

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Docket #: 05000247 05000286 Exhibit #: ENT000063-00-BD01 Admitted: 10/15/2012 Rejected: Other:	Identified: 10/15/2012 Withdrawn: Stricken:

ENT0000063
Submitted: March 28, 2012

FLOW-ACCELERATED CORROSION INSPECTION POINTS FOR 3R13 OUTAGE

EXAM POINT / WORK ORDER	SCAFFOLD UP	INSULATION OFF	PREP COMPLETE	INSPECTION STARTED	INSPECTION GEORGE	INSPECTION FIELD	COMPLETED	FROM EAM PACKAGE	TO EAM PACKAGE	DATE	INSPECTION	DESCRIPTION	LOCATION	SCAFFOLD	PHOTO	DRAWING	PIPE SIZE	REMARKS
EX-04.4-22T IP3-04-13344	3/3/05	3/4/05	3/10/2005	3/14/2005	3/14/2005	3/15/2005	3/16/2005	3/16/2005	3/17/2005			LP Turbine to HTR 32A. Exam consists of Extraction Steam tee EX-04.4-22T.	Turbine Building. Located approximately 4' South 4' East of CC3/13, El24'.	Yes	34	EC-H-50007	28" X 20" tee	Calculation reinspection IP2-CALC EX-00832, Rev. 0. 0A. RO10 inspection. Low Creepworks hours. Model page C-36. OE inspection. No previous inspections on this run. OE from Unit 2 internal inspections indicating nozzle wear, similar inspections planned 2R16.
EX-05.1B-04N IP3-05-14124			3/25/2005	3/25/2005	3/25/2005							LP Turbine to HTR 32B. Exam includes nozzle EX-05.1B-04N, EX-05.1B-03E, EX-05.1B-02P and EX-05.1B-01N. Nozzle located on FWH 32C inside 32 condenser.	Inside 32 condenser	Yes		EC-H-50086	20"	Low Creepworks hours. Model page C-36. OE inspection. No previous inspections on this run. OE from Unit 2 internal inspections indicating nozzle wear, similar inspections planned 2R16.
EX-05.2B-06N IP3-05-14125			3/25/2005	3/25/2005	3/25/2005							LP Turbine to HTR 32B. Exam includes EX-05.2B-06N, EX-05.2B-06E, and EX-05.2B-04P. Nozzle located on FWH 32C inside 32 condenser.	Inside 32 condenser	Yes		EC-H-50086	20"	Low Creepworks hours. Model page C-36. OE inspection. No previous inspections on this run. OE from Unit 2 internal inspections indicating nozzle wear, similar inspections planned 2R16.
EX-02.14-04T IP3-04-13350	3/4/05		3/15/2005	3/15/2005	3/15/2005	3/16/2005	3/16/2005	3/16/2005	3/18/2005			Header 35. Exam consists of Extraction Steam tee EX-02.14-04T, UPSM pipe EX-02.14-03P and DNSM pipe EX-02.14-08P.	Turbine Building. Located approximately 17' North and 5' East of B4/18.8, El26'.	Yes	35	EC-H-50001	28" X 6" tee	Low Creepworks Hours. Model page C-68. Carbon steel pipe and tee located DNSM of Cr-moly elbow. FAC experience found increased wear on carbon components DNSM of resistant materials.
NCW-EX- XUNDER-11 IP3-04-13352	2/20/05	3/4/05	3/24/2005	3/25/2005								Cross Under piping. Exam consists of visual inspection of cladding, baseline measurements taken in 10/1999, and wear under dogbones.	Turbine Building. Inside and outside of 32" diameter South East Crossunder pipe..	Yes	74	Ultrasonic Exam report number 99UT288	32"	OE inspection. Examine general condition of the weld overlay and around dogbones and perform UT on baseline locations from the inside. Perform UT on the outside of the pipe to determine if there is wear under the dogbones.

