

**Southern Nuclear
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June 27, 2008

Docket No.: 50-364

NL-08-0884

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555-0001

Joseph M. Farley Nuclear Plant – Unit 2
Request for Additional Information (RAI) for
Proposed Alternative FNP-ISI-ALT-01

Ladies and Gentlemen:

In letter dated October 8, 2007, Southern Nuclear Company (SNC) requested, pursuant to 10 CFR 50.55a(a)(3)(i), NRC approval of proposed alternative FNP-ISI-ALT-01, Version 1.0 to allow Farley Nuclear Plant (FNP) Unit 2 ISI interval dates to correspond to the Unit 1 ISI interval dates.

This alternative was requested to remain in effect throughout the licensed life of FNP-2.

On May 8, 2008, a NRC RAI was received regarding the proposed alternative. The SNC response to the requested information is provided in the Enclosure.

If you have any questions, please advise.

Sincerely,

A handwritten signature in black ink that reads "Mark J. Ajluni".

M. J. Ajluni
Manager, Nuclear Licensing

MJA/BDM/daj

Enclosure: SNC Response to NRC Request for Additional Information
FNP-ISI-ALT-01, Version 1.0 Proposed Alternative

cc: Southern Nuclear Operating Company
Mr. J. T. Gasser, Executive Vice President
Mr. J. R. Johnson, Vice President – Farley
RTYPE: CFA04.054; LC# 14780

U. S. Nuclear Regulatory Commission
Mr. L. A. Reyes, Regional Administrator
Mr. R. A. Jerve, NRR Project Manager – Farley
Mr. E. L. Crowe, Senior Resident Inspector – Farley

Joseph M. Farley Nuclear Plant – Unit 2

Enclosure

**SNC Response to Request for Additional Information
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1. **Clarify that the current code of record for Farley Nuclear Plant (FNP) Unit 2 third ten-year in-service inspection (ISI) interval is the 1989 Edition of the American Society of Mechanical Engineers (ASME), *Boiler and Pressure Vessel Code*, Section XI, no addenda, and the 2001 Edition of ASME Code, Section XI, through 2003 addenda is for the fourth ten-year ISI interval.**

SNC Response - The code of record for Farley Nuclear Plant (FNP) Unit 2 third ten-year in-service inspection (ISI) interval is the 1989 Edition of the American Society of Mechanical Engineers (ASME), *Boiler and Pressure Vessel Code*, Section XI, no addenda, and the 2001 Edition of ASME Code, Section XI, through 2003 addenda is the code of record for the fourth ten-year ISI interval.

2. **Please provide a table of the remaining ISI and pressure tests required for FNP Unit 2, third period of the third ten-year ISI interval including any deferred requirements prior to the proposed closing of the third ISI ten-year interval. Also provide a separate table of ISI requirements not applicable or required anymore, because of the change to a later code edition for the fourth ten-year ISI interval.**

SNC Response – A list of the scheduled ISI examinations and pressure tests that remained for the third Period of the third Interval and a list of the scheduled ISI examinations and pressure tests for the first Period of the fourth Interval have been provided as a comparison in Tables 2 through 6. As the need arises, changes to the ISI scope may be made based on ALARA, craft support requirements, or other considerations. The *Reconciliation* column in each of the tables show any deletion of examinations no longer required in the fourth Interval because of new requirements and also discusses other deletions/additions.

3. **Please provide clarification on completion of the third ISI interval requirements prior to starting the fourth ISI interval. Discuss how the percentage requirements of the third period of the third ISI interval will be reconciled with the percentage requirements of the fourth ISI interval. Justify the acceptability of not performing all inspections in the first period of the fourth interval that would have been required in the third period of the third interval and would not otherwise have been deleted.**

SNC Response – Percentage requirements were reconciled by evaluating Table 1 to determine if the number of examinations (and therefore the percentage of examinations) decreased, increased, or remained the same when comparing the examinations in the third Period of the third ISI Interval to the examinations in the first Period of the fourth ISI interval. Each of the Code Categories where there are scheduled ISI examinations is addressed below. Additionally, if examinations were deleted, justification is provided for the deletion.

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- For Categories B-A, B-B, B-D, B-G-1, B-K, B-N-1, B-N-2, B-N-3, B-O, and C-A the number of examinations in the third Period of the third Interval remained the same or increased when moved to the first Period of the fourth Interval. Therefore, the examinations for each of these ASME Categories meet the third Interval ISI requirements (as well as the fourth ISI Interval requirements).
- For Categories B-P, C-H, and D-B (Category D-A tests per the 1989 Edition of Section XI), the scope and frequency of pressure tests in the third Period of the third Interval remained the same when moved to the first Period of the fourth Interval.
- For Category C-B, one Residual Heat Removal (RHR) Heat exchanger examination was deleted in the first Period of the fourth Interval that was originally scheduled for the third Period of the third Interval. For the steam generators the examination remains the same. For the RHR Heat Exchangers, Code Case N-706 (approved for generic use by the NRC in Regulatory Guide 1.147, Revision 15) will be used to eliminate required volumetric examinations during the fourth Interval if the conditions of the Code Case are satisfied. The basis for the code case is that : (1) the heat exchangers were carefully constructed to nuclear quality requirements, (2) the heat exchangers were inspected during construction, and then during service, and there is no history of degradation, (3) the flaw tolerance of the components is very high, since their duty cycle is mild, and they are constructed of stainless steel, and (4) the risk is not significantly changed by elimination of the volumetric examinations (visual examinations are still required).
- For Category C-C, two examinations were deleted in the first Period of the fourth Interval that were originally scheduled for the third Period of the third Interval. These examinations were deleted because a re-calculation of the examination requirements indicated that more examinations than necessary were scheduled. Both the third Interval and fourth Interval require that a minimum of 19 examinations be performed during the interval. Per Code Case N-598 (used for the third Interval), and at least 25% of the required examinations (or five examinations) need to be completed in the third period. Fifteen examinations were completed by the end of the second Period of the third Interval and seven more (in lieu of the nine examinations originally scheduled for the third Period of the third Interval) are now scheduled for the first Period of the fourth ISI Interval; therefore, the third ISI Interval requirements are satisfied. Additionally, per the 2001 Edition of ASME Code, Section XI, through the 2003 addenda, 16 to 50% of the examinations should be performed during the first period. The seven examinations (35%) meet the fourth Interval requirements.
- For Category D-A, one examination was deleted in the first Period of the fourth Interval that was originally scheduled for the third Period of the third Interval. This examination was deleted because a re-calculation of the

