

Indian Point Energy Center 450 Broadway, GSB P.O. Box 249 Buchanan, N.Y. 10511-0249 Tel (914) 734-6700

Fred Dacimo Site Vice President Administration

April 23, 2007

Re: Indian Point Units No. 2 & 3 Docket Nos. 50-247, 50-286 NL-07-039

Document Control Desk U.S. Nuclear Regulatory Commission Mail Stop O-P1-17 Washington, DC 20555-0001

Subject: Indian Point Energy Center Docket No. (Unit 2) 50-247 (License No. DPR-26) Docket No. (Unit 3) 50-286 (License No. DPR-64) License Renewal Application

Dear Sir or Madam:

Pursuant to 10 CFR 51 and 10 CFR 54, Entergy Nuclear Operations, Inc. (ENO) hereby applies for renewal of the operating license for the Indian Point Energy Center Units 2 and 3 (IPEC) to extend the licenses for an additional 20 years beyond the current expiration date. With renewal, the IP2 operating license would be extended from midnight on September 28, 2013 to midnight on September 28, 2033 and IP3 operating license would be extended from midnight on December 12, 2015 to midnight on December 12, 2035.

The enclosed License Renewal Application and related Appendices contain the information required by 10 CFR 54 for the contents of an application.

As required by 10 CFR 54.21(b), current licensing basis changes which have a material effect on the content of this application, including the FSAR Supplement (Appendix A), will be identified at least annually while the application is under NRC review and at least three months prior to the scheduled completion of the NRC review.

This application is submitted in accordance with 10 CFR 2 Subpart A, 10 CFR 50.4, and 10 CFR 50.30. ENO hereby submits the original (plus 80 CDs) of the application pursuant to 10 CFR 50.4(b), 10 CFR 51.55(a), and 10 CFR 54.17(a).

Commitments contained in this application are summarized in the attachment.

Should you have any questions concerning this submittal, please contact Mr. T.R. Jones, Acting Manager of Licensing at (914) 734-6670.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 23rd day of April, 2007

Sincerely,

Fred Dacimo Site Vice President

Attachment: List of Regulatory Commitments

- Enclosures: License Renewal Application
 - Appendix A Updated Final Safety Analysis Report Supplement
 - Appendix B Aging Management Programs and Activities
 - Appendix C Not Used
 - Appendix D Technical Specifications Changes
 - Appendix E Environmental Report

cc: see next page

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cc: with Attachment and Enclosures

Mr. John P. Boska, Project Manager Plant Licensing Branch I-1 Division of Operating Reactor Licensing Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Mail Stop O-8-C2 Washington, DC 20555

cc: without Attachment and Enclosures

Mr. Samuel J. Collins Regional Administrator, Region I U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406-1415

Resident Inspector's Office U.S. Nuclear Regulatory Commission Indian Point Energy Center 450 Broadway Buchanan, NY 10511

Mr. Paul Eddy New York State Department of Public Service 3 Empire State Plaza, 10th Floor Albany, NY 12223-1350

Mr. Peter R. Smith, President New York State Energy, Research, and Development Authority 17 Columbia Circle Albany, NY 12203-6399

cc: (INTERNAL USE ONLY)

Mr. F. G. Burford (M-ECH-521) Mr. J. T. Herron (K-WPO-12A) Mr. M. Kansler (M-ECH-61) Mr. O. Limpias (K-WPO-1 ID) Mr. M. Balduzzi (K-WPO-12A) Mr. J. DeRoy (M-ECH-579) Mr. W. Dennis (K-WPO-12A) Mr. J. McCann (K-WPO-12C) Mr. G. G. Young (N-GSB-45) Mr. M. D. Stroud (N-GSB-45) Corporate File (3)

ATTACHMENT to NL-07-039

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List of Regulatory Commitments