SCAFFOLD UP		INSULATION OFF		PIPE PREP COMPLETE		EXAM PACKAGE TO WESDYNE		INSPECTION STARTED / GEORGE		INSPECTION FIELD COMPLETE		EXAM PACKAGE FROM WESDYNE		EXAM PACKAGE COMPLETE IN MAXIMO		SCAFFOLD DOWN		DESCRIPTION		LOCATION		SCAFFOLD		INSULATION		PHOTO		DRAWING		PIPE SIZE		REMARKS	
EXAM POINT / WORK ORDER																																	
FEEDWATER																																	
FW-2.8B-25R IP3-04-13355	3/5/05	3/2/05		3/15/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/17/2005	3/17/2005	3/17/2005	3/17/2005	3/19/2005	3/19/2005				SG Header to SG 32. Exam consists of reducer FW-2.8B-25R, UPSM of FCV-427, 36 Heaters to SG Header.	Aux Boiler Building, El. 22'. Located approximately 9' North and 16' West of H922.1	yes	Yes	62	EC-H-50040	12" X 18" red	Low Checworks hours. New inspection.								
FW-02.1C-01N IP3-04-13356	3/3/05	3/7/05			3/18/2005	3/18/2005	3/18/2005	3/19/2005	3/19/2005	3/19/2005	3/19/2005	3/22/2005	3/22/2005				Exam consists of Nozzle FW-02.1C-01N and DNSM components FW-02.1C-02E, and FW-02.1C-03P.	Turbine Building. Located approximately 15' South and 18' West of A/20, El.44'	Yes	Yes	46	EC-H-50042	18"	Low Checworks hours. Model page C-4. Currently only one inspection on this line.									
FW-01.3-12E IP3-04-13357	3/4/05	3/4/05		3/25/2005	3/25/2005	3/25/2005	3/25/2005	3/25/2005	3/19/2005	3/19/2005	3/19/2005	3/19/2005	3/19/2005				Boiler Feed Pump Discharge Header. Exam consists of elbow FW-01.3-12E and DNSM pipe FW-01.3-13P.	Turbine Building. Located approximately 10' South and 5' West of A/19, El. 31'	Yes	Yes	38	EC-H-50039	30"	Low Checworks Hours. Model pages C-13. New inspections for these components.									
FW-01.3-17T IP3-04-13358	3/4/05	3/3/05		3/15/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/19/2005	3/19/2005	3/19/2005	3/19/2005	3/19/2005				Boiler Feed Pumps Discharge Header. Exam consists of Tee FW-01.3-17T and DNSM pipe FW-01.3-18P.	Turbine Building. Located approximately 2' South and 9' West of A/20, El. 23'	Yes	Yes	37	EC-H-50039	18" X 30" tee	Low Checworks Hours. Model page C-13. New inspection for this component.									
FW-01.1A-01N IP3-04-13359	3/4/05	3/3/05		3/17/2005	3/25/2005	3/25/2005	3/25/2005	3/25/2005	3/26/2005	3/26/2005	3/26/2005	3/26/2005	3/26/2005				Boiler Feed Pump 31 to BFP Header. Exam consists of nozzle FW-01.1A-01N, DNSM pipe FW-01.1A-02P and reducer FW-01.1A-03R on the discharge of the 31 BFP.	Turbine Building. Located approximately 15' East and CL of BB/15, El. 20'	Yes	Yes	39	EC-H-50039	16" 20"	FW-01.1A-03R Checworks pick. Model page C-12. Last inspected in RO8. FW-01.1A-01N per OE17454 from Braidwood re FW Pump nozzle thinning, nozzle last inspected 1992. FW-01.1A-02P DNSM of high Cr nozzle.									
FW-02.8D-24R IP3-04-13360		3/4/05		3/15/2005	3/16/2005	3/17/2005	3/17/2005	3/17/2005	3/22/2005	3/22/2005	3/22/2005	3/21/2005	3/21/2005				SG Header to SG 33. Exam consists of UPSM reducer FW 02.8D-24R and DNSM reducer FW-02.8D-25R of FCV-437	Aux Boiler Building. Located approximately 2' South and 10' West of H923, El. 22'.	No	Yes	61	EC-H-50040	12" X 18" reducer	Low Checworks hours. Model page C-38. New inspections.									
FW-02.4-17E IP3-04-13361	3/4/05	3/3/05		3/17/2005	3/18/2005	3/18/2005	3/18/2005	3/18/2005	3/21/2005	3/21/2005	3/21/2005	3/21/2005	3/21/2005				SG Inlet Header. Exam consists of elbow FW-02.4-17E and DNSM pipe FW-02.4-18P.	Aux Boiler Building. Located approximately 4' South and 2' West of H2/22, El. 43'.	Yes	Yes	59/60	EC-H-50040	30"	Low Checworks Hours. New inspection.									
FW-02.4-02T IP3-04-13362	3/4/05	3/3/05		3/22/2005	3/22/2005	3/22/2005	3/22/2005	3/22/2005	3/24/2005	3/24/2005	3/24/2005	3/24/2005	3/24/2005				SG Inlet Header. Exam consists of tee FW-02.4-02T and DNSM pipe FW-02.4-03P.	Turbine Building. Located approximately 7' South and 7' East of BB/20, El. 23' 6".	Yes	Yes	36	EC-H-50039	30" X 18" tee	Low Checworks Hours. New inspection.									
FW-03.1B-08E IP3-04-13363	3/16/05	3/17/05		3/18/2005	3/18/2005	3/18/2005	3/18/2005	3/18/2005	3/21/2005	3/21/2005	3/21/2005	3/28/2005	3/28/2005				SG Header to SG 32. Exam consists of elbow FW-03.1B-08E and DNSM pipe FW-03.1B-09P.	VC El. 104'	Yes	Yes		EC-H-50047	18"	OE Inspection. Callaway IN-2001 09 unexpected thinning of feedwater piping inside containment. IP3 has few inspections inside containment. Select components from among lowest predicted Checworks hours in containment									

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REHEATER DRAINS																			
RHD-01.1B-14F IP3-04-13371			3/23/2005	3/23/2005	3/23/2005		3/26/2005	3/29/2005				RH 31 to Header. Exam consists of RHD-01.1B-14F and DNSM components RHD- 01.1B-15P and RHD-01.1B- 16E.	Turbine Building. Located approximately 9' East and the centerline of D1/14. El. 39'.	No	Yes	54	EC-H-50017	6"	Checworks pick. Need to inspect DNSM of flow orifices.
RHD-01.5B-04P IP3-04-13392	3/8/05		3/24/2005	3/24/2005	3/24/2005			3/29/2005				RH 32B to Header. Exam consists of RHD-01.5B-04P and components RHD-01.5B- 06R, RHD-01.6B-01P and RHD-01.6B-02E.	Turbine Building. Located approximately 6' North and 11' West of F/14. El. 47'.	Yes	Yes	55	EC-H-50009	6" 10"	Checworks pick. Data indicates possible flashing across flow element immediately UPSM of these components. Previous exam in RO8. Will establish accurate wear rate.
RHD-01.10A-18F IP3-04-13393	3/5/05		3/24/2005	3/24/2005	3/26/2005	3/26/2005	3/26/2005	3/29/2005				RH 33 to Header. Exam consists of RHD-01.10A-18F and components RHD-01.10A- 19P, RHD-01.10A-20R, and RHD-01.11A-01E.	Turbine Building. Located approximately 9' North and 2' East of B4/17.3. El. 46'.	Yes	Yes	57	EC-H-50014	6" 8"	Checworks pick. Data in other runs indicate possible flashing across flow element. No previous inspections DNSM of the flow orifice.
RHD-01.10B-26F IP3-04-13394	2/16/05		3/23/2005	3/24/2005	3/25/2005	3/25/2005	3/24/2005	3/28/2005				RH 33 to Header. Exam consists of RHD-01.10B-26F and DNSM components RHD- 01.10B-27P and RHD-01.10B- 28E.	Turbine Building. Located approximately 8' South and 9' East of D1/14. El. 47'.	Yes	Yes	56	EC-H-50016	6"	Checworks pick. Data in other runs indicate possible flashing across flow element. No previous inspections DNSM of the flow orifice.
RHD-02.10B-16T IP3-04-13395				3/28/2005								RHD HDR to Heaters. Exam consists of Tee RHD-02.10B- 16T, RHD-02.10B-14T and RHD-02.10B-17R.	Turbine Building. Located approximately 10' South and 4' East of CC3/19. El. 43'.	No	Yes	48	EC-H-50010	6"	Checworks pick. Poor train coverage in this Checworks run. Most lines do not have any inspections. Tee selected has lowest RSL.