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examination requirements indicated that more examinations than necessary were scheduled. The third Interval requires that a minimum of 28 examinations be performed during the interval. Per Code Case N-598 (used for the third Interval), at least 25% of the required examinations (or seven examinations) need to be completed in the third period. Nineteen examinations were completed by the end of the second Period of the third Interval and nine more (in lieu of the ten examinations originally scheduled for the third Period of the third Interval) are now scheduled for the first Period of the fourth ISI Interval; therefore, the third ISI Interval requirements are satisfied. For the fourth Interval, 26 examinations need to be performed during the interval. Per the 2001 Edition of ASME Code, Section XI, through the 2003 addenda, 16 to 50% of the examinations should be performed during the first period. The nine examinations (35%) meet the fourth Interval requirements.

- For Category F-A, 28 examinations were deleted in the first Period of the fourth Interval that were originally scheduled for the third Period of the third Interval. These examinations were deleted because a re-calculation of the examination requirements indicated that more examinations than necessary were scheduled. The third Interval requires that a minimum of 266 examinations be performed during the interval. Per Code Case N-598 (used for the third Interval), at least 25% of the required examinations (or 67 examinations) need to be completed in the third period. One hundred and eighty one examinations were completed by the end of the second Period of the third Interval and 87 more (in lieu of the 115 examinations originally scheduled for the third Period of the third Interval) are now scheduled for the first Period of the fourth ISI Interval; therefore, the third ISI Interval requirements are satisfied. For the fourth Interval, 268 examinations need to be performed during the interval. Per the 2001 Edition of ASME Code, Section XI, through the 2003 addenda, 16 to 50% of the examinations should be performed during the first period. The 87 examinations (32%) meet the fourth Interval requirements.
- For Category R-A the number of examinations in Period 3 of the third Interval increased due to Living Program requirements when moved to Period 1 of the fourth Interval. Therefore, the examinations for each of these ASME Categories meet the third Interval ISI requirements (as well as the fourth ISI Interval requirements).

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TABLE 1 COMPLIANCE TABLE								
	Third Interval Volumetric Exams				Fourth Interval Volumetric Exams			COMMENT
Cat.	Total Required Exams	Total Scheduled Exams	Period 3 Scheduled Exams		Total Required Exams	Total Scheduled Exams	Period 1 Scheduled Exams	
B-A	9	9	9		9	9	9	
B-B	5	5	2		5	5	2	
B-D	30	30	18		30	30	20	To optimize the scheduling (per Code Case N-624) two of the components examined in 2007 were scheduled in the 1 st Period instead of later in the 4 th interval.
B-G-1	5	5	5		5	5	5	
B-K	3	3	2		4	4	2	
B-N-1	1	1	1		1	1	1	
B-N-2	4	4	4		4	4	4	
B-N-3	1	1	1		1	1	1	
B-O	2	3	2		5	5	5	Three additional examinations were added because deferral to the end of the interval (now the 1 st Period of the 4 th interval) is permissible.
B-P	-	-	-		-	-	-	A visual examination (VT-2) of Class 1 pressure retaining components continues to be performed each refueling outage during a system pressure test. (Note: The exam columns to the left are for volumetric exams only and thus no numbers are given for the visual exam.)
C-A	11	4	2		2	2	2	The number of required exams in the 3 rd Interval included old

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**TABLE 1
COMPLIANCE TABLE**

