Kristine Svinicki		
From: Sent: To: Subject: Attachments:	David Pelton - NOW Wednesday, May 21, 2008 11:30 AM Kristine Svinicki - SOY Office of Research Response to ACRS Regarding SOARC response to acrs regarding soarca lvl-3 pra.doc	CA Level-3 PRA.
Commissioner,		
Please find attac with investigating le	ched the Office of Research response to the ACRS regardin evel-3 PRA as it relates to the SOARCA study.	ng their planned path forward
(b)(5)		
		5
Please recall that	at in Commissioner Lyons' vote, he recommends that staff co	onduct a level-3 PRA at one of
the pilot sites as a s	separate, Commission-approved and funded program.	IN S
	(b)(3)	Based on the staff's
PRA evaluation sho	rd (as discussed in the attached letter to ACRS) and Commould not hold up completion of SOARCA	issioner Lyons' view that further
	(b)(5)	15
(b)(5)		EX 5
David Pelton		

enformation in this record was deleted in accordance with the Freedom of Information Ass.

Exemptions

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FOLAPA

Dr. William Shack, Chairman Advisory Committee on Reactor Safeguards U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

SUBJECT:

SEQUENCE SELECTION APPROACH FOR THE STATE-OF-THE-ART

REACTOR CONSEQUENCE ANALYSES PROJECT

Dear Dr. Shack:

We appreciate your letter of April 21, 2008, reiterating the Advisory Committee on Reactor Safeguards' (ACRS or the Committee) concern regarding selecting accident sequences for our state-of-the-art reactor consequence analyses (SOARCA). To address this concern, the staff met with several members of the Committee on May 8, 2008. As a result of the meeting, the staff understands that the two main concerns the Committee has with the SOARCA methodology are: (1) assuring that the methodology does not inadvertently or otherwise omit high consequence sequences that are of lower frequency than the cut off frequency; and (2) clear presentation of the SOARCA approach and results to both internal and external stakeholders.

As you are aware, the main goal of SOARCA is to develop a more realistic, state-of-the-art evaluation of severe accident progression, radiological releases, and offsite consequences for dominant accident sequences. Therefore, the staff applied a cut off frequency to focus the study on those dominant accident sequences. Although SOARCA was not meant to be a risk study, while completing the analyses for Surry and Peach Bottom, the staff has used available risk insights to complement the cut off frequency in identifying dominant accident sequences. We recognize that it is incumbent upon the staff to provide the ACRS with the information necessary to clearly articulate and document the SOARCA considerations and approach, and to present the results in the most understandable fashion for the different stakeholders.

Per your letter and the subsequent discussion, the staff plans to investigate what industry-developed level-3 probabilistic risk assessments are available, or explore other methods that

could be used to clarify the SOARCA methodology. The staff will also use insights from this activity to help properly and clearly communicate the results of SOARCA.

-2-

Sincerely,

/RA/

R. W. Borchardt Executive Director for Operations

cc: Chairman Klein Commissioner Jaczko Commissioner Lyons Commissioner Svinicki SECY could be used to clarify the SOARCA methodology. The staff will also use insights from this activity to help properly and clearly communicate the results of SOARCA.

Sincerely,

/RA/

R. W. Borchardt Executive Director for Operations

cc: Chairman Klein Commissioner Jaczko Commissioner Lyons Commissioner Svinicki SECY

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