EXAM POINT / WORK ORDER		SCAFFOLD UP		INSULATION OFF		PIPE PREP COMPLETE		EXAM PACKAGE TO MESOYNE		INSPECTION STARTED		INSPECTION GEORGE		FIELD COMPLETE		EXAM PACKAGE FROM		WELDING COMPLETE IN		INSULATION ON		SCAFFOLD DOWN		DESCRIPTION		LOCATION		SCAFFOLD		PHOTO		DRAWING		PIPE SIZE		REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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EXAM POINT / WORK ORDER	SCAFOLD UP	INSULATION OFF	PIPE PREP COMPLETE	EXAM PACKAGE TO WEDS	INSPECTION STARTED	INSPECTION GEORGE	FIELD COMPLETION	EXAM PACKAGE FROM	EXAM PACKAGE COMPLETE	INSULATION ON	SCAFOLD DOWN	DESCRIPTION	LOCATION	SCAFOLD	INSULATION	PHOTO	DRAWING	PIPE SIZE	REMARKS
HIGH PRESSURE TURBINE DRAINS																			
FAC-05-TD-01	3/2/05	3/15/2005	3/15/2005	3/17/2005	3/18/2005	3/18/2005	3/19/2005					Piping segments to include piping DNSM of MS-FCV-1157 until it enters the condenser.	Piping segments are located on Mezz. Platform under HP Turbine; Southwest corner of Mezz. Approximate El. 32'.	No	Yes	73	9321-F-20173	1.5", 2"	Calculation reinspect IP3-CALC-MS-03085 Rev. 1; 1B, 3R12 exam point 03-PT-09-11.
IP3-03-24801																			Seat leakage all cycle. (Repair scheduled during 3R13) CR-IP3-2003-02748, CR-IP3-2003-02654 Wear found during 3R12 inspection, (03-PT-08), Current WRT IP3-03-02546 (MW e Report)
FAC-05-TD-04	3/2/05	3/24/2005	3/24/2005									Piping segments DNSM of MS-FCV-1154.	Piping segments located on Mezz. Platform under HP Turbine; Southeast corner of Mezz. Approximate El. 31'.	No	Yes	72	9321-F-20173	1.5"	2003-02748, CR-IP3-2003-02654 Wear found during 3R12 inspection, (03-PT-08), Current WRT IP3-03-02546 (MW e Report)
IP3-03-24804																			
FAC-05-TD-06				3/14/2005				Do not reinsulate pipe replacement required.				Exam consists of 2" pipe downstream of valve MS-FCV-1158 at the condenser.	Piping segment is located on the Mezz. Platform under the HP turbine; southeast corner of the Mezz. Approximate elevation 31'.	No	Yes		9321-F-20203 Sh. 1 9321-F-20173	2"	Inspection in lieu of weld overlay over localized wear area. Ref WO IP3-03-11343.
IP3-05-13301		3/13/2005	3/14/2005	NOTED	3/22/2005	3/16/05	micro grid												
EXTRACTION STEAM																			
FAC-05-EX-01	3/2/05	3/24/2005	3/24/2005	3/24/2005	3/26/2005	3/26/2005	3/29/2005					Discharge piping from North East crossunder 31B Drip Pot. Through MS-125-3	Piping segments located 9' South and 8' West of Mezz. platform North East corner.	No	Yes	69	9321-F-20203	10", 2"	Calculation reinspect IP3-CALC-MS-02494. Last exam 97-PT-30.
IP3-03-24812												One 90 degree elbow and two 45 degree elbows immediately upstream of NW crossunder steam line dip pot drain check valve MS-126-1, near the heater drain tank. Included will be 6" of piping upstream and downstream of each elbow.	Piping segments located approximately 13' South and 6' West of BB/19 El. 25'	Yes	Yes		9321-F-20203	2"	CR-IP3-2004-2021; leak in similar location during cycle 13.
FAC-05-EX-02	3/8/05	3/11/05	3/14/2005	3/14/2005	3/15/2005		3/17/2005												
IP3-04-17869																			