Cat.	Third Interval Volumetric Exams				Fourth Interval Volumetric Exams			COMMENT
	Total Required Exams	Total Scheduled Exams	Period 3 Scheduled Exams		Total Required Exams	Total Scheduled Exams	Period 1 Scheduled Exams	
								and new steam generators.
C-B	6	6	3		2	2	2	The number of required exams in the 3 rd Interval included old and new steam generators. Code Case N-706 was used to eliminate the RHR Heat Exchanger volumetric examination.
C-C	19	24	9		19	19	7	There is a net difference of 2 fewer exams being performed in the 4 th Interval. The basis is that more examinations than necessary were scheduled in the 3 rd Interval.
C-H	-	-	-		-	-	-	A visual examination (VT-2) of Class 2 pressure retaining components continues to be performed each inspection period during a system pressure test. (Note: The exam columns to the left are for volumetric exams only and thus no numbers are given for the visual exam.)
D-A	28	29	10		26	26	9	There is a net difference of 1 fewer welded attachment exam being performed in the 4 th Interval. The basis is that more examinations than necessary were scheduled in the 3 rd Interval. (Note: Category D-A in the Third Interval included pressure testing while in the Fourth Interval the Code moved pressure testing to Category D-B).
D-B	-	-	-		-	-	-	A visual examination (VT-2) of the Class 3 pressure retaining components continues to be performed each inspection period during a system pressure test. (Note: Category D-B did not exist during the Third Interval, instead, pressure testing was a subset of Category D-A. The exam columns to the left are for volumetric exams only and thus no numbers are given for the visual exam.)
F-A	266	296	115		268	268	87	There is a net difference of 28 fewer exams being performed in the 4 th Interval. The basis is that more examinations than necessary were scheduled in the 3 rd Interval.

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TABLE 1 COMPLIANCE TABLE								
Cat.	Third Interval Volumetric Exams				Fourth Interval Volumetric Exams			COMMENT
	Total Required Exams	Total Scheduled Exams	Period 3 Scheduled Exams		Total Required Exams	Total Scheduled Exams	Period 1 Scheduled Exams	
R-A	136	137	46		141	141	55	Due to Living Program requirements there are additional examinations being performed during the 4 th Interval. With Living Program enhancements the scope continues to be subject to changes.

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TABLE 2 THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1 COMPONENTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
	Item	Component	Item	Component	
B-A	B1.11	APR1-1100-2	B1.11	APR1-1100-2	No change. All deferred examinations in 3 rd Interval, 3 rd Period now scheduled in 4 th Interval, 1 st Period.
	B1.11	APR1-1100-5	B1.11	APR1-1100-5	
	B1.11	APR1-1100-8	B1.11	APR1-1100-8	
	B1.12	APR1-1100-3	B1.12	APR1-1100-3	
	B1.12	APR1-1100-4	B1.12	APR1-1100-4	
	B1.12	APR1-1100-6	B1.12	APR1-1100-6	
	B1.12	APR1-1100-7	B1.12	APR1-1100-7	
	B1.21	APR1-1100-16	B1.21	APR1-1100-16	
	B1.30	APR1-1100-1	B1.30	APR1-1100-1	
B-B	B2.11	APR1-2100-7	B2.11	APR1-2100-7	No change. All examinations in the 3 rd Interval, 3 rd Period are now scheduled in the 4 th Interval, 1 st Period.
	B2.12	APR1-2100-3	B2.12	APR1-2100-3	
B-D	B3.100	APR1-1100-17IR	B3.100	APR1-1100-17IR	No examinations were deleted. Added additional examinations to the 4 th Interval, 1 st Period. The steam generators were replaced in 2001 and baseline was performed. The new generators did not have nozzle-to shell welds. Four of the six inner radii (B3.140) were examined in the 2 nd Period and the remaining two were scheduled for examination during the 3 rd Period, 3 rd Interval. All examinations in the 3 rd Interval, 3 rd Period are now scheduled in the 4 th Interval, 1 st Period. To optimize the scheduling (per Code Case N-624) two of the components examined in 2007 were scheduled in the 1 st Period instead of later in the 4 th Interval.
	B3.100	APR1-1100-18IR	B3.100	APR1-1100-18IR	
	B3.100	APR1-1100-19IR	B3.100	APR1-1100-19IR	
	B3.100	APR1-1100-20IR	B3.100	APR1-1100-20IR	
	B3.100	APR1-1100-21IR	B3.100	APR1-1100-21IR	
	B3.100	APR1-1100-22IR	B3.100	APR1-1100-22IR	
	B3.110	APR1-2100-13	B3.110	APR1-2100-13	
	B3.110	APR1-2100-14	B3.110	APR1-2100-14	
	B3.120	APR1-2100-13IR	B3.120	APR1-2100-13IR	
	B3.120	APR1-2100-14IR	B3.120	APR1-2100-14IR	
	B3.140	APR1-3300-IR1R	B3.140	APR1-3300-IR1R	
	B3.140	APR1-3300-IR2R	B3.140	APR1-3300-IR2R	

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TABLE 2 THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1 COMPONENTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
	Item	Component	Item	Component	
	B3.90	APR1-1100-17	B3.90	APR1-1100-17	
	B3.90	APR1-1100-18	B3.90	APR1-1100-18	
	B3.90	APR1-1100-19	B3.90	APR1-1100-19	
	B3.90	APR1-1100-20	B3.90	APR1-1100-20	
	B3.90	APR1-1100-21	B3.90	APR1-1100-21	
	B3.90	APR1-1100-22	B3.90	APR1-1100-22	
	B3.140	---	B3.140	APR1-3100-IR1R	
	B3.140	---	B3.140	APR1-3100-IR2R	
B-E	---	--	--	--	Not a Code Category in the 2001 Edition of Section XI, through 2003 addenda since the VT-2 exams were duplicated in the Category B-P examinations.
B-F	---	--	--	--	Not Used. Farley uses Risk-Informed ISI.
B-G-1	B6.10	APR1-1300-N01 THRU N058	B6.10	APR1-1300-N01 THRU N058	No change except that Item B6.30 is now Item B6.20.
	B6.180	APR1-5300-B01 THRU B024	B6.180	APR1-5300-B01 THRU B024	
	B6.30	APR1-1300-S01 THRU S058	B6.20	APR1-1300-S01 THRU S058	
	B6.40	APR1-1100-L01 THRU L058	B6.40	APR1-1100-L01 THRU L058	
	B6.50	APR1-1300-W01 THRU W058	B6.50	APR1-1300-W01 THRU W058	
B-J	---	--	--	--	Not Used. Farley uses Risk-Informed ISI.
B-K	B10.10	APR1-2100-8	B10.10	APR1-2100-8	No change.
	B10.20	APR1-4201-2SI-R180 (W8)	B10.20	APR1-4201-2SI-R180 (W8)	
B-N-1	B13.10	APR1-1200-VS INT	B13.10	APR1-1200-VS INT	No change.