ENTERGY NUCLEAR OPERATIONS, INC. INDIAN POINT UNIT 2 AND 3 NUCLEAR POWER PLANTS DOCKET NOS. 50-247 AND 50-286

List of Regulatory Commitments

The following table identifies those actions committed to by Entergy in this document. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
1	Enhance the Aboveground Steel Tanks Program for IP2 and IP3 to perform thickness measurements of the bottom surfaces of the condensate storage tanks, city water tank, and fire water tanks once during the first ten years of the period of extended operation.	IP2: September 28, 2013 IP3: December 12, 2015	A.2.1.1 A.3.1.1 B.1.1
	Enhance the Aboveground Steel Tanks Program for IP2 and IP3 to require trending of thickness measurements when material loss is detected.		
2	Enhance the Bolting Integrity Program for IP2 and IP3 to clarify that actual yield strength is used in selecting materials for low susceptibility to SCC and clarify the prohibition on use of lubricants containing MoS ₂ for bolting.	IP2: September 28, 2013 IP3: December 12, 2015	A.2.1.2 A.3.1.2 B.1.2
3	Implement the Buried Piping and Tanks Inspection Program for IP2 and IP3 as described in LRA Section B.1.6.	IP2: September 28, 2013 IP3: December 12, 2015	A.2.1.5 A.3.1.5 B.1.6

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
4	Enhance the Diesel Fuel Monitoring Program to include cleaning and inspection of the IP2 GT-1 gas turbine fuel oil storage tanks, IP2 and IP3 EDG fuel oil day tanks, IP2 SBO/Appendix R diesel generator fuel oil day tank, and IP3 Appendix R fuel oil storage tank and day tank once every ten years.	IP2: September 28, 2013 IP3: December 12, 2015	A.2.1.8 A.3.1.8 B.1.9
	Enhance the Diesel Fuel Monitoring Program to include quarterly sampling and analysis of the IP2 SBO/Appendix R diesel generator fuel oil day tank, IP2 security diesel fuel oil day tank, and IP3 Appendix R fuel oil storage tank. Particulates, water and sediment checks will be performed on the samples. Filterable solids acceptance criterion will be less than or equal to 10mg/I. Water and sediment acceptance criterion will be less than or equal to 0.05%.		
	Enhance the Diesel Fuel Monitoring Program to include thickness measurement of the bottom surface of the following tanks once every ten years. IP2: EDG fuel oil storage tanks, EDG fuel oil day tanks, SBO/Appendix R diesel generator fuel oil day tank, GT-1 gas turbine fuel oil storage tanks, and diesel fire pump fuel oil storage tank; IP3: EDG fuel oil day tanks, Appendix R fuel oil storage tank, and diesel fire pump fuel oil storage tank.		
	Enhance the Diesel Fuel Monitoring Program to change the analysis for water and particulates to a quarterly frequency for the following tanks. IP2: GT-1 gas turbine fuel oil storage tanks and diesel fire pump fuel oil storage tank; IP3: Appendix R fuel oil day tank and diesel fire pump fuel oil storage tank.		
	Enhance the Diesel Fuel Monitoring Program to specify acceptance criteria for thickness measurements of the fuel oil storage tanks within the scope of the program.		
5	Enhance the External Surfaces Monitoring Program for IP2 and IP3 to include periodic inspections of systems in scope and subject to aging management review for license renewal in accordance with 10 CFR 54.4(a)(1) and (a)(3). Inspections shall include areas surrounding the subject systems to identify hazards to those systems. Inspections of nearby systems that could impact the subject systems will include SSCs that are in scope and subject to aging management review for license renewal in accordance with 10 CFR 54.4(a)(2).	IP2: September 28, 2013 IP3: December 12, 2015	A.2.1.10 A.3.1.10 B.1.11