EXAM POINT / WORK ORDER	SCAFOLD UP	INSULATION OFF	PIPE PREP COMPLETE	EXAM PACKAGE TO WESDYN	INSPECTION STARTED GEORGE	INSPECTION FIELD COMPLETE	EXAM PACKAGE FROM WESDYN	EXAM PACKAGE COMPLETE IN MAXIMO	INSULATION ON	SCAFOLD DOWN	DESCRIPTION	LOCATION	SCAFOLD	INSULATION	PHOTO	DRAWING	PIPE SIZE	REMARKS
MAIN STEAM																		
FAC-05-MS-01 IP3-03-24813	3/4/05	3/3/05									Piping immediately DNSM of MS-PCV-1152, HPT cylinder heating steam.	Northeast corner HP turbine EI, 53'.	Yes	Yes		9321-F-20173	1.5"	Calculation reinspect IP3-CALC-MS-03448 Rev. 0. R11 exam point 01-PT-05-01.
FAC-05-MS-02 IP3-03-24815				3/28/2005							HP Turbine cylinder heating steam supply manifold. Also accessible fittings on HP Turbine inner rotor gland piping and 1 dia. UPSM and 2 dia. DNSM piping. (West side only)	South side of HP Turbine, EI, 53'. West side gland piping.	No	Yes		9321-F-20173	3"	Turbine System Engineer pick. Experience with with leaks in this piping.
FAC-05-MS-03 IP3-03-24816	3/4/05	3/3/05		3/28/2005							Piping segments UPSM of MS-PCV-1153 to include piping from 1 dia UPSM of flow orifice through 45' elbow plus 2 dia DNSM piping.	Northwest corner HP turbine EI, 53'.	Yes	Yes		9321-F-20173	1.5"	Turbine System Engineer pick. Has seen leaks in the past.
HEATER DRAINS AND VENTS																		
FAC-05-HD-05 IP3-03-24823	3/2/05		3/15/2005	3/15/2005	3/18/2005	3/18/2005	3/18/2005				Piping segments include farthest DNSM tee of the 35C Feedwater Heater Operating Vent piping. 3 UPSM elbows on the branch and 1 dia. UPSM and 2 dia. DNSM of all fittings.	Piping segments located approximately 8' South and 5' East of BB/18, 33' EI.	Yes	No		9321-F-20223 Sheet 1	1.25", 2.5"	Small Bore Report; Short Term Inspections. System Engineer recommendation; wear and leaks found on FWH Operating Vent piping.
FEEDWATER HEATER SHELL																		
FAC-05-FWH-01 IP3-03-24827		3/8/05	3/21/2005	3/23/2005	3/24/2005						FWH 35B Shell. Areas of lowest PEC readings during previous exam 99-03343-02. Approximate 35B PEC locations AE-1 to AI-10.	Tank shell inspection located approximately 2' North and 16' East of CC3/17, EI, 39'.	No	Yes		IP3V-520-7.2- 0043	N/A	Operating experience from Limerick OE15986. Operating experience OE11020. Confirm lowest PEC readings taken 8/99. Wear found in IP2.24 FWH.

EXAM POINT / WORK ORDER	SCAFOLD UP	INSULATION OFF	PIPE PREP COMPLETE	EXAM PACKAGE TO WESDYNE INSPECTION STARTED GEORGE	INSPECTION FIELD COMPLETE	EXAM PACKAGE FROM WESDYNE COMPLETE	EXAM PACKAGE COMPLETE IN MAXIMO	INSULATION ON	SCAFOLD DOWN	DESCRIPTION	LOCATION	SCAFOLD	INSULATION	PHOTO	DRAWING	PIPE SIZE	REMARKS
GLAND STEAM SUPPLY																	
FAC-05-GS-01										Low Pressure Turbine gland steam supply piping segments to include last two elbows and DNSM pipe to condenser.	Piping segments located approximately 8' North and 30' West F/15, El. 36'	No	Yes	58	9321-F-	6"	Leakage area detailed in CR-IP3- 2003-06699 and in WO IP3-03- 04219.
IP3-03-24865																	
FAC-05-GS-02										Boiler Feed Pump Turbine gland steam supply piping	Piping segments located DNSM of valve 3EX-30-2 approximately 3' North and 6' West of A/16, El. 15'.	No	Yes		9321-F-20243	3"	Peach Bottom OE/6287 BFPT sealing steam leak, piping not in FAC program. WO IP3-03-18048 generated for this inspection per LO-OEN-2003-00228 CA 3.
IP3-03-18048																	
Running Count	32	41	41	51	37	35	31	0	0	Total	Total	34	53				
Percent Complete	94.12%	77.36%	75.93%	94.44%	68.52%	64.81%	57.41%	0.00%	0.00%			20	1				
												54	54				

SMALLBORE AUGMENTED INSPECTION POINTS FOR RO12
IP3-ICD-MS-03597 Rev. 1

INSPECTION POINT		DESCRIPTION		LOCATION		SCAFFOLD	INSULATION	PAINT	DRAWING	PIPE SIZE	REMARKS
MOISTURE SEPARATOR REHEATER VENT CHAMBER DRAINS											
03-PT-01 Contingency Repair PID 63793	Piping segments adjacent to MSR 32A to include 90° elbow and piping DNSM of VCD-PCV-7009 thru VCD-15 to the next DNSM 90° elbow plus 12" DNSM piping	Piping segments are located approximately 1' North and 12' East of A/15, El. 54'.	Yes	Yes	No	9321-F-20233 Sheet 1 and 29033	3"	Cancel if inspection performed during forced outage on WR 01-04476-02. Leak Report. Inspected in R11; 01-PT-33; WR 00-04379-08; calc. IP3-CALC-MULT-03392.			
03-PT-02 Contingency Repair PID 63793	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 31 Condenser.	Piping segments are located approximately 6' North and 2' West of B4/14.3. From El. 36', 3' under grating; partially accessible from work platform on 31 condenser.	Yes	Yes	No	9321-F-20233 Sheet 1 and 29033	3"	DER 01-02861; ACT-01-57525; PID 63372. Leak in elbow; repair clamp installed.			
03-PT-03 Contingency Repair PID 63793	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 31 Condenser.	Piping segments are located approximately 2' South and 2' East of B4/15.7. From El. 36', 3' under grating.	Yes	Yes	No	9321-F-20233 Sheet 1 and 29033	3"	DER 01-02861; ACT-01-57525; PID 63373. Leak in similar component. DER 01-02385			
03-PT-04 Contingency Repair PID 63793	Piping segments DNSM of 32B MSR valve VCD-PCV-7012. 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 31 Condenser.	Piping segments are located approximately 3' South and 3' West of D6/15.7. From El. 36', 3' under grating.	Yes	Yes	No	9321-F-20233 Sheet 2 and 29033	3"	DER 01-02861; ACT-01-57525; PID 63374. Leak in similar component.			