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TABLE 2 THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1 COMPONENTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
	Item	Component	Item	Component	
B-N-2	B13.60	APR1-1100-SUP-CS-1	B13.60	APR1-1100-SUP-CS-1	No change.
	B13.60	APR1-1100-SUP-CS-2	B13.60	APR1-1100-SUP-CS-2	
	B13.60	APR1-1100-SUP-CS-3	B13.60	APR1-1100-SUP-CS-3	
	B13.60	APR1-1100-SUP-CS-4	B13.60	APR1-1100-SUP-CS-4	
B-N-3	B13.70	APR1-1200-C-SS	B13.70	APR1-1200-C-SS	No change.
B-O	B14.10	APR1-1300-43R-L	B14.10	APR1-1300-43R-L	No change except that 3 additional welds were added because deferral to the end of the interval (now the 1 st Period of the 4 th interval) is permissible.
	B14.10	APR1-1300-43R-U	B14.10	APR1-1300-43R-U	
	B14.10	---	B14.10	APR1-1300-38R	
	B14.10	---	B14.10	APR1-1300-49R-L	
	B14.10	---	B14.10	APR1-1300-49R-U	
B-P	B15.10	A system leakage test (at operating pressure) is performed each refueling outage. At or near the end of the interval a hydrostatic test of all the Class 1 components in the system boundary must be performed in lieu of the system leakage test. The hydrostatic test is performed in accordance with Code Case N-498-4 which allows operating pressure to be used.	B15.10	A system leakage test (at operating pressure) is performed each refueling outage, except that at or near the end of the interval the pressurized boundary must be extended to all Class 1 pressure-retaining components in the system boundary.	The leakage test with the pressurized boundary extended to all Class 1 components in the system boundary will be performed during the 1 st Period of the 4 th Interval. This test is equivalent to the 3 rd Interval hydrostatic test using Code Case N-498-4.
	B15.11				
	B15.20				
	B15.21				
	B15.30				
	B15.31				
	B15.40				
	B15.41				
	B15.50				
	B15.51				
	B15.60				
	B15.61				
	B15.70				
	B15.71				

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TABLE 2 THIRD INTERVAL (3 RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1 COMPONENTS					
Third Interval (Third Period)			Fourth Interval (First Period)		Reconciliation
Cat	Item	Component	Item	Component	
B-Q	B16.20	Steam Generator tubing in U-Tube Design	B16.20	Steam Generator tubing in U-Tube Design	The extent and frequency of examination shall be governed by the plant Technical Specifications.

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TABLE 3
THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS
CLASS 2 COMPONENTS

Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
Cat	Item	Component	Item	
C-A	C1.20	APR2-3300-6R	C1.20	Same number of exams scheduled; however, steam generators were swapped to optimize the C-A/C-B exams.
	C1.30	APR2-3200-2R	C1.30	
C-B	C2.21	APR2-3100-8R	C2.21	No change except that Code Case N-706 was used to eliminate the RHR Heat Exchanger volumetric examination.
	C2.22	APR2-3100-IR8R	C2.22	
	C2.31	APR2-3500-1(RHR Heat Ex.)	---	
C-C	C3.10	APR2-3200-10R	C3.10	There is a net difference of 2 fewer exams being performed in the 4 th Interval. The basis is that more examinations than necessary were scheduled in the 3 rd Interval.
	C3.20	APR2-4501-2RHR-R130 (W8)	C3.20	
	C3.20	APR2-4506A-RHR-2A4 (WS)	C3.20	
	C3.20	APR2-4511-2SI-R218 (W8)	C3.20	
	C3.20	APR2-4512-CVCS-2A30 (WS)	C3.20	
	C3.20	APR2-4515-2CVC-R205 (W8)	C3.20	
	C3.20	APR2-4517-2CVC-R231 (W8)	C3.20	
	C3.30	APR2-5120-CS-1 (W1)	C3.30	
	C3.30	APR2-5120-CS-4 (W1)	C3.30	
	C3.30	---	C3.30	APR2-5150-CS-1 (WS)
C-D	---	--	--	Not applicable to Farley.
C-F-1	---	--	--	Not Used. Farley uses Risk-Informed ISI.
C-F-2	---	--	--	Not Used. Farley uses Risk-Informed ISI.
C-G	---	--	--	Not applicable to Farley.

