



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
WASHINGTON, D.C. 20555-0001

May 21, 2019

LICENSEE: Susquehanna Nuclear, LLC

FACILITY: Susquehanna Steam Electric Station, Units 1 and 2

SUBJECT: SUMMARY OF MAY 7, 2018, PRE-SUBMITTAL MEETING WITH
SUSQUEHANNA NUCLEAR, LLC TO DISCUSS A POTENTIAL LICENSE
AMENDMENT REQUEST RE: USE OF ATRIUM 11 FUEL
(EPID L-2019-LRM-0022)

On May 7, 2019, a pre-submittal meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Susquehanna Nuclear, LLC (Susquehanna or the licensee) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss a proposed license amendment request to allow the use of Atrium 11 fuel for the Susquehanna Steam Electric Station, Units 1 and 2.

The licensee's presentation material can be found in the Agencywide Documents Access and Management System at Accession No. ML19099A016.

During the meeting, the licensee presented information regarding the schedule to submit, review, and approve the license amendment request. Specifically, Susquehanna plans to submit a license amendment request to revise the list of approved methodologies in Technical Specification 5.6.5, "Reporting Requirements – Core Operating Limits Report (COLR)," to reference Advanced Framatome Methodologies in order to support loading of Framatome Atrium 11 fuel in 2021 and 2022, respectively. Staff focused discussion on the transition to advanced Framatome methodologies, including adopting Technical Specifications Task Force (TSTF) Traveler TSTF-535, "Revise Shutdown Margin Definition to Address Advanced Fuel Designs," and removal of two analysis penalties that are no longer applicable.

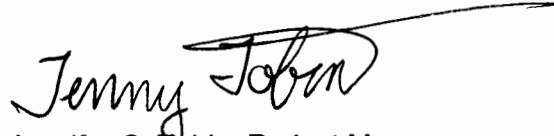
Questions from the U.S. Nuclear Regulatory Commission (NRC) staff concentrated on:

- Differences between the Atrium 10 fuel currently in use at Susquehanna and the Atrium 11 fuel the licensee plans to use going forward. The questions specifically concentrated on debris protection features and thermal hydraulic properties of the new fuel compared to the existing fuel.
- How Susquehanna and Framatome intend to model the cores. The analyses prepared for the amendment will use an equilibrium cycle of only Atrium 11 fuel. The reload specific analyses, which will be submitted to the NRC for information during the application process as they become available, will document the behavior of the mixed cores (i.e., fresh Atrium 11 and once- or twice-burned Atrium 10).
- Changes to the fuel property models used in the stability method currently employed by Susquehanna and their comparison to the fuel property models used in the application for advanced Framatome methodologies the NRC currently has under review (Brunswick Steam Electric Plant).
- Impacts on accident analyses, specifically, dose consequences thereof.

A list of attendees is enclosed. No regulatory decisions were made during the meeting.

Please direct any inquiries to me at (301) 415-2328 or Jennifer.Tobin@nrc.gov.

Sincerely,

A handwritten signature in black ink that reads "Jennifer C. Tobin". The signature is written in a cursive style with a long, sweeping horizontal line extending from the end of the name.

Jennifer C. Tobin, Project Manager
Plant Licensing Branch I
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosure:
List of Attendees

cc: Listserv

LIST OF ATTENDEES

MAY 15, 2018, CLOSED PRE-SUBMITTAL MEETING WITH SUSQUEHANNA NUCLEAR, LLC

TO DISCUSS A POTENTIAL LICENSE AMENDMENT REQUEST

RE: USE OF ATRIUM 11 FUEL

SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2

Name	Organization
Reed Anzalone	U.S. Nuclear Regulatory Commission (NRC)
Robert Beaton	NRC
Jenny Tobin	NRC
Mohammad Razzaque	NRC
Joshua Wilson	NRC
John Parillo	NRC
Ashley Smith*	NRC
Kevin Heller	NRC
Melisa Krick	Susquehanna Nuclear, LLC (Susquehanna)
Jason Hartzell	Susquehanna
William Kahler	Susquehanna
Chris Hoffman	Susquehanna
Shane Jurek*	Susquehanna
Ron Vasquies*	Susquehanna
Michael Anderson*	Framatome Inc. (Framatome)
Roland DeSteese	Framatome
Ralph Grummer*	Consultant to Framatome
Dirk Howlett	Framatome
Corey Long	Framatome
Dang Patachana*	Framatome
Kevin Quick	Framatome
Dan Tinkler	Framatome

* by telephone

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JQuichocho, OEDO
MMCcCoppin, OEDO
RAnzalone, NRR
RBeaton, NRR
KHeller, NRR
JParillo, NRR
MRazzaque, NRR
JWilson, NRR
ASmith, NRR

ADAMS Accession No.: ML19134A029

*by e-mail

OFFICE	DORL/LPL1/PM	DORL/LPL1/LA	DORL/LPL1/BC	DORL/LPL1/PM
NAME	JTobin	LRonewicz	JDanna	JTobin
DATE	05/15/2019	05/15/2019	05/21/2019	05/21/2019

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