SMALLBORE AUGMENTED INSPECTION POINTS FOR RO12
IP3-ICD-MS-03597 Rev. 1

INSPECTION POINT	DESCRIPTION	LOCATION					PAINT	DRAWING	PIPE SIZE	REMARKS
		SCAFFOLD	INSULATION	Yes	No	9321-F-29013-1; 29023-2				
03-PT-05 Contingency Repair PID 63793	Piping segments from MSR 33B containing two (2) 45° and two (2) 90° elbows and 12" UPSM and DNSM piping.	Piping segments are located approximately 12' West and on the centerline of F/19, El. 48'.	Yes	Yes	No	9321-F-29013-1; 29023-2			3"	Abnormal piping configuration. Wear found on similar components. Combined scaffold with 03-PT-06
03-PT-06 Contingency Repair PID 63793	Piping segments from MSR-32B containing two (2) 90° elbows and 12" UPSM and DNSM piping.	Piping segments are located approximately 12' West and on the centerline of F/19, El. 46'.	Yes	Yes	No	9321-F-29013-1			3"	Calculation reinspect 99-PT-28; WR 99-02585-37; calc. IP3-CALC-MSR-03132; 99UT260. Combined scaffold with 03-PT-05
03-PT-07 Contingency Repair PID 63793	Piping segments from MSR 32B, containing one (1) 90° elbow and 12" UPSM and DNSM piping.	Piping segments are located approximately 2' South and 11' West of F/20, El. 45'.	Yes	Yes	No	9321-F-29023-2			3"	Calculation reinspect 01-PT-04; WR 00-04379-07; calc. IP3-CALC-MULT-03415; 01UT020, -021, -083.
HIGH PRESSURE TURBINE DRAINS										
03-PT-08 Contingency Repair PID 63793	Piping segments to include three (3) 90° elbows and piping UPSM of MS-FCV-1154 and one (1) 90° elbow and piping until it enters the condenser DNSM of MS-FCV-1154.	Piping segments are located on Mezz. Platform under HP Turbine; Southeast corner of Mezz. Approximate El. 32'	No	Yes	Yes	9321-F-20173			1/2", 1.5"	Cancel if inspection performed during forced outage on WR 01-04674-01. Leak report. Previous inspection in R10; 99-02631-04; 99-PT-21; Calc. IP3-CALC-MS-03085
03-PT-09 Contingency Repair PID 63793	Piping segments to include two (2) 45° elbows and piping UPSM of MS-FCV-1157 and one (1) elbow and piping DNSM of MS-FCV-1157 until it enters the condenser.	Piping segments are located on Mezz. Platform under HP Turbine; Southwest corner of Mezz. Approximate El. 31'.	No	Yes	Yes	9321-F-20173			1.5", 2"	Leak report. Cancel if inspection performed during forced outage on WR 01-04674-02. Calculation reinspection. Previous inspection in R10; 99-02631-02; 99-PT-19; Calc. IP3-CALC-MS-03085

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INSPECTION POINT		DESCRIPTION	LOCATION					PIPE SIZE	REMARKS
			SCAFFOLD	INSULATION	PAINT	DRAWING			
03-PT-10 Contingency Repair PID 63793	Piping segments to include 12" piping UPSM and DNSM of orifice fitting. UPSM of the orifice fitting, the following components and 12" UPSM and DNSM piping are included: one (1) 90° elbow and the connection to the 32" HP Turbine exhaust. DNSM of the orifice fitting, the following components and 12" UPSM and DNSM piping are included: tee, connection to the 28" steam pipe and the first 90° elbow.	Piping segments are located on Mezz. Platform under HP Turbine. Orifice located approximately 18' North of 33 condenser and 5' West of the East edge of the El. 30' Mezz. Platform; El. 41'-6".	Yes	Yes	No	9321-F-20173	1" , 1.5"	Calculation reinspection. Point SB-11 IP3-CALC-EX-01172. Combine scaffold with exam EX-02.9-02P; WO IP3-02-24847.	
03-PT-11 Contingency Repair PID 63793	Piping segments to include piping and one (1) 90° elbow UPSM and piping DNSM to the 33 condenser of MS-FCV-1158.	Piping segments are located on the Mezz. Platform under the HP Turbine; Southeast corner of the Mezz.; approximate El. 31'.	No	Yes	Yes	9321-F-20173	1.5" , 2"	Calculation reinspect. Inspection performed in RO9; 97-PT-32, 97UT190; WR 96-03869-32; IP3-CALC-MS-02515.	
03-PT-12 Contingency Repair PID 63793	Piping segments to include piping and three (3) 90° elbows UPSM and piping and one (1) 90° elbow DNSM to the 33 condenser of MS-FCV-1155	Piping segments are located on the Mezz. Platform under the HP Turbine; Southwest corner of the Mezz.; El. 31'.	No	Yes	Yes	9321-F-20173	1.5" , 2"	Calculation. Inspection performed in R10; 99-PT-20, 99UT278; WR 99-02631-03; calc IP3-CALC-MS-03085.	