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TABLE 3 THIRD INTERVAL (3 RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 2 COMPONENTS					
	Third Interval (Third Period)		Fourth Interval (First Period)		
Cat	Item	Component	Item	Component	Reconciliation
C-H	C7.10 C7.20 C7.30 C7.40 C7.50 C7.60 C7.70 C7.80	A system leakage test (at operating pressure) is performed each period on the Class 2 pressure-retaining components. In lieu of the system leakage test a hydrostatic test is required once during the interval. The hydrostatic test is performed in accordance with Code Case N-498-4 which allows operating pressure to be used.	C7.10	A system leakage test (at operating pressure) is performed each period on the Class 2 pressure-retaining components.	A system leakage test (at operating pressure) will be performed during the 1 st Period of the 4 th Interval. This test is equivalent to the 3 rd Interval hydrostatic test using Code Case N-498-4.

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TABLE 4 THIRD INTERVAL (3 RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1 ST PERIOD) EXAMINATIONS CLASS 3 COMPONENTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
	Item	Component	Item	Component	
D-A	D1.10	D200089-1-SW 501A ATT	D1.10	D200089-1-SW 501A ATT	<p>Third Interval examinations were performed per Code Case N-509 in lieu of the 1989 Code.</p> <p>There is a net difference of 1 fewer exam being performed in the 4th Interval. The basis is that more examinations than necessary were scheduled in the 3rd Interval.</p>
	D1.10	---	D1.10	D205063-CCW HX2C ATT	
	D1.20	EG2-045-2AFW-R44 ATT	D1.20	EG2-045-2AFW-R44 ATT	
	D1.20	EG2-046-2AFW-R85 ATT	D1.20	EG2-046-2AFW-R85 ATT	
	D1.20	EG2-193-2SW-R870 ATT	D1.20	---	
	D1.20	EG2-208-2SW-R805 ATT	D1.20	---	
	D1.20	---	D1.20	EG2-077-2SW-R22 ATT	
	D1.20	EG2-252-CCW-2A17 ATT	D1.20	EG2-252-CCW-2A17 ATT	
	D1.20	EG2-310-2SW-R208Y ATT	D1.20	EG2-310-2SW-R208Y ATT	
	D1.20	EG2-457-2CCW-BR10 ATT	D1.20	EG2-457-2CCW-BR10 ATT	
	D1.20	EG2-472-2CCW-R111 ATT	D1.20	EG2-472-2CCW-R111 ATT	
	D1.20	EG2-497-2SW-R303 ATT		---	
D-B	D1.10	<p>A system leakage test (at operating pressure) is performed each period on the Class 3 pressure-retaining components. In lieu of the system leakage test a hydrostatic test is required once during the interval. The hydrostatic test is performed in accordance with Code Case N-498-4 which allows operating pressure to be used.</p>	D2.10	<p>A system leakage test (at operating pressure) is performed each period on the Class 3 pressure-retaining components.</p>	<p>A system leakage test (at operating pressure) will be performed during the 1st Period of the 4th Interval. This test is equivalent to the 3rd Interval hydrostatic test using Code Case N-498-4.</p> <p>Pressure testing of Class 3 components was changed from Category D-A in the 1989 Edition of Section XI to Category D-B in the 2001 Edition through the 2003 Addenda of Section XI.</p>
	D1.20				
	D1.30				

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TABLE 5 THIRD INTERVAL (3 RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1, 2, AND 3 COMPONENT SUPPORTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
Item	Component	Item	Component		
F-A (Class 1)	F1.10	---	F1.10	APR1-4112-SS-12382	There is a net difference of 28 fewer exams being performed in the 4 th Interval. More examinations than necessary were scheduled in the 3 rd Interval.
	F1.10	APR1-4201-2SI-R184	F1.10	---	
	F1.10	APR1-4202-2SI-R146	F1.10	APR1-4202-2SI-R146	
	F1.10	APR1-4202-2SI-R147	F1.10	---	
	F1.10	APR1-4204-2SI-R137	F1.10	---	
	F1.10	APR1-4205-2RC-R48	F1.10	---	
	F1.10	APR1-4207-2CVC-R658	F1.10	---	
	F1.10	APR1-4300-D-206238	F1.10	---	
	F1.10	APR1-4300-U-202224	F1.10	APR1-4300-U-202224	
	F1.10	APR1-4301-2RC-R22	F1.10	---	
	F1.10	APR1-4301-2RC-R23	F1.10	APR1-4301-2RC-R23	
	F1.10	APR1-4301-2RH-R155	F1.10	---	
	F1.10	---	F1.10	APR1-4301-2RH-R89	
	F1.10	APR1-4301-2RH-R90	F1.10	APR1-4301-2RH-R90	
	F1.10	APR1-4301-2RH-R91	F1.10	APR1-4301-2RH-R91	
	F1.10	APR1-4302-2SI-R168	F1.10	---	
	F1.10	APR1-4302-2SI-R171	F1.10	---	
	F1.10	APR1-4303-2SI-R53X	F1.10	---	
	F1.10	APR1-4304-2SI-R67	F1.10	APR1-4304-2SI-R67	
	F1.10	APR1-4304-2SI-R73	F1.10	---	
	F1.10	APR1-4304-2SI-R74	F1.10	APR1-4304-2SI-R74	
	F1.10	APR1-4307-SS-12356	F1.10	APR1-4307-SS-12356	
	F1.10	APR1-4307-SS-12361	F1.10	APR1-4307-SS-12361	
	F1.10	APR1-4308-SS-12408	F1.10	APR1-4308-SS-12408	
	F1.10	APR1-4308-SS-12411	F1.10	APR1-4308-SS-12411	
	F1.10	APR1-4308-SS-12419	F1.10	APR1-4308-SS-12419	
	F1.10	APR1-4309-SS-12677	F1.10	APR1-4309-SS-12677	