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
6	Enhance the Fatigue Monitoring Program for IP2 to monitor steady state cycles and feedwater cycles or perform an evaluation to determine monitoring is not required. Review the number of allowed events and resolve discrepancies between reference documents and monitoring procedures.	IP2: September 28, 2013	A.2.1.11 A.3.1.11 B.1.12
	Enhance the Fatigue Monitoring Program for IP3 to include all the transients identified. Assure all fatigue analysis transients are included with the lowest limiting numbers. Update the number of design transients accumulated to date.	IP3: December 12, 2015	
7	Enhance the Fire Protection Program to inspect external surfaces of the IP3 RCP oil collection systems for loss of material each refueling cycle.	IP2: September 28, 2013	A.2.1.12 A.3.1.12 B.1.13
	Enhance the Fire Protection Program to explicitly state that the IP2 and IP3 diesel fire pump engine sub-systems (including the fuel supply line) shall be observed while the pump is running. Acceptance criteria will be revised to verify that the diesel engine does not exhibit signs of degradation while running; such as fuel oil, lube oil, coolant, or exhaust gas leakage.	IP3: December 12, 2015	
	Enhance the Fire Protection Program to specify that the IP2 and IP3 diesel fire pump engine carbon steel exhaust components are inspected for evidence of corrosion and cracking at least once each operating cycle.		
	Enhance the Fire Protection Program for IP3 to visually inspect the cable spreading room, 480V switchgear room, and EDG room CO_2 fire suppression system for signs of degradation, such as corrosion and mechanical damage at least once every six months.		

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#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
8	Enhance the Fire Water Program to include inspection of IP2 and IP3 hose reels for evidence of corrosion. Acceptance criteria will be revised to verify no unacceptable signs of degradation.	IP2: September 28, 2013 IP3:	A.2.1.13 A.3.1.13 B.1.14
	Enhance the Fire Water Program to inspect a sample of IP2 and IP3 sprinkler heads required for 10 CFR 50.48 using guidance of NFPA 25 (2002 edition), Section 5.3.1.1.1 before the end of the 50-year sprinkler head service life and at 10-year intervals thereafter during the extended period of operation to ensure that signs of degradation, such as corrosion, are detected in a timely manner.	December 12, 2015	
	Enhance the Fire Water Program to perform wall thickness evaluations of IP2 and IP3 fire protection piping on system components using non-intrusive techniques (e.g., volumetric testing) to identify evidence of loss of material due to corrosion. These inspections will be performed before the end of the current operating term and at intervals thereafter during the period of extended operation. Results of the initial evaluations will be used to determine the appropriate inspection interval to ensure aging effects are identified prior to loss of intended function.		
	Enhance the Fire Water Program to inspect the internal surface of the IP3 foam based fire suppression tanks. Acceptance criteria will be enhanced to verify no significant corrosion.		

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
9	Enhance the Flux Thimble Tube Inspection Program for IP2 and IP3 to implement comparisons to wear rates identified in WCAP-12866. Include provisions to compare data to the previous performances and perform evaluations regarding change to test frequency and scope.	IP2: September 28, 2013 IP3: December 12, 2015	A.2.1.15 A.3.1.15 B.1.16
	Enhance the Flux Thimble Tube Inspection Program for IP2 and IP3 to specify the acceptance criteria as outlined in WCAP-12866 or other plant-specific values based on evaluation of previous test results.		
	Enhance the Flux Thimble Tube Inspection Program for IP2 and IP3 to direct evaluation and performance of corrective actions based on tubes that exceed or are projected to exceed the acceptance criteria. Also stipulate that flux thimble tubes that cannot be inspected over the tube length and cannot be shown by analysis to be satisfactory for continued service, must be removed from service to ensure the integrity of the reactor coolant system pressure boundary.		

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
10	Enhance the Heat Exchanger Monitoring Program for IP2 and IP3 to include the following heat exchangers in the scope of the program.	IP2: September 28, 2013	A.2.1.16 A.3.1.16 B.1.17
	Safety injection pump lube oil heat exchangers	IP3:	
	RHR heat exchangers	December 12, 2015	
	RHR pump seal coolers		
	 Non-regenerative heat exchangers 		
	Charging pump seal water heat exchangers		
	Charging pump fluid drive coolers		
	 Instrument air heat exchangers (IP3 only) 		
	Spent fuel pit heat exchangers		
	 Secondary system steam generator sample coolers 		
	Waste gas compressor heat exchangers		
	 SBO/Appendix R diesel jacket water heat exchanger (IP2 only) 		
	Enhance the Heat Exchanger Monitoring Program for IP2 and IP3 to perform visual inspection on heat exchangers where non-destructive examination, such as eddy current inspection, is not possible due to heat exchanger design limitations.		
	Enhance the Heat Exchanger Monitoring Program for IP2 and IP3 to include consideration of material- environment combinations when determining sample population of heat exchangers.		
	Enhance the Heat Exchanger Monitoring Program for IP2 and IP3 to establish minimum tube wall thickness for the new heat exchangers identified in the scope of the program. Establish acceptance criteria for heat exchangers visually inspected to include no unacceptable signs of degradation.		
11	Enhance the ISI Program for IP2 and IP3 to provide periodic inspections to confirm the absence of aging effects for lubrite sliding supports used in the steam generator and reactor coolant pump support systems.	IP2: September 28, 2013 IP3: December 12, 2015	A.2.1.17 A.3.1.17 B.1.18