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INSPECTION POINT		DESCRIPTION	LOCATION					SCAFFOLD			PAINT	DRAWING	PIPE SIZE	REMARKS	
03-PT-13 Contingency Repair PID 63793		Piping segments to include all piping and fittings UPSM and DNSM of MS-FCV-1159 from the first UPSM elbow DNSM to the 33 condenser. Segments to include all piping and fittings associated with the orifice in the bypass around MS-FCV-1159; and 12" UPSM and DNSM piping of orifice and DNSM fittings located off the tee DNSM of MS-FCV-1159.	Piping segments are located on the Mezz. Platform under the HP Turbine; Southwest corner of the Mezz.; approximate El. 32'					Yes	Yes	Yes	9321-F-20173	3/4", 1", 1-1/2", 2"	Small bore report, 97-PT-22. Calculation IP3-CALC-MS-02515 Thinning found on similar component, 01-PT-07.		
EXTRACTION STEAM															
03-PT-14		Piping segments to include piping UPSM of valve 5EX-FCV-1211, LP Steam Dump to 33 Cond., up to first UPSM tee; DNSM piping from valve outlet to 24" DNSM of 10" X 12" conc. Expander.	Piping segments located approximately 4' North and 15' East of A/18, El. 37'					No	Yes	Yes	9321-F-20203 -20023	10", 12"	Leak report (large leak). WR 01-03411-00.		
MAIN STEAM															
03-PT-15 A & B		Piping segments to include all accessible pipe and fittings A) UPSM and DNSM of MS-AOV-1003, and B) UPSM of MS-HCV-416-3	Piping segments located on the Main Turbine 33 Stop Valve, MS-127-3, Northeast side of the HP Turbine, approximate El. 63'.					Yes	Yes	Yes	9321-F-20173	2-1/2", 3"	System Engineer pick. The associated stop valve, MS-127-3 is to be overhauled in R12. Coordinate inspection with valve work. Some sections of piping can be inspected after removal from the HP turbine.		
03-PT-16 A & B		Piping segments to include all accessible pipe and fittings A) UPSM and DNSM of MS-AOV-1004, and B) UPSM of MS-HCV-416-4	Piping segments located on the Main Turbine 34 Stop Valve, MS-127-4, Northwest side of the HP Turbine, approximate El. 63'.					Yes	Yes	Yes	9321-F-20173	2-1/2", 3"	System Engineer pick. The associated stop valve, MS-127-4 is to be overhauled in R12. Coordinate inspection with valve work. Some sections of piping can be inspected after removal from the HP turbine.		

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INSPECTION POINT		DESCRIPTION		LOCATION			SCAFFOLD	INSULATION	PAINT	DRAWING	PIPE SIZE	REMARKS
HEATER DRAINS AND VENTS												
03-PT-17	Piping segments to include FWH 33 subcooler zone vent header containing 12" UPSM and DNSM of the two (2) 90° elbows adjacent to 31 condenser.	Piping segments accessed from the 31 Inlet Waterbox Platform. Ladder located approximately 8' South and 8' West of A/15; pipe approximate El. 31'.	No	No	Yes	9321-F-20763	2"	Small bore report. Wear found on similar components. FWH33 operating vents being replaced in R12. (Project DCP-01-041)				
03-PT-18	Piping segments include piping, tee, blind flange and reducer immediately DNSM of 5HD-LCV-1127D to 5HD-15-6; tee, blind flange and 28" DNSM piping immediately DNSM of valve 5HD-15-6; blind flange of last tee before it enters 31 condenser; and last blind flange DNSM of LCV-7003.	Piping segments located approximately 2' South and 7' West of B4/15.7 El. 13'.	Yes	Yes	Yes	9321-F-20223 Sheet 2, -20783	10", 14"	Small bore report. Leak report. PID 03708. Wear found on similar component. (99-PT-14, valve 1127C). IP2 R15 OE.				
03-PT-19	Piping segments to include elbow and UPSM piping to valve 4HD-LCV-1117A, (34C FWH to 31 Condenser High Level Control Valve); DNSM pipe through isolation valve 4HD-2-3 to connection at 31 Condenser.	Piping segments located approximately 5' South and 4' West of B4/15.7, El. 18'	No	Yes	Yes	9321-F-20223 Sheet 2	3", 6"	Small bore report.				
03-PT-20	Piping segments to include the following 31C FWH Operating Vent piping: connection at heater shell, four (4) 90° elbows DNSM of the heater shell and 12" UPSM and DNSM of each elbow, and 12" UPSM and DNSM of valve 1HD-3-3.	Piping segments located approximately 8' North and 20' West of F/15, El. 39'	No	Yes	Yes	9321-F-20223 Sheet 2	5"	System Engineering pick.				

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INSPECTION POINT		DESCRIPTION	LOCATION	SCAFFOLD			PAINT	DRAWING	PIPE SIZE	REMARKS
					INSULATION					
03-PT-21		Piping segments to include UPSM and DNSM of 2HD-LCV-1121A. Segments include one (1) UPSM elbow plus 12" UPSM piping, 24" DNSM piping of valve 2HD-2-2, 12" UPSM piping of first DNSM elbow, and the first DNSM elbow and piping to the 33 condenser.	Piping segments located approximately 1' South and 5' East of D6/18.8, El. 18'.	No	Yes	Yes	9321-F-20223 Sheet 2	8"	Leak report; PID 03707	
03-PT-22		Piping segments on 32 Heater drain Pump vent piping to include: nozzle at pump case; 1st DNSM elbow inside pump casing and 12" UPSM and DNSM piping; next four (4) DNSM 90° elbows and 12" UPSM and DNSM piping; valve 5HD-35-2 and 12" UPSM and DNSM piping, and inlet nozzle on Heater Drain Tank.	Piping segments located approximately 5' South and 9' West of BB/19, El. 18'.	Yes	Yes	Yes	9321-F-20223 Sheet 1	2"	Small bore report.	
FEEDWATER HEATER SHELL										
03-PT-23		FWH Shell 34C. Areas of lowest PEC readings during previous exam 99-03343-06; rows 24-31; columns U to AF	Shell located approximately 5' South and 27' East of CC3/15, El. 40'	No	Yes	Yes	IP3V-461-7.2-0009	N/A	Operating experience OE11020. Confirm lowest PEC readings taken 8/99. ACT 99-45788	