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TABLE 5 THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1, 2, AND 3 COMPONENT SUPPORTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
	Item	Component	Item	Component	
	F1.10	APR1-4502-2RC-R138	F1.10	APR1-4502-2RC-R138	
	F1.10	---	F1.10	APR1-4502-2RC-R139	
	F1.10	APR1-4504-2RC-R140	F1.10	---	
	F1.10	APR1-4504-2RC-R143	F1.10	APR1-4504-2RC-R143	
	F1.10	APR1-4505-SS-12463	F1.10	---	
	F1.10	APR1-4506-SS-12367	F1.10	APR1-4506-SS-12367	
	F1.10	APR1-4506-SS-12368	F1.10	APR1-4506-SS-12368	
	F1.10	---	F1.10	APR1-4101-2RH-R600	
F-A (Class 2)	F1.20	---	F1.20	APR2-1120-2CVC-R634X	
	F1.20	APR2-4201-2MS-R509	F1.20	---	
	F1.20	---	F1.20	APR2-4613-SS-12297	
	F1.20	APR2-4300-2MS-W-C-2	F1.20	APR2-4300-2MS-W-C-2	
	F1.20	APR2-4301-2MS-R502	F1.20	---	
	F1.20	APR2-4505-2SI-R106	F1.20	---	
	F1.20	APR2-4507-2RHR-R73	F1.20	APR2-4507-2RHR-R73	
	F1.20	APR2-4509-2SI-R124	F1.20	---	
	F1.20	APR2-4509A-2SI-R220	F1.20	APR2-4509A-2SI-R220	
	F1.20	APR2-4510-2SI-R123	F1.20	APR2-4510-2SI-R123	
	F1.20	APR2-4511-2SI-R50X	F1.20	---	
	F1.20	APR2-4513-2CVC-R247	F1.20	---	
	F1.20	APR2-4513-CVCS-2A29	F1.20	---	
	F1.20	APR2-4515-2CVC-R205	F1.20	---	
	F1.20	APR2-4515-2CVC-R208	F1.20	---	
	F1.20	APR2-4517-2CVC-R231	F1.20	---	
	F1.20	APR2-4517-2CVC-R265	F1.20	APR2-4517-2CVC-R265	
	F1.20	APR2-4523-2CVC-R241	F1.20	APR2-4523-2CVC-R241	

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TABLE 5 THIRD INTERVAL (3 RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1 ST PERIOD) EXAMINATIONS CLASS 1, 2, AND 3 COMPONENT SUPPORTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
	Item	Component	Item	Component	
	F1.20	APR2-4525-2CVC-R821	F1.20	APR2-4525-2CVC-R821	
	F1.20	APR2-4526-2CVC-R824	F1.20	APR2-4526-2CVC-R824	
	F1.20	APR2-4527-2CVC-R234	F1.20	APR2-4527-2CVC-R234	
	F1.20	APR2-4603-2SI-R133	F1.20	---	
	F1.20	APR2-4604-2SI-R59	F1.20	---	
	F1.20	APR2-4607-SI-R63	F1.20	---	
	F1.20	APR2-4613-SS-12297	F1.20	---	
	F1.20	---	F1.20	APR2-4614-SS-12405	
	F1.20	---	F1.20	APR2-4614-SS-12406	
	F1.20	APR2-4627-2SI-R333	F1.20	APR2-4627-2SI-R333	
	F1.20	APR2-4627-2SI-R340	F1.20	APR2-4627-2SI-R340	
	F1.20	APR2-4700-CS-2A7	F1.20	---	
	F1.20	APR2-4701-2CS-R327	F1.20	APR2-4701-2CS-R327	
	F1.20	APR2-4706-2CS-R321	F1.20	---	
	F1.20	---	F1.20	APR2-4708-2CS-R285	
	F1.20	APR2-4709-2CS-R333	F1.20	APR2-4709-2CS-R333	
	F1.20	APR2-4709-2CS-R334	F1.20	APR2-4709-2CS-R334	
	F1.20	APR2-4709-2CS-R337	F1.20	APR2-4709-2CS-R337	
F-A (Class 3)	F1.30	E6474-SS-14930	F1.30	---	
	F1.30	EG2-045-2AFW-R44	F1.30	EG2-045-2AFW-R44	
	F1.30	EG2-046-2AFW-R77	F1.30	EG2-046-2AFW-R77	
	F1.30	EG2-046-2AFW-R85	F1.30	EG2-046-2AFW-R85	
	F1.30	EG2-193-2SW-R860	F1.30	EG2-193-2SW-R860	
	F1.30	EG2-193-2SW-R870	F1.30	EG2-193-2SW-R870	
	F1.30	---	F1.30	EG2-193-2SW-R890	
	F1.30	EG2-193-2SW-R910	F1.30	EG2-193-2SW-R910	
	F1.30	EG2-199-2SW-R601	F1.30	EG2-199-2SW-R601	

