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ANO 1
ANO 2
Waterford 3
Exelon Generation Company LLC
Braidwood 1 & 2
Byron 1 & 2
Three Mile Island 1
FirstEnergy Nuclear Operating Co.
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St. Lucie 1 & 2
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Southern Nuclear Operating Co.
J. M. Farley 1 & 2
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TXU Power
Comanche Peak 1 & 2
Wolf Creek Nuclear Operating Corp.
Wolf Creek

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October 31, 2006

OG-06-356

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

Attention: Chief Information Management Branch,
Division of Program Management

Subject: PWR Owners Group
Plan for Plant Specific Implementation of Extended Inservice Inspection Interval per WCAP-16168-NP, Revision 1, "Risk-Informed Extension of the Reactor Vessel In-Service Inspection Interval." MUHP 5097-99, Task 2059

- References:
1. OG-06-186, Evaluation of NRC Questions on the Technical Bases for Revision of the PTS Rule Relative to Their Effects on the Risk Results in WCAP-16168-NP, Revision 1, "Risk-Informed Extension of the Reactor Vessel In-Service Inspection Interval," 6/8/2006.
 2. WOG-06-25, Transmittal of WCAP-16168-NP Rev. 1, "Risk-Informed Extension of the Reactor Vessel In-Service Inspection Interval" (MUHP-5097/5098/5099, Tasks 2008/2059), 1/26/2006.
 3. NRC letter dated September 19, 2006, "Acceptance for Review of Westinghouse Owners Group (WOG) Topical Report WCAP-16168-NP, Rev. 1, "Risk-Informed Extension of reactor vessel In-Service Inspection Interval (TAC No. MC97968). Rosenberg to Bischoff.

On June 8, 2006 the PWROG agreed to provide the NRC Staff with an integrated PWR implementation plan for the inspections supported by the technical methodology detailed in WCAP-16168-NP by October 31, 2006. The Staff requested this plan to support continuing the review of WCAP-16168-NP. The purpose of this letter is to transmit the plan, which is attached as Table 1.

The proposed ISI dates listed in Table 1 were identified by PWROG members as the projected dates for the plant specific inspections. These dates are contingent upon the NRC Staff approval of both WCAP-16168-NP and the plant specific submittals. Some plants have elected to retain their planned 10-year inservice inspection. In order to address the Staff request, some of the proposed ISI dates may result in an initial extended interval beyond 10 years but less than 20 years. The 20 year interval would then be implemented following this initial interval.

It is the PWROG members understanding that a plant specific submittal would be required for each unit to implement the WCAP methodology and extend their ISI interval as summarized. This plant specific submittal would be consistent with the content outlined in Appendix A of

the WCAP. As indicated in previous discussions with the PWROG, the Staff's review of the individual plant submittals will include a comparison with the proposed ISI date identified for that unit in Table 1. The Staff has indicated that individual plants may deviate by plus or minus one refueling cycle from the date identified in Table 1 with little additional discussion with the Staff. Deviations from the plan by more than one refueling cycle may require additional discussions with the Staff and should be addressed in the plant specific submittals.

The subsequent ISI dates listed in Table 1 are the follow on inspection dates assuming continued implementation of the 20 year inspection interval. Figure 1 shows the distribution of planned inspections over the next 40 years based on plant specific implementation of the proposed 20 year inspection interval. The information shown in Figure 1 includes both the proposed ISI dates and the subsequent ISI dates as listed in Table 1. Figure 2 is included for comparison purposes and shows the current planned inspection schedule based on the current 10 year interval without the implementation of the 20 year inspection interval.

The PWROG believes this staggered implementation plan addresses the concerns expressed by the Staff during the on-going discussion that has occurred during the review of WCAP-16168-NP.

These inspection dates pertain only to those welds for which interval extension may be requested (ASME Weld Categories B-A, B-D, and B-J). Inspections of other welds will continue to be inspected on intervals and dates according to Section XI of the ASME Boiler and Pressure Vessel Code, approved relief requests, or other approved plant specific licensed documents.

If you require further information, please contact Mr. James Molkenhain in the PWR Owners Group Program Management Office at (860) 731-6727.

