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PWROG-17031-NP, Revision 1  
Project Number 99902037

May 31, 2018

OG-18-118

U.S. Nuclear Regulatory Commission  
Document Control Desk  
11555 Rockville Pike  
Rockville, MD 20852

Subject: PWR Owners Group  
**Transmittal of PWROG-17031-NP, Revision 1, "Update for Subsequent License Renewal: WCAP-15338-A, "A Review of Cracking Associated with Weld Deposited Cladding in Operating PWR Plants," PA-MS-C-1497**

The purpose of this letter is to transmit Pressurized Water Reactor Owners Group (PWROG) Topical Report (TR), PWROG-17031-NP, Revision 1, "Update for Subsequent License Renewal: WCAP-15338-A, "A Review of Cracking Associated with Weld Deposited Cladding in Operating PWR Plants" in accordance with the Nuclear Regulatory Commission (NRC) TR program for review and acceptance for referencing in regulatory actions (Enclosure 1).

### **Topical Report Summary**

In WCAP-15338-A, Westinghouse provided the technical basis demonstrating that there is no structural integrity concern for the underclad cracking of the Westinghouse reactor vessels. The NRC issued a Safety Evaluation Report (SER) in September 25, 2002, accepting the technical arguments in WCAP-15338 and allow any Westinghouse plants to reference the report in a license renewal application to satisfy the requirements of 10 CFR 54.21(c)(1) for demonstrating the appropriate findings regarding the evaluation of time-limited aging analysis (TLAA) for the reactor pressure vessel (RPV) components for the period of extended operation (60 years).

The purpose of this TR is to update the fatigue crack growth analysis in WCAP-15338-A through 80 years of operation, and confirm that the evaluation remains applicable for subsequent license renewal (SLR) periods of operation through this time period.

### **Limits of Applicability**

WCAP-15338-A is applicable to all Westinghouse Nuclear Steam Supply System (NSSS) plants. This same applicability is carried over for the TR presented herein. This TR is applicable to all Westinghouse NSSS plants for 80 years of operation.

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**Intended Application**

Licensees will reference PWROG-17031-NP, Revision 1 in subsequent license renewal applications to satisfy the requirements of 10 CFR 54.21(c)(1) for demonstrating the appropriate findings regarding the evaluation of time-limited aging analysis (TLAA) for the reactor pressure vessel (RPV) components through the subsequent license renewal period of operation (80 years).

**Industry Implementation**

PWROG-17031-NP, Revision 1 can be implemented by all applicable U. S. PWRs as listed in the Limits of Applicability section above.

**Specialized Resource Availability**

This TR is being submitted to the NRC for review and approval so that the NRC approved version can be utilized by licensees. Licensees will reference PWROG-17031-NP, Revision 1 in a license renewal application to satisfy the requirements of 10 CFR 54.21(c)(1) for demonstrating the appropriate findings regarding the evaluation of time-limited aging analysis (TLAA) for the reactor pressure vessel (RPV) components through the subsequent license renewal period of operation (80 years). NRC approval of the generic TR will reduce the impact on both licensee and NRC resources by eliminating the need for the preparation of and NRC review of plant specific justifications for the structural integrity of the Westinghouse RPVs due to underclad cracking.

**NRC Review Schedule**

The PWROG requests that the NRC complete their review of the TR by June, 2019.

This letter transmits one copy of PWROG-17031-NP, Revision 1 (Enclosure 1).

Correspondence related to this transmittal should be addressed to:

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If you have any questions, please do not hesitate to contact me at (805) 545-4328 or Mr. W. Anthony Nowinowski, Program Manager of the PWR Owners Group, Program Management Office at (412) 374-6855.

Sincerely yours,



Ken Schrader, Chief Operating Officer and Chairman  
PWR Owners Group  
KS:WAN:am

Enclosure 1: One copy of PWROG-17031-NP, Revision 1

cc: PWROG Management Committee  
PWROG Materials Committee  
PWROG Steering Committee  
PWROG Licensing Committee  
PWROG PMO  
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