

June 25, 2014

Mr. John W. Stetkar, Chairman
Advisory Committee on Reactor Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: CREDIT FOR CONTAINMENT ACCIDENT PRESSURE TO ENSURE
OPERATION OF U.S. ADVANCED PRESSURIZED WATER REACTOR
EMERGENCY CORE COOLING SYSTEM PUMPS

Dear Mr. Stetkar:

I am responding to your letter dated April 21, 2014.¹ The U.S. Nuclear Regulatory Commission (NRC) staff understands the position of the Advisory Committee on Reactor Safeguards (ACRS) regarding the use of containment accident pressure (CAP) in the emergency core cooling system pump net positive suction head (NPSH) evaluation.

The NRC staff recognizes that its February 24, 2014,² response to the ACRS does not resolve the Committee's concerns regarding the use of CAP for the U.S. Advanced Pressurized Water Reactor (US-APWR). However, the staff views that limited CAP credit, as proposed by the applicant, preserves the use of successive compensatory measures to prevent accidents or mitigate damage consistent with the principle of defense-in-depth. Given the important role that containment integrity plays in maintaining the defense-in-depth concept, the staff proposes to attempt to reach a common understanding with the ACRS on how to demonstrate acceptable results.

¹ This letter can be found in the Agencywide Documents Access and Management System (ADAMS) at Accession Number [ML14112A358](#).

² ADAMS Package Accession No. [ML13365A056](#).

J. Stetkar

- 2 -

The NRC staff appreciates the comments and recommendations provided by ACRS and would like to discuss further the role of additional defense-in-depth measures or additional analysis as they relate to achieving an appropriate balance of prevention and mitigation for new reactor designs. The staff will work with the ACRS to schedule this interaction.

Sincerely,

/RA/

Mark A. Satorius
Executive Director
for Operations

Docket No.: 52-021

cc: Chairman Macfarlane
Commissioner Svinicki
Commissioner Apostolakis
Commissioner Magwood
Commissioner Ostendorff
SECY

The NRC staff appreciates the comments and recommendations provided by ACRS and would like to discuss further the role of additional defense-in-depth measures or additional analysis as they relate to achieving an appropriate balance of prevention and mitigation for new reactor designs. The staff will work with the ACRS to schedule this interaction.

Sincerely,

/RA/

Mark A. Satorius
Executive Director
for Operations

Docket No.: 52-021

cc: Chairman Macfarlane
Commissioner Svinicki
Commissioner Apostolakis
Commissioner Magwood
Commissioner Ostendorff
SECY

DISTRIBUTION: LTR-14-0226

PUBLIC

D081

LB2 R/F

RidsNroOd

RidsEdoMailCenter

RidsOgcMailCenter

RidsNroDnrl

RidsOcaMailCenter

RidsAcrcAcnwMailCenter

RidsOpaMailCenter

RidsNroDnrlLb2

RidsNroMailCenter

RidsNroLACSmith

WWard, NRO

ADAMS Accession No.: ML14112A359 - pkg

via email*

EDO-002

OFFICE	NRO/DNRL/LB2:PM*	NRO/DNRL/LB2: LA*	NRO/DNRL/LB2:PM*	Tech Ed*	NRO/DNRL/LB2:BC*
NAME	RReyes (WWard for)	CMurphy	WWard	JDougherty	SLee
DATE	05/13/2014	05/06/2014	05/13/2014	05/08/2014	05/12/2014
OFFICE	NRO/DSRA:BC*	NRO/DSRA:BC*	NRR/DSS/SCVB:BC*	NRO/DSRA: D*	OGC*
NAME	JMcKirgan	IFrankl	RDennig	CAder	NLO-MLewis
DATE	05/09/2014	05/12/2014	05/14/2014	05/14/2014	06/17/2014
OFFICE	NRO/DNRL: D	NRO: OD	EDO		
NAME	FAkstulewicz (MDelligatti for)	GTracy-G. Holahan for	MSatorius		
DATE	06/17/2014	06/26/2014	06/25/2014		

OFFICIAL RECORD COPY