

NRR-PMDAPem Resource

From: Barillas, Martha
Sent: Thursday, June 22, 2017 11:33 AM
To: Tanya.Hamilton@duke-energy.com; Robertson, Jeffrey N; Caves, John
Cc: Barillas, Martha; Shoop, Undine; Lukes, Robert; Hsueh, Kevin
Subject: Acceptance of Shearon Harris Nuclear Power Plant Unit 1 license amendment request related to a new set of fission gas gap release fractions for high burnup fuel rods that exceed the linear heat generation rate limit detailed in Regulatory Guide 1.183

SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1-ACCEPTANCE OF LICENSE AMENDMENT REQUEST RELATED TO A NEW SET OF FISSION GAS GAP RELEASE FRACTIONS FOR HIGH BURNUP FUEL RODS THAT EXCEED THE LINEAR HEAT GENERATION RATE LIMIT DETAILED IN REGULATORY GUIDE 1.183

Dear Ms. Hamilton:

By letter dated May 22, 2017, Agencywide Documents Access and Management System (ADAMS Accession No. ML17142A411), Duke Energy Progress, LLC (Duke Energy) submitted a license amendment request for Shearon Harris Nuclear Power Plant, Unit 1 (HNP). The application requests to revise the facility as described in the Final safety Analysis Report to provide gap release fractions for high-burnup fuel rods that exceed the 6.3 kW/ft linear heat generation rate limit detailed in Table 3 of Regulatory Guide 1.183, "Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors." The purpose of this e-mail is to provide the results of the U.S. Nuclear Regulatory Commission (NRC) staff's acceptance review of this application. The acceptance review was performed to determine if there is sufficient technical information in scope and depth to allow the NRC staff to complete its detailed technical review. The acceptance review is also intended to identify whether the application has any readily apparent information insufficiencies in its characterization of the regulatory requirements or the licensing basis of the plant.

The NRC staff has reviewed your application and concluded that it does provide technical information in sufficient detail to enable the NRC staff to complete its detailed technical review and make an independent assessment regarding the acceptability of the proposed amendment in terms of regulatory requirements and the protection of public health and safety and the environment. Given the lesser scope and depth of the acceptance review as compared to the detailed technical review, there may be instances in which issues that impact the NRC staff's ability to complete the detailed technical review are identified despite completion of an adequate acceptance review. If additional information is needed, you will be advised by separate correspondence.

Based on the information provided in your submittal, the NRC staff has estimated that the licensing request will take approximately 390 hours to complete. The NRC staff expects to complete this review in approximately 12 months, which is May 2018. If there are emergent complexities or challenges in our review that would cause changes to the initial forecasted completion date or significant changes in the forecasted hours, the reasons for the changes, along with the new estimates, will be communicated during the routine interactions with the assigned project manager.

These estimates are based on the NRC staff's initial review of the application and they could change, due to several factors including requests for additional information, unanticipated addition of scope to the review, and review by NRC advisory committees or hearing-related activities. Additional delay may occur if the submittal is provided to the NRC in advance or in parallel with industry program initiatives or pilot applications.

If you have any questions, please contact me at Martha.Barillas@nrc.gov or (301) 415-2760.

Respectfully,

Martha Barillas
Project Manager
Shearon Harris Nuclear Power Plant, Unit 1
NRR/DORL/Licensing Branch II-2
US Nuclear Regulatory Commission
301-415-2760

Hearing Identifier: NRR_PMDA
Email Number: 3575

Mail Envelope Properties (c00d222e8aa4475c83b460ee69633174)

Subject: Acceptance of Shearon Harris Nuclear Power Plant Unit 1 license amendment request related to a new set of fission gas gap release fractions for high burnup fuel rods that exceed the linear heat generation rate limit detailed in Regulatory Guide 1.183

Sent Date: 6/22/2017 11:33:16 AM

Received Date: 6/22/2017 11:33:22 AM

From: Barillas, Martha

Created By: Martha.Barillas@nrc.gov

Recipients:

"Barillas, Martha" <Martha.Barillas@nrc.gov>

Tracking Status: None

"Shoop, Undine" <Undine.Shoop@nrc.gov>

Tracking Status: None

"Lukes, Robert" <Robert.Lukes@nrc.gov>

Tracking Status: None

"Hsueh, Kevin" <Kevin.Hsueh@nrc.gov>

Tracking Status: None

"Tanya.Hamilton@duke-energy.com" <Tanya.Hamilton@duke-energy.com>

Tracking Status: None

"Robertson, Jeffrey N" <Jeffrey.Robertson@duke-energy.com>

Tracking Status: None

"Caves, John" <John.Caves@duke-energy.com>

Tracking Status: None

Post Office: HQPWMSMRS03.nrc.gov

Files	Size	Date & Time
MESSAGE	3597	6/22/2017 11:33:22 AM

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received: