

August 8, 2016

Mr. Morris Byram  
Manager, Product Licensing  
AREVA, Incorporated  
3315 Old Forest Road  
Lynchburg, Virginia, 224501

SUBJECT: NUCLEAR REGULATORY COMMISSION STAFF ASSESSMENT OF  
ANP-10326

Dear Mr. Morris:

By letter dated November 30, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML121340A392), AREVA requested review and approval of Topical Report (TR) ANP-10326P, Revision 1, entitled "Environmentally Assisted Fatigue: Modified Effective Correction Factor for Austenitic Stainless Steels." The staff notified AREVA that supplemental information would be required in order to review the TR and requested that information in a letter dated August 29, 2013 (ADAMS Accession No. ML13128A932). AREVA responded with the requested supplemental information by letters dated October 14, 2013 (ADAMS Accession No. ML13289A239), and October 31, 2013 (ADAMS Accession No. ML13128A932). Based on the receipt of this requested supplemental information, the technical staff determined that sufficient information had been provided to perform the requested review. The staff informed AREVA that the TR had been accepted for review by letter dated March 26, 2014 (ADAMS Accession No. ML14071A602).

The staff provided a request for additional information (RAI) on April 29, 2015 (ADAMS Accession No. ML15107A206), to which AREVA provided a response by letter dated June 5, 2015 (ADAMS Accession No. ML15160A020). The staff submitted additional RAIs in letters dated August 20, 2015 (ADAMS Accession No. ML15232A368), and October 16, 2015 (ADAMS Accession No. ML15287A094). AREVA provided responses by letter dated January 29, 2016 (ADAMS Accession No. ML16034A059).

The U.S. Nuclear Regulatory Commission (NRC) staff has performed a detailed review of this TR. However, the NRC staff remains concerned that the findings and the methodology proposed are not sufficiently conservative, and that the RAI responses are insufficient to address the primary focus of the RAIs. The staff's assessment is attached.

M. Byram

- 2 -

If you have any questions or comments concerning this matter, please contact Mark Lintz at 301-415-4051.

Sincerely,

***/RA Michael Dudek Acting for/***

Joseph Colaccino, Chief  
New Reactor Rulemaking and Guidance Branch  
Division of Engineering Infrastructure and  
Advanced Reactors  
Office of New Reactors

Project No. 728

Enclosure:  
NRC Staff Assessment of ANP-10326

M. Byram

- 2 -

If you have any questions or comments concerning this matter, please contact Mark Lintz at 301-415-4051.

Sincerely,

***/RA Michael Dudek Acting for/***

Joseph Colaccino, Chief  
New Reactor Rulemaking and Guidance Branch  
Division of Engineering Infrastructure and  
Advanced Reactors  
Office of New Reactors

Project No. 728

Enclosure:  
NRC Staff Assessment of ANP-10326

**DISTRIBUTION:**

Public  
MLintz  
JColaccino  
BAbeywickrama  
LYong  
RidsNroDeia  
RidsOgcMailCenter  
RidsNroDeiaNrgb  
RidsNrrDeEmbc

**ADAMS Accession No. ML16179A118**

**\*via Email**

**NRO-002**

OFFICE	PM: NRO/DEIA/NRGB	LA:NRO/DEIA/NRGB	BC:NRR/DE/EMCB
NAME	MLintz	BAbeywickrama*	YLi
DATE	07/01/16	07/11/16	07/06/16
OFFICE	NRR/DE/EMCB	OGC	BC:NRO/DEIA/NRGB
NAME	KHsu	AWilson*	JColaccino (MDudek for)
DATE	07/06/16	07/21/16	08/08/16

**OFFICIAL RECORD COPY**