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#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
12	Enhance the Masonry Wall Program for IP2 and IP3 to specify that the IP1 intake structure is included in the program.	IP2: September 28, 2013	A.2.1.18 A.3.1.18 B.1.19
		IP3: December 12, 2015	
13	Enhance the Metal-Enclosed Bus Inspection Program to add IP2 480V bus associated with substation A to the scope of bus inspected.	IP2: September 28, 2013	A.2.1.19 A.3.1.19 B.1.20
	Enhance the Metal-Enclosed Bus Inspection Program for IP2 and IP3 to visually inspect the external surface of MEB enclosure assemblies for loss of material at least once every 10 years. The acceptance criterion will be no significant loss of material.	IP3: December 12, 2015	
	Enhance the Metal-Enclosed Bus Inspection Program for IP2 and IP3 to inspect bolted connections visually at least once every five years or at least once every ten years using thermography.		
14	Implement the Non-EQ Bolted Cable Connections Program for IP2 and IP3 as described in LRA Section B.1.22.	IP2: September 28, 2013	A.2.1.21 A.3.1.21 B.1.22
		IP3: December 12, 2015	
15	Implement the Non-EQ Inaccessible Medium-Voltage Cable Program for IP2 and IP3 as described in LRA Section B.1.23.	IP2: September 28, 2013	A.2.1.22 A.3.1.22 B.1.23
		IP3: December 12, 2015	
16	Implement the Non-EQ Instrumentation Circuits Test Review Program for IP2 and IP3 as described in LRA Section B.1.24.	IP2: September 28, 2013	A.2.1.23 A.3.1.23 B.1.24
		IP3: December 12, 2015	

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
17	Implement the Non-EQ Insulated Cables and Connections Program for IP2 and IP3 as described in LRA Section B.1.25.	IP2: September 28, 2013	A.2.1.24 A.3.1.24 B.1.25
		IP3: December 12, 2015	
18	Enhance the Oil Analysis Program for IP2 to sample and analyze lubricating oil used in the SBO/Appendix R diesel generator consistent with oil analysis for other site diesel generators.	IP2: September 28, 2013 IP3:	A.2.1.25 A.3.1.25 B.1.26
	Enhance the Oil Analysis Program for IP2 and IP3 to sample and analyze generator seal oil and turbine hydraulic control oil.	December 12, 2015	
	Enhance the Oil Analysis Program for IP2 and IP3 to formalize preliminary oil screening for water and particulates and laboratory analyses including defined acceptance criteria for all components included in the scope of this program. The program will specify corrective actions in the event acceptance criteria are not met.		
	Enhance the Oil Analysis Program for IP2 and IP3 to formalize trending of preliminary oil screening results as well as data provided from independent laboratories.		

