



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

December 29, 2016

Mr. Kelvin Henderson  
Site Vice President  
Catawba Nuclear Station  
Duke Energy Carolinas, LLC  
4800 Concord Road  
York, NC 29745

SUBJECT: CATAWBA NUCLEAR STATION, UNITS 1 AND 2 – REQUEST FOR  
ADDITIONAL INFORMATION REGARDING LICENSE AMENDMENT  
REQUEST TO IMPLEMENT A RISK-INFORMED, PERFORMANCE-BASED  
FIRE PROTECTION PROGRAM (CAC NOS. MF2936 AND MF2937)

Dear Mr. Henderson:

By letter dated September 25, 2013 (Agencywide Documents Access and Management System Accession No. ML13276A503), Duke Energy Carolinas, LLC submitted a license amendment request to change its fire protection program to one based on the National Fire Protection Association (NFPA) Standard 805, "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants," 2001 Edition.

The U.S. Nuclear Regulatory Commission staff is continuing its review and has determined that additional information is needed as discussed in the enclosed Request for Additional Information.

Sincerely,

A handwritten signature in black ink that reads "Bob Martin".

Bob Martin, Senior Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Enclosure:  
Request for Additional Information

cc w/enclosure: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

ADOPTION OF NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 805

DUKE ENERGY CAROLINAS, LLC

CATAWBA NUCLEAR STATION, UNITS 1 AND 2

DOCKET NOS. 50-413 AND 50-414

By letter dated September 25, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13276A503), Duke Energy Carolinas, LLC (the licensee) submitted a license amendment request to change its fire protection program to one based on the National Fire Protection Association (NFPA) 805, "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants," 2001 Edition.

A question has recently been identified regarding whether fire-induced flooding had been analyzed for scenarios involving high density polyethylene (HDPE) piping.

Please provide a description of how potential flooding has been addressed in the analysis. The description should describe how safe shutdown is assured through either demonstrating that the HDPE installations are bounded by existing analysis, or by performing a risk-informed, performance-based evaluation that considers the possibility of flooding. All areas containing HDPE piping should be included in the response.

Enclosure

December 29, 2016

Mr. Kelvin Henderson  
Site Vice President  
Catawba Nuclear Station  
Duke Energy Carolinas, LLC  
4800 Concord Road  
York, NC 29745

**SUBJECT: CATAWBA NUCLEAR STATION, UNITS 1 AND 2 – REQUEST FOR  
ADDITIONAL INFORMATION REGARDING LICENSE AMENDMENT  
REQUEST TO IMPLEMENT A RISK-INFORMED, PERFORMANCE-BASED  
FIRE PROTECTION PROGRAM (CAC NOS. MF2936 AND MF2937)**

Dear Mr. Henderson:

By letter dated September 25, 2013 (Agencywide Documents Access and Management System Accession No. ML13276A503), Duke Energy Carolinas, LLC submitted a license amendment request to change its fire protection program to one based on the National Fire Protection Association (NFPA) Standard 805, "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants," 2001 Edition.

The U.S. Nuclear Regulatory Commission staff is continuing its review and has determined that additional information is needed as discussed in the enclosed Request for Additional Information.

Sincerely,

*/RA/*

Bob Martin, Senior Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Enclosure:  
Request for Additional Information

cc w/enclosure: Distribution via Listserv

**DISTRIBUTION:**

PUBLIC LPL2-1 R/F  
RidsNrrDraApla  
RidsNrrDorIDpr

RidsACRS\_MailCTR  
RidsNrrPMCatawba  
RidsNrrLAKGoldstein

RidsNrrDorLpI2-1  
RidsRgn2MailCenter

**ADAMS Accession No.: ML16355A392**

OFFICE	DORL/LPL2-1/PM	DORL/LPL2-1/LA	DRA/APLA/BC	DORL/LPL2-1/BC	DORL/LPL2-1/PM
NAME	BMartin	KGoldstein	GCasto	MMarkley	BMartin
DATE	12/23/16	12/29/16	12/20/16	12/23/16	12/29/16

**OFFICIAL RECORD COPY**