



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

August 25, 2016

Mr. Jon A. Franke
Site Vice President
Susquehanna Nuclear, LLC
769 Salem Boulevard
NUCSB3
Berwick, PA 18603-0467

SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 –
SUPPLEMENTAL INFORMATION NEEDED FOR ACCEPTANCE OF
REQUESTED LICENSING ACTION RE: REQUEST TO ADDRESS
SECONDARY CONTAINMENT ACCESS OPENINGS
(CAC NOS. MF8214 AND MF8215)

Dear Mr. Franke:

By letter dated July 27, 2016 (Agencywide Documents Access and Management System Accession No. ML16210A001), Susquehanna Nuclear, LLC (the licensee) submitted a license amendment request for the Susquehanna Steam Electric Station (SSES), Units 1 and 2. The proposed amendment would provide an allowance for brief, inadvertent, simultaneous opening of redundant secondary containment access doors during normal entry and exit conditions. The purpose of this letter is to provide the results of the U.S. Nuclear Regulatory Commission (NRC) staff's acceptance review of this license amendment request. 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.

Consistent with Section 50.90 of Title 10 of the *Code of Federal Regulations* (10 CFR), an amendment to the license (including the technical specifications), must fully describe the changes requested, and following as far as applicable, the form prescribed for original applications. Section 50.34 of 10 CFR addresses the content of technical information required. This section stipulates that the submittal address the design and operating characteristics, unusual or novel design features, and principal safety considerations.

The NRC staff has reviewed your application and concluded that the information delineated in the enclosure to this letter is necessary to enable the NRC staff to make an independent assessment regarding the acceptability of the proposed amendment request in terms of regulatory requirements and the protection of public health and safety and the environment.

J. Franke

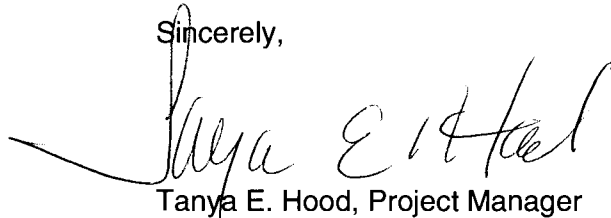
- 2 -

In order to make the application complete, the NRC staff requests that the licensee supplement the application to address the information requested in the enclosure within 13 business days from the date of this letter. This will enable the NRC staff to complete its detailed technical review. If the information responsive to the NRC staff's request is not received by the above date, the application will not be accepted for review pursuant to 10 CFR 2.101, and the NRC staff will cease its review activities associated with the application. If the application is subsequently accepted for review, you will be advised of any further information needed to support the NRC staff's detailed technical review by separate correspondence.

The information requested and associated timeframe in this letter were discussed with Ms. Brittany Sprung and Mr. Jason Jennings of your staff on August 24, 2016.

If you have any questions, please contact me at 301-415-1387 or by e-mail at Tanya.Hood@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Tanya E. Hood". The signature is written in a cursive style with a long, sweeping underline that extends to the left.

Tanya E. Hood, Project Manager
Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosure:
Supplemental Information Needed

cc w/enclosure: Distribution via Listserv

SUPPLEMENTAL INFORMATION NEEDED
LICENSE AMENDMENT REQUEST FOR
SECONDARY CONTAINMENT ACCESS OPENINGS
SUSQUEHANNA NUCLEAR, LLC
ALLEGHENY ELECTRIC COOPERATIVE, INC.
SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2
DOCKET NO. 50-387 AND 50-388

By letter dated July 27, 2016¹ Susquehanna Nuclear, LLC (the licensee) submitted a license amendment request for the Susquehanna Steam Electric Station (SSES), Units 1 and 2. The proposed amendment would provide an allowance for brief, inadvertent, simultaneous opening of redundant secondary containment access doors during normal entry and exit conditions. The purpose of this letter is to provide the results of the U.S. Nuclear Regulatory Commission (NRC) staff's acceptance review of this amendment. 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.

Section 50.67 of Title 10 of the *Code of Federal Regulations* (10 CFR) allows a holder of an operating license issued prior to January 10, 1997, or a holder of a renewed license under 10 CFR Part 54, whose initial operating license was issued prior to January 10, 1997, to voluntarily revise the accident source term used in design-basis radiological consequence analyses. The applicant's evaluation of the consequences of the applicable design-basis accidents previously analyzed in its safety analysis report must demonstrate reasonable assurance that the regulatory limits provided in Section 50.67 of 10 CFR are met. Appendix A to 10 CFR, General Design Criteria 19, "Control room," which requires, in part, that adequate radiation protection be provided to permit access and occupancy of the control room under accident conditions, without personnel receiving radiation exposures in excess of 5 roentgen equivalent man (rem) whole body, or its equivalent to any part of the body, for the duration of the accident.

The licensee's radiological consequence evaluation of the fuel handling accident (analysis of record) does not provide sufficient information of the change requested to allow the NRC staff to complete its detailed technical review.

¹ Agencywide Documents Access and Management System Accession No. ML16210A001

In order for the NRC staff to complete its detailed technical review, one of the following is needed:

1. Account for a ground level release in your fuel handling accident analysis, and any other impacted analysis, and provide atmospheric dispersion factors (x/Q's) for the analysis, or
2. Provide a bounding analysis that addresses the ground level release including x/Q's even for the short time proposed in the amendment request, or
3. Provide an analysis that shows that the standby gas treatment system has enough capacity to maintain the secondary containment at a negative pressure with both doors open and that no radioactivity will release through the open doors at ground level (to be bounded by the current analysis of record).

During the clarification call, the NRC staff indicated that the response would need to address:

1. The analysis compared to RG 1.183.
2. The release point(s).
3. The safety evaluation where the NRC approved the x/Q's for the release point(s) (provide ADAMS accession number if known).
4. Why the previously approved x/Q's are valid for this application.

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The information requested and associated timeframe in this letter were discussed with Ms. Brittany Sprung and Mr. Jason Jennings of your staff on August 24, 2016.

If you have any questions, please contact me at 301-415-1387 or by e-mail at Tanya.Hood@nrc.gov.

Sincerely,

/RA/

Tanya E. Hood, Project Manager
 Plant Licensing Branch I-2
 Division of Operating Reactor Licensing
 Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosure:
 Supplemental Information Needed

cc w/enclosure: Distribution via Listserv

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KBucholtz, NRR	MChernoff, NRR	NKaripineni, NRR

ADAMS Accession No.: ML16237A144

*by e-mail

OFFICE	NRR/DORL/LPL1-2/PM	NRR/DORL/LPL1-2/LA	NRR/DRA/ARCB/BC	NRR/DSS/SBPB/BC
NAME	THood	LRonevicz	UShoop	RDenning
DATE	8/24/16	8/24/16	8/25/16	8/25/16
OFFICE	NRR/DSS/STSB/BC	NRR/DORL/LPL1-2/BC	NRR/DORL/LPL1-2/PM	
NAME	AKlein (MHamm for)	DBroadus	THood	
DATE	8/24/16	8/25/16	8/25/16	