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TABLE 5 THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1, 2, AND 3 COMPONENT SUPPORTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
	Item	Component	Item	Component	
	F1.30	EG2-207-2SW-R720	F1.30	EG2-207-2SW-R720	
	F1.30	EG2-207-2SW-R725	F1.30	EG2-207-2SW-R725	
	F1.30	EG2-208-2SW-R805	F1.30	EG2-208-2SW-R805	
	F1.30	EG2-208-2SW-R817	F1.30	EG2-208-2SW-R817	
	F1.30	EG2-208-SW-2A4	F1.30	---	
	F1.30	EG2-215-2SW-R98	F1.30	EG2-215-2SW-R98	
	F1.30	EG2-219-2SW-R121	F1.30	EG2-219-2SW-R121	
	F1.30	EG2-220-2SW-H517	F1.30	---	
	F1.30	---	F1.30	EG2-221-SW-2A09	
	F1.30	EG2-243-2CCW-H47	F1.30	---	
	F1.30	EG2-247-2CCW-R203	F1.30	EG2-247-2CCW-R203	
	F1.30	EG2-249-2CCW-R204	F1.30	EG2-249-2CCW-R204	
	F1.30	EG2-252-CCW-2A17	F1.30	EG2-252-CCW-2A17	
	F1.30	EG2-256-2CCW-R230	F1.30	EG2-256-2CCW-R230	
	F1.30	EG2-257-2CCW-H52	F1.30	EG2-257-2CCW-H52	
	F1.30	EG2-258-2SW-H36	F1.30	EG2-258-2SW-H36	
	F1.30	EG2-258-2SW-R520	F1.30	EG2-258-2SW-R520	
	F1.30	EG2-310-2SW-R208Y	F1.30	EG2-310-2SW-R208Y	
	F1.30	---	F1.30	EG2-317-2PA-R36	
	F1.30	EG2-387-2SW-R422	F1.30	EG2-387-2SW-R422	
	F1.30	EG2-448-2CCW-R144	F1.30	EG2-448-2CCW-R144	
	F1.30	EG2-456-2CCW-R221	F1.30	EG2-456-2CCW-R221	
	F1.30	EG2-457-2CCW-BR10	F1.30	EG2-457-2CCW-BR10	
	F1.30	EG2-472-2CCW-R111	F1.30	EG2-472-2CCW-R111	
	F1.30	EG2-475-2CCW-R129	F1.30	---	
	F1.30	EG2-479-2AFW-R153	F1.30	---	
	F1.30	EG2-482-2AFW-R138	F1.30	---	
	F1.30	EG2-487-2AFW-R119	F1.30	---	

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TABLE 5 THIRD INTERVAL (3 RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1, 2, AND 3 COMPONENT SUPPORTS					
Cat	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
Item	Component	Item	Component		
	F1.30	EG2-487-2AFW-R36	F1.30	---	
	F1.30	EG2-497-2SW-R303	F1.30	---	
	F1.30	EG2-498-2SW-R277X	F1.30	---	
	F1.30	---	F1.30	EG2-548-2ASCR-R112	
	F1.30	---	F1.30S	EG2-548-2ASCR-BR13	
F-A (Equipment)	F1.40	APR1-1100-CS-5	F1.40	APR1-1100-CS-5	
	F1.40	APR1-1100-CS-6	F1.40	APR1-1100-CS-6	
	F1.40	APR1-2100-SKIRT	F1.40	APR1-2100-SKIRT	
	F1.40	APR1-3300-CS-1R	F1.40	APR1-3300-CS-1R	
	F1.40	APR1-3300-CS-2R	F1.40	APR1-3300-CS-2R	
	F1.40	APR1-3300-CS-3R	F1.40	APR1-3300-CS-3R	
	F1.40	APR1-3300-CS-4R	F1.40	APR1-3300-CS-4R	
	F1.40	APR2-1100-WS-1	F1.40	APR2-1100-WS-1	
	F1.40	APR2-5120-CS-1	F1.40	APR2-5120-CS-1	
	F1.40	APR2-5120-CS-2	F1.40	APR2-5120-CS-2	
	F1.40	APR2-5120-CS-3	F1.40	APR2-5120-CS-3	
	F1.40	APR2-5120-CS-4	F1.40	APR2-5120-CS-4	
	F1.40	D200039-1-RMW TANK	F1.40	---	
	F1.40	D200089-1-P001A-A	F1.40	D200089-1-P001A-A	
	F1.40	D205051-SF P #1	F1.40	D205051-SF P #1	
	F1.40	D205063-CCW P 2A	F1.40	D205063-CCW P 2A	