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INSPECTION POINT		DESCRIPTION		LOCATION		SCAFFOLD			PAINT	DRAWING	PIPE SIZE	REMARKS
MOISTURE SEPARATOR REHEATER DRAINS & VENTS												
03-PT-24	Piping segments to include 31A MS Drain Tank drain line to DCT include UPSM and DNSM of one 45° and two (2) 90° elbows immediately UPSM of 5HD-5-1 and piping DNSM of 5HD-5-1 through 5HD-LCV-1106 to the DCT.	Piping segments located approximately 3' South and 2' East of B9/14, El. 25'.	Yes	Yes	No	9321-F-20803 -20233 Sheet 1	6"	Leak Report. Valve leaking by seat PID 03844. Previous inspection R10P; exam 99UT122; 98-03399-00; wear noted DNSM LCV-1106				
03-PT-25	Piping segments to include 31B MS Drain Tank drain line to DCT; two 90° elbows UPSM of 5HD-5-2 including 12" UPSM and DNSM piping; 31B MS Drain Tank 5HD-LCV-1107 inlet isolation valve; and piping from 5HD-LCV-1107 to connection at DCT.	Piping segments located approximately 3' South of D1/14, El. 25'	Yes	Yes	Yes	9321-F-20803, -20233 Sheet 2	6"	Leak Report. Abnormal system configuration.				
03-PT-26	Piping segments to include four (4) 90° elbows plus 12" UPSM and DNSM piping adjacent to fittings of the MSR 33B Channel Head vent line to the reheater drain tank 33B.	Piping segments located approximately 4' North and 21' West of F/17, El. 58'	Yes	Yes	No	9321-F-20233 Sheet 2	2-1/2"	Abnormal system configuration. Wall thinning noted on similar component.				
03-PT-27	Piping segments to include MSR 33B shell vent line to Moisture Separator Drain Tank 33B.	Piping segments located approximately 6' South and 12' West of F/18, El. 55'	Yes	Yes	No	9321-F-20233 Sheet 2	1"	Wall thinning noted on similar component.				

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INSPECTION POINT		DESCRIPTION		LOCATION		SCAFFOLD			INSULATION		PAINT		DRAWING		PIPE SIZE		REMARKS	
MAIN STEAM TRAPS																		
03-PT-28	Piping segments to include DNSM piping of MST-29 and bypass valve MS-103-5 to 12" DNSM of valve MS-102-18.	Piping segments located approximately 1' South and 1' West of A/16, El. 18'.	No	Yes	Yes	9321-F-20423	3/4", 1", 1-1/4"	Leak report. Carbon steel piping. No recent inspections.										
03-PT-29	Piping segments to include DNSM piping of MST-42 and bypass valve MS-103-6 to 12" DNSM of valve MS-102-22.	Piping segments located approximately 3' North and 2' West of F/17, El. 15'.	No	Yes	Yes	9321-F-20423	3/4", 1", 1-1/4"	Leak report. Carbon steel piping. No recent inspections.										
03-PT-30	Piping segments to include DNSM piping of MST-57 and bypass valve MS-100-25 to 12" DNSM of two (2) 90 degree elbows DNSM of valve MS-99-96.	Piping segments located approximately 19' North and 19' West of B9/13, El. 39'.	No	Yes	Yes	9321-F-20423	3/4", 1"	Leak report. No recent inspections.										
03-PT-31	Piping segments to include DNSM piping of MST-31 and bypass valve MS-100-29 to 12" DNSM of three (3) 90 degree elbows DNSM of valve MS-99-108.	Piping segments located approximately 6' South and 5' West of B9/13, El. 18'.	No	Yes	Yes	9321-F-20423	3/4", 1"	Small bore report, wear on DNSM piping. Inspection 97-PT-17. Abnormal piping configuration DNSM of MS-99-108.										
EXTRACTION STEAM TRAPS																		
03-PT-32	Piping segments to include DNSM piping of EST-17 and bypass valve 3EX-50-2 to 12" DNSM of one (1) 90° elbow and one (1) 45° elbow DNSM of valve 3EX-49-6.	Piping segments located approximately 2' South and 13' East of A/16, El. 18'.	No	Yes	Yes	9321-F-20313	2"	Leak report. No recent inspections, carbon steel piping.										
03-PT-33	Piping segments to include DNSM piping of EST-14 and bypass valve 3EX-50-1 to 12" DNSM of one (1) 90° elbow and one (1) 45° elbow DNSM of valve 3EX-49-3.	Piping segments located approximately 11' North and 13' East of A/17, El. 18'.	No	Yes	Yes	9321-F-20313	2"	No recent inspections, Carbon steel piping.										