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
19	Implement the One-Time Inspection Program for IP2 and IP3 as described in LRA Section B.1.27.	IP2: September 28, 2013	A.2.1.26 A.3.1.26 B.1.27
		IP3: December 12, 2015	
20	Implement the One-Time Inspection – Small Bore Piping Program for IP2 and IP3 as described in LRA Section B.1.28.	IP2: September 28, 2013	A.2.1.27 A.3.1.27 B.1.28
		IP3: December 12, 2015	
21	Enhance the Periodic Surveillance and Preventive Maintenance Program for IP2 and IP3 as necessary to assure that the effects of aging will be managed such that applicable components will continue to perform their intended functions consistent with the current licensing basis through the period of extended operation.	IP2: September 28, 2013 IP3: December 12, 2015	A.2.1.28 A.3.1.28 B.1.29
22	Enhance the Reactor Vessel Surveillance Program for IP2 and IP3 revising the specimen capsule withdrawal schedules to draw and test a standby capsule to cover the peak reactor vessel fluence expected through the end of the period of extended operation.	IP2: September 28, 2013 IP3: December 12,	A.2.1.31 A.3.1.31 B.1.32
	Enhance the Reactor Vessel Surveillance Program for IP2 and IP3 to require that tested and untested specimens from all capsules pulled from the reactor vessel are maintained in storage.	2015	
23	Implement the Selective Leaching Program for IP2 and IP3 as described in LRA Section B.1.33.	IP2: September 28, 2013	A.2.1.32 A.3.1.32 B.1.33
		IP3: December 12, 2015	
24	Enhance the Steam Generator Integrity Program for IP2 and IP3 to require that the results of the condition monitoring assessment are compared to the operational assessment performed for the prior operating cycle with differences evaluated.	IP2: September 28, 2013 IP3: December 12,	A.2.1.34 A.3.1.34 B.1.35
25	Enhance the Structures Monitoring Program to explicitly specify that the following structures are	2015 IP2: September 28,	A.2.1.35 A.3.1.35

#	COMMITMENT		Related LRA Section
<u> </u>	included in the program.	2013	B.1.36
	 Appendix R diesel generator foundation (IP3) Appendix R diesel generator fuel oil tank vault (IP3) Appendix R diesel generator switchgear and enclosure (IP3) city water storage tank foundation condensate storage tanks foundation (IP3) containment access facility and annex (IP3) discharge canal (IP2/3) emergency lighting poles and foundations (IP2/3) fire pumphouse (IP2) fire protection pumphouse (IP3) fire water storage tank foundations (IP2/3) gas turbine 1 fuel storage tank foundation maintenance and outage building-elevated passageway (IP2) new station security building (IP2) nuclear service building (IP1) primary water storage tank foundation (IP3) security access and office building (IP3) service water pipe chase (IP2/3) superheater stack transformer/switchyard support structures (IP2) waste holdup tank pits (IP2/3) 	2013 IP3: December 12, 2015	В.1.36
	 Enhance the Structures Monitoring Program for IP2 and IP3 to clarify that in addition to structural steel and concrete, the following commodities are inspected for each structure as applicable. cable trays and supports concrete portion of reactor vessel supports conduits and supports cranes, rails and girders equipment pads and foundations fire proofing (pyrocrete) HVAC duct supports jib cranes manholes and duct banks manways, hatches and hatch covers monorails new fuel storage racks 		

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#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
	sumps, sump screens, strainers and flow barriers		
	Enhance the Structures Monitoring Program for IP2 and IP3 to inspect inaccessible concrete areas that are exposed by excavation for any reason. IP2 and IP3 will also inspect inaccessible concrete areas in environments where observed conditions in accessible areas exposed to the same environment indicate that significant concrete degradation is occurring.		
	Enhance the Structures Monitoring Program for IP2 and IP3 to perform inspections of elastomers (seals, gaskets, seismic joint filler, and roof elastomers) to identify cracking and change in material properties and for inspection of aluminum vents and louvers to identify loss of material.		
	Enhance the Structures Monitoring Program for IP2 and IP3 to perform an engineering evaluation of groundwater samples to assess aggressiveness of groundwater to concrete on a periodic basis (at least once every five years). IP2 and IP3 will obtain samples from a well that is representative of the ground water surrounding below-grade site structures. Samples will be monitored for sulfates, pH and chlorides.		
26	Implement the Thermal Aging Embrittlement of Cast Austenitic Stainless Steel (CASS) Program for IP2 and IP3 as described in LRA Section B.1.37.	IP2: September 28, 2013	A.2.1.36 A.3.1.36 B.1.37
		IP3: December 12, 2015	
27	Implement the Thermal Aging and Neutron Irradiation Embrittlement of Cast Austenitic Stainless Steel (CASS) Program for IP2 and IP3 as described in LRA Section B.1.38.	IP2: September 28, 2013 IP3:	A.2.1.37 A.3.1.37 B.1.38
		December 12, 2015_	