Sincerely,

J. Molkenhain approving for T. Schiffley
Electronically Approved Records Are Authenticated
in the Electronic Document Management System

Frederick P. "Ted" Schiffley, II, Chairman
PWR Owners Group

FPS:JPM:las

Attachments (3)

cc: C. Brinkman, Westinghouse
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J. Carlson, Westinghouse
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PWROG Steering Committee
PWROG Project Management Office
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S. Peters, USNRC
M. Mitchell, USNRC
PWROG Materials Subcommittee

Table 1: Reactor Vessel Inservice Inspection Plan				
Utility	Plant Name	Current ISI Date	Proposed ISI Date	Subsequent ISI Date
AEP	D. C. Cook Unit 1	2009	2019	2039
	D. C. Cook Unit 2	2009	2009	2029
AmerenUE	Callaway	2014	2023	2043
APS	Palo Verde Unit 1	2008	2016	2036
	Palo Verde Unit 2	2008	2008	2028
	Palo Verde Unit 3	2009	2013	2033
Constellation	Calvert Cliffs Unit 1	2008	2018	2038
	Calvert Cliffs Unit 2	2009	2019	2039
	R. E. Ginna	2009	2011	2031
Dominion	Kewaunee	2014	2014	2034
	Millstone Unit 2	2008	2009	2029
	Millstone Unit 3	2007	2007	2027
	North Anna Unit 1	2009	2009 ¹	2019 ¹
	North Anna Unit 2	2010	2010 ¹	2020 ¹
	Surry Unit 1	2013	2013 ¹	2023 ¹
	Surry Unit 2	2015	2015 ¹	2025 ¹
Duke	Catawba Unit 1	2014	2024	2044
	Catawba Unit 2	2013	2023	2043
	McGuire Unit 1	2011	2011	2031
	McGuire Unit 2	2014	2024	2044
	Oconee Unit 1	2012	2012	2032
	Oconee Unit 2	2013	2013	2033
	Oconee Unit 3	2014	2024	2044
Entergy	Indian Point Unit 2	2006	2012	2032
	Indian Point Unit 3	2009	2015	2035
	ANO Unit 1	2007	2008	2028
	ANO Unit 2	2009	2017	2037
	Waterford Unit 3	2008	2015	2035
Exelon	Braidwood Unit 1	2007	2007	2027
	Braidwood Unit 2	2008	2018	2038
	Byron Unit 1	2015	2025	2045
	Byron Unit 2	2007	2007	2027
	Three Mile Island Unit 1	2011	2021	2041
FENOC	Beaver Valley Unit 1	2007	2007	2027
	Beaver Valley Unit 2	2006	2010	2030
	Davis Besse	N/A	2014	2034
FPL	St. Lucie Unit 1	2007	2008	2028
	St. Lucie Unit 2	2010	2012	2032
	Turkey Point Unit 3	2014	2022	2042
	Turkey Point Unit 4	2015	2017	2037
	Seabrook Unit 1	2009	2019	2039

Table 1: Reactor Vessel Inservice Inspection Plan				
Utility	Plant Name	Current ISI Date	Proposed ISI Date	Subsequent ISI Date
NMC	Point Beach Unit 1	2008	2008	2028
	Point Beach Unit 2	2008	2008	2028
	Prairie Island Unit 1	2014	2014	2034
	Prairie Island Unit 2	2013	2013	2033
	Palisades	2006	2015	2035
OPPD	Fort Calhoun	2013	2023	2043
PGE	Diablo Canyon Unit 1	2015	2025	2045
	Diablo Canyon Unit 2	2006	2026	2046
Progress	Crystal River Unit 3	2007	2007	2027
	H. B Robinson Unit 2	2011	2020	2040
	Shearon Harris Unit 1	2006	2024	2044
PSEG	Salem Unit 1	2010	2020	2040
	Salem Unit 2	2012	2012	2032
SCE	San Onofre 2	2012	2022	2042
	San Onofre 3	2013	2023	2043
SCE&G	V. C. Summer	2013	2023	2043
Southern	Farley Unit 1	2007	2007	2027
	Farley Unit 2	2010	2010	2020
	Vogtle Unit 1	2006	2016	2036
	Vogtle Unit 2	2007	2007	2026
STPNOC	South Texas Unit 1	2009	2019	2039
	South Texas Unit 2	2010	2020	2040
TVA	Sequoyah Unit 1	2006	2015	2035
	Sequoyah Unit 2	2015	2024	2044
	Watts Bar Unit 1	2015	2020	2040
TXU	Comanche Peak Unit 1	2008	2018	2038
	Comanche Peak Unit 2	2012	2012	2032
WCNOC	Wolf Creek	2015	2025	2045

Note 1: These dates reflect continuation of the ASME Section XI 10 year inservice inspection interval. Westinghouse is currently in discussion with these utilities to determine their plan to participate along with their proposed and subsequent ISI dates based on the 20 year interval. The Staff will be advised of additional information.