03-PT-08* Contingen cy Repair PID	Piping segments from MSR-31B containing two (2) 90° elbows and 12" UPSM and DNSM piping.	Piping segments are located approximately 10' South and 15' West of F/18, El. 46'.	Yes	Yes	No	9321-F-29013-1	3"	Abnormal piping configuration. Wear found on similar components. Elbows UPSM of drain connection w/ valve VCD-22.
03-PT-09* Contingen cy Repair PID	Piping segments from MSR 33B containing four (4) 45° elbows and 12" UPSM and DNSM piping.	Piping segments are located approximately 7' South and 11' West of F/18, El. 47'	Yes	Yes	No	9321-F-29013-1	3"	Abnormal piping configuration. Wear found on similar components.
03-PT-10* Contingen cy Repair PID	Piping segments from MSR 31A containing one (1) 90° elbow and 12" UPSM and DNSM piping.	Piping segments are located approximately 9' North and 5' East of B4/18.8 El. 28'	Yes	Yes	No	9321-F-29023-2	3"	Calculation reinspect 97-00199-02 (location 3,4&5); IP3-CALC-MSR-02284; 97UT008
03-PT-20*	Piping segments to include UPSM and DNSM of MS-PCV-1130; including 24" DNSM piping, located DNSM of the first 45° elbow.	Piping segments located approximately 8' South and 16' East of A/16, approximate El. 32'.	Yes	Yes	Yes	9321-F-20173	10"	Leak report. WR 01-00158-00
HIGH PRESSURE TURBINE EXHAUST								
03-PT-27 A & B *	HP Turbine exhaust crossunder piping. Check of baseline exams performed in 10/99. A) From Manway 1 locations off dogbone, exam 99UT288 page 4 of 9; B) From Manway 2 locations off dogbone, exam 99UT288 page 3 of 9.	Manway 1 located approximately 15' North and 11' East of B4/18.8; El. 40'. Manway 2 located approximately 9' North and 11' East of B4/18.8, El. 40'. One scaffold can accommodate both manways	Yes	Yes	No	Westinghouse drawings 4453D94 (manway 1) and 4453D96 (manway 2)	N/A	ACTS 99-41551. Reinspect baseline measurements taken at various cross under piping locations, taken through ss cladding. UT Inspection report 99UT288. This is documented in WR 97-4468-09.

03-PT-28 A & B *	HP Turbine exhaust crossunder piping. Check of baseline exams performed in 10/99.A) From Manway 10 locations off dogbone, exam 99UT288 page 4 of 9; B) From Manway 11 locations off dogbone, exam 99UT288 page 3 of 9.	Manway 10 located approximately 16' South and 10' West of D6/20, El. 40'. Manway 11 located approximately 24' South and 10' West of D6/20, El. 40'. One scaffold can accommodate both manways.	Yes	Yes	No	Westinghouse drawings 4453D94 (manway 10) and 4453D96 (manway 11)	N/A	ACTS 99-41551. Reinspect baseline measurements taken at various cross under piping locations, taken through ss cladding. UT Inspection report 99UT288. This is documented in WR 97-4468-09.
03-PT-29 *	HP Turbine exhaust crossunder piping. Check of baseline exams performed in 10/99. From Manway in 26-1/2" west crossunder pipe, locations off Manway opening, exam 99UT288 page 7 of 9.	Manway in 26-1/2" West crossunder pipe is located approximately 20' South and 19' East of A/17; El. 47'.	Yes	Yes	No	Westinghouse drawings 868C284 and 870C102; sketch 99UT288 pg. 7 of 9	26-1/2"	ACTS 99-41551. Reinspect baseline measurements taken at various cross under piping locations, taken through ss cladding. UT Inspection report 99UT288. This is documented in WR 97-4468-09.
03-PT-30 *	HP Turbine exhaust crossunder piping. Check of baseline exams performed in 10/99. From Manway 14 locations off Manway opening, exam 99UT288 page 8 of 9.	Manway 14 located approximately 14' South and 16' West of F/19; El. 47'.	Yes	Yes	No	Westinghouse drawing 868C283; sketch 99UT288 pg. 8 of 9	N/A	ACTS 99-41551. Reinspect baseline measurements taken at various cross under piping locations, taken through ss cladding. UT Inspection report 99UT288. This is documented in WR 97-4468-09.
03-PT-40*	Piping segments to include DNSM piping of MST-52 and bypass valve MS-100-18 to 12" DNSM of valve MS-99-76.	Piping segments located approximately 3' North and centerline of D6/14.3, El. 39'.	No	Yes	Yes	9321-F-20423	3/4", 1"	Previous trap leakage, no recent inspections. Carbon steel piping.
03-PT-41*	Piping segments to include DNSM piping of MST-50 and bypass valve MS-100-12 to 12" DNSM of one (1) 90 degree elbow DNSM of valve MS-99-56.	Piping segments located approximately 6' South and 7' West of F/17, El. 39'.	No	Yes	Yes	9321-F-20423	3/4", 1"	No recent inspections, Carbon steel piping.

03-PT-44*	Piping segments to include 3' UPSM and DNSM of point where EST-19 joins discharge from EST-16	Piping segments are located on top of the SWAP lab off column 13.	Yes	No	Yes	9321-F-20313	3/4"; 1-1/2"	Calculation reinspection, IP3-CALC-HD-02493. Previously inspected 97-PT-25. Small bore report
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Changes for Revision1

03-PT-

8	Add calc reference
9	Add calc reference
10	Clarified description. Add note to combine scaffold with EX-02.9-02P
11	Change ref to R09, not R10
13	Clarified description; Added calc ref.; Add YES to scaffold
14	Clarified description , revised WR number in remarks column, added additional drawing reference; added 12" pipe.
17	Clarified location.
18	Revise description to include target plates. IP2 R15 OE. Drawing 20783
19	clarified description UPSM piping TO valve
22	Clarified description Add per WO.
23	Add ACTS reference; Add NO to scaffold
25	Clarified description to include elbow in exam. "... to DCT to include two (2) 90 degree elbows UPSM of valve 5HD-5-2, including 12" upsm & dnsm piping, 31B..."
30	Put insulation check in box