |
| 1. Portals are first time FAC inspections that are to be re-insulated with blanket insulation for ease of removal for future inspection. Becomes capital expense. | | | |