

Duke Energy Company      Oconee 1, 2, 3  
Entergy Operations, Inc.      ANO-1  
Florida Power Corporation      Crystal River 3



AmerGen Energy Company, LLC  
FirstEnergy Nuclear Operating Company  
Framatome ANP

TMI-1  
D-B

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Working Together to Economically Provide Reliable and Safe Electrical Power

January 5, 2005  
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Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

**Supporting Materials for Review of BAW-1543(NP), Revision 4, Supplement 5, "Supplement to the Master Integrated Reactor Vessel Surveillance Program"**

- Ref.: 1. Letter, James F. Mallay (Framatome ANP), to Document Control Desk (NRC), "Request for Review and Approval of BAW-1543(NP), Revision 4, Supplement 5, 'Supplement to the Master Integrated Reactor Vessel Surveillance Program'," OG:03:1838, NRC:03:091, December 19, 2003.
- Ref.: 2. Letter, James F. Mallay (Framatome ANP) to Document Control Desk (NRC), "Response to RAI on BAW-1543(NP), Revision 4, Supplement 5, 'Supplement to the Master Integrated Reactor Vessel Surveillance Program'," OG:04:1847, NRC:04:030, July 7, 2004.
- Ref.: 3. Letter, James F. Mallay (Framatome ANP) to Document Control Desk (NRC), "Supporting Materials for Review of BAW-1543(NP), Revision 4, Supplement 5, 'Supplement to the Master Integrated Reactor Vessel Surveillance Program'," OG:04:1855, NRC:04:068, November 30, 2004.

On behalf of the B&W Owners Group Reactor Vessel Working Group, Framatome ANP (FANP) requested the NRC's review and approval for referencing in licensing actions the topical report BAW-1543(NP), Revision 4, Supplement 5, "Supplement to the Master Integrated Reactor Vessel Surveillance Program," (Reference 1). Our response to a Request for Additional Information was provided in Reference 2. A supplemental request for clarification of the contents of Table VIII of the report was discussed in a telephone call on November 23, 2004 (Reference 3). A second request for further clarification of the contents of Table VIII was discussed in a telephone call on December 1, 2004, between Mr. Brian Hall of FANP and Ms. Meena Khanna of the NRC.

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DDYS

Attachment I provides a revised Table VIII that clarifies how Oconee Unit 2, Oconee Unit 3 and TMI are meeting the minimum number of capsules to be withdrawn and tested in accordance with ASTM E185-82. This table completely replaces the table submitted in Reference 3.

We would appreciate your timely review.

Very truly yours,



Jerald S. Holm, Director  
Regulatory Affairs

Enclosure

cc: D. G. Holland  
B&WOG Reactor Vessel Working Group  
Project 693

**Attachment 1**

**Comparison of the Plant-Specific Surveillance Capsules with ASTM E 185 Requirements**

Table VIII. Comparison of the Plant-Specific Surveillance Capsules with ASTM E 185 Requirements

Plant	ASTM E 185-82 5 Capsule Program Requirement				
	1.5 EFPY or Fluence > 5E18 $\Delta RT_{NDT} \approx 50^\circ F$	3 EFPY or Fluence Midway Between First and Third Capsule	6 EFPY or T/4 EOL Fluence	15 EFPY or IS EOL Fluence	EOL or 1-2 Times EOL Fluence (Capsule may be held w/o testing)
Oconee-1	F-I/T	(a)	E-I/T	A-I/T	C-I/T
Oconee-2	C-I/T	A-I/T	TMI2-LG1/T	E-I/T	A5/T
Oconee-3	A-I/T	B-I/T	L1/T	D-I/T	CR3-LG2/T
TMI-1	E-I/T	W1/T	CR3-LG1/T	C-I/T	TMI2-LG2/T
Crystal River-3	B-I/T	(a)	C-I/T	D-I/T	F-I/T
ANO-1	E-I/T	(a)	B-I/T	A-I/T	C-I/T
Davis-Besse	F-I/T	(a)	B-I/T	D-I/T	A-I/T
Point Beach-1	V-I/T	S-I/T	T-I/T	R-I/T	P-I/NT
Point Beach-2	V-I/T	T-I/T	R-I/T	S-I/T	P-I/NT
Surry-1	T-I/T	W-I/T <sup>(b)</sup>	V-I/T	X-I/T	S,U-R
Surry-2	X-I/T	W-I/T <sup>(b)</sup>	V-I/T	Y-I/T	S-I/T <sup>(b)</sup> ;T-R
Turkey Point-3	T-I/T	V-I/T	S-I/T	X-I/T	U,W-R
Turkey Point-4	T-I/T	S-I/T	X-R	V-R	U,W-R

Legend: I/T = Irradiated and tested

I/NT = Irradiated and not tested

R = In reactor

(a) Only 4 capsules required per ASTM E185-82.

(b) Only dosimetry evaluated.