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TABLE 6 THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1 AND 2 RISK-INFORMED PIPING EXAMINATIONS					
	Third Interval (Third Period)		Fourth Interval (First Period)		
Cat.	Item	Component	Item	Component	Reconciliation
R-A	R1.11	APR1-4100-14DM-RI	R1.15E	APR1-4100-14DM-RI	Due to Living Program requirements there are additional examinations being performed during the 4 th Interval. With Living Program enhancements the scope continues to be subject to change.
	R1.11	APR1-4100-1DM-RI	R1.15D	APR1-4100-1DM-RI	
	---	---	R1.15A	APR1-4100-25RDM-RI	
	---	---	R1.15A	APR1-4100-26RDM-RI	
	---	---	R1.11H	APR1-4101-5-RI	
	---	---	R1.11H	APR1-4103-33-RI	
	---	---	R1.11H	APR1-4104-32-RI	
	R1.11	APR1-4200-14DM-RI	R1.15E	APR1-4200-14DM-RI	
	R1.11	APR1-4200-1DM-RI	R1.15D	APR1-4200-1DM-RI	
	R1.11	APR1-4300-14DM-RI	R1.15E	APR1-4300-14DM-RI	
	R1.11	APR1-4300-1DM-RI	R1.15D	APR1-4300-1DM-RI	
	R1.11	APR1-4300-23RDM-RI	R1.15A	APR1-4300-23RDM-RI	
	R1.11	APR1-4300-24RDM-RI	R1.15A	APR1-4300-24RDM-RI	
	R1.11	APR1-4301-5-RI	---	---	
	R1.11S	APR1-4303-6-RI	R1.11S	APR1-4303-6-RI	
	R1.11H	APR1-4304-20-RI	---	---	
	R1.11S	APR1-4310-9-RI	R1.11S	APR1-4310-9-RI	
	R1.11C	APR1-4500-1-RI	R1.11C	APR1-4500-1-RI	
	---	---	R1.15TB	APR1-5100-CCW-TB-IN-RI	
	---	---	R1.15TB	APR1-5100-CCW-TB-OUT-RI	
	---	---	R1.15TB	APR1-5200-CCW-TB-IN-RI	
	---	---	R1.15TB	APR1-5200-CCW-TB-OUT-RI	
	---	---	R1.15TB	APR1-5300-CCW-TB-IN-RI	
	---	---	R1.15TB	APR1-5300-CCW-TB-OUT-RI	

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TABLE 6
THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS
CLASS 1 AND 2 RISK-INFORMED PIPING EXAMINATIONS

	Third Interval (Third Period)		Fourth Interval (First Period)		
Cat.	Item	Component	Item	Component	Reconciliation
	R1.11	APR2-4202-1BC-RI	R1.11	APR2-4202-1BC-RI	
	R1.11	APR2-4300-1R-RI	R1.11	APR2-4300-1R-RI	
	R1.11	APR2-4301-1-RI	R1.11	APR2-4301-1-RI	
	R1.11	APR2-4301-2-RI	R1.11	APR2-4301-2-RI	
	R1.11	APR2-4301-23B-RI	R1.11	APR2-4301-23BC-RI	
	R1.11	APR2-4301-24-RI	R1.11	APR2-4301-24-RI	
	R1.11	APR2-4301-25-RI	R1.11	APR2-4301-25-RI	
	R1.11	APR2-4301-26-RI	R1.11	APR2-4301-26-RI	
	R1.11	APR2-4301-27-RI	R1.11	APR2-4301-27-RI	
	R1.11	APR2-4301-28-RI	R1.11	APR2-4301-28-RI	
	R1.11	APR2-4301-29-RI	R1.11	APR2-4301-29-RI	
	R1.11	APR2-4301-3-RI	R1.11	APR2-4301-3-RI	
	R1.11	APR2-4301-30-RI	R1.11	APR2-4301-30-RI	
	R1.11	APR2-4301-31-RI	R1.11	APR2-4301-31-RI	
	R1.11	APR2-4301-32-RI	R1.11	APR2-4301-32-RI	
	R1.11	APR2-4302-1BC-RI	R1.11	APR2-4302-1BC-RI	
	R1.11	APR2-4303-2-RI	R1.11	APR2-4303-2-RI	
	R1.11	APR2-4303-3-RI	R1.11	APR2-4303-3-RI	
	R1.11	APR2-4303-4-RI	R1.11	APR2-4303-4-RI	
	R1.11	APR2-4350-2-RI	R1.11	APR2-4350-2-RI	
	R1.11	APR2-4350-28-RI	R1.11	APR2-4350-28-RI	
	R1.11	APR2-4501-1-RI	R1.11	APR2-4501-1-RI	
	---	---	R1.11H	APR2-4504-1-RI	
	R1.11	APR2-4506-1-RI	R1.11	APR2-4506-1-RI	
	R1.11	APR2-4506A-16-RI	R1.11	APR2-4506A-16-RI	

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TABLE 6 THIRD INTERVAL (3RD PERIOD) EXAMINATIONS COMPARED TO THE FOURTH INTERVAL (1ST PERIOD) EXAMINATIONS CLASS 1 AND 2 RISK-INFORMED PIPING EXAMINATIONS					
Cat.	Third Interval (Third Period)		Fourth Interval (First Period)		Reconciliation
	Item	Component	Item	Component	
	R1.11	APR2-4507-18-RI	R1.11	APR2-4507-18-RI	
	R1.11	APR2-4507-26-RI	R1.11	APR2-4507-26-RI	
	R1.11	APR2-4507-32-RI	R1.11	APR2-4507-32-RI	
	R1.11	APR2-4507-36-RI	R1.11	APR2-4507-36-RI	
	R1.11	APR2-4507-38-RI	R1.11	APR2-4507-38-RI	
	R1.11H	APR2-4508-1-RI	R1.11H	APR2-4508-1-RI	
	R1.11	APR2-4540-19-RI	R1.11	APR2-4540-19	
	R1.11	APR2-4540-22-RI	---	---	
	R1.11	APR2-4540-27-RI	R1.11	APR2-4540-27-RI	