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
28	Enhance the Water Chemistry Control – Closed Cooling Water Program to maintain water chemistry of the IP2 SBO/Appendix R diesel generator cooling system per EPRI guidelines.	IP2: September 28, 2013 IP3:	A.2.1.39 A.3.1.39 B.1.40
	Enhance the Water Chemistry Control – Closed Cooling Water Program to maintain the IP2 and IP3 security generator cooling water system pH within limits specified by EPRI guidelines.	December 12, 2015	
29	Enhance the Water Chemistry Control – Primary and Secondary Program for IP2 to test sulfates monthly in the RWST with a limit of <150 ppb.	IP2: September 28, 2013	A.2.1.40 B.1.41
30	For aging management of the reactor vessel internals, IPEC will (1) participate in the industry programs for investigating and managing aging effects on reactor internals; (2) evaluate and implement the results of the industry programs as applicable to the reactor internals; and (3) upon completion of these programs, but not less than 24 months before entering the period of extended operation, submit an inspection plan for reactor internals to the NRC for review and approval.	IP2: September 28, 2011 IP3: December 12, 2013	A.2.1.41 A.3.1.41
31	Additional P-T curves will be submitted as required per 10 CFR 50, Appendix G prior to the period of extended operation as part of the Reactor Vessel Surveillance Program.	IP2: September 28, 2013 IP3: December 12, 2015	A.2.2.1.2 A.3.2.1.2 4.2.3
32	As required by 10 CFR 50.61(b)(4), IP3 will submit a plant-specific safety analysis for plate B2803-3 to the NRC three years prior to reaching the RT_{PTS} screening criterion. Alternatively, the site may choose to implement the revised PTS (10 CFR 50.61) rule when approved, which would permit use of Regulatory Guide 1.99, Revision 3.	IP3: December 12, 2015	A.3.2.1.4 4.2.5

#	COMMITMENT	IMPLEMENTATION SCHEDULE	Related LRA Section
33	At least 2 years prior to entering the period of extended operation, for the locations identified in NUREG/CR-6260 for PWRs of the IPEC vintage, IP2 and IP3 will implement one or more of the following:	IP2: September 28, 2013 IP3:	A.2.2.2.3 A.3.2.2.3 4.3.3
	(1) Refine the fatigue analyses to determine valid CUFs less than 1 when accounting for the effects of reactor water environment. This includes applying the appropriate Fen factors to valid CUFs determined in accordance with one of the following:	December 12, 2015	
	1. For locations, including NUREG/CR-6260 locations, with existing fatigue analysis valid for the period of extended operation, use the existing CUF to determine the environmentally adjusted CUF.		
	2. In addition to the NUREG/CR-6260 locations, more limiting plant-specific locations with a valid CUF may be evaluated. In particular, the pressurizer lower shell will be reviewed to ensure the surge nozzle remains the limiting component		
	 Representative CUF values from other plants, adjusted to or enveloping the IPEC plant specific external loads may be used if demonstrated applicable to IPEC. 		
	4. An analysis using an NRC-approved version of the ASME code of NRC-approved alternative (e.g., NRC-approved code case) may be performed to determine a valid CUF.		
	(2) Manage the effects of aging due to fatigue at the affected locations by an inspection program that has been reviewed and approved by the NRC (e.g., periodic non-destructive examination of the affected locations at inspection intervals to be determined by a method acceptable to the NRC).	Option 2 IP2: September 28, 2011	
	(3) Repair or replace the affected locations before exceeding a CUF of 1.0.	IP3: December 12, 2013	
	Should IPEC select the option to manage the aging effects due to environmental-assisted fatigue during the period of extended operation, details of the aging management program such as scope, qualification, method, and frequency will be submitted to the NRC at least 2 years prior to the period of extended operation.		

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