CCNPP3COLA PEmails

From: Arora, Surinder
Sent: Friday, July 24, 2009 1:18 PM
To: katie.thurstin@unistarnuclear.com; Jennifer.McQueeney@unistarnuclear.com; michael.stevenson@unistarnuclear.com
Cc: Rycyna, John
Subject: FW: CCNPP3 - DRAFT RAI 136 (eRAI 3368)
Attachments: RAI 136 RSAC 3368.doc

Resent to three addressees - I had some incorrect e-mail addresses.
Sorry for the inconvenience.

Surinder Arora

From: Arora, Surinder
Sent: Friday, July 24, 2009 1:07 PM
To: 'Poche, Robert'; 'katie.thurstin@unistar.com'; 'Jennifer.McQueeney@unistar.com'; 'michael.stevensen@unistar.com'
Cc: CCNPP3COL Resource; Tammara, Seshagiri; Lauron, Carolyn; Colaccino, Joseph; Biggins, James; Simon, Marcia; Vrahoretis, Susan; Rycyna, John
Subject: CCNPP3 - DRAFT RAI 136 (eRAI 3368)

Rob,

Attached is DRAFT RAI No. 136 (eRAI No. 3368). You have until August 7, 2009 to review it and decide whether you need a conference call to discuss it before the final issuance. After the call or after August 7, 2009, the RAI will be finalized and sent to you for response. You will then have 30 days to respond. In reviewing the draft RAI, please also review and confirm that the RAI does not contain any proprietary information.

Thanks.

SURINDER ARORA, PE
PROJECT MANAGER,
Office of New Reactors
US Nuclear Regulatory Commission

Phone: 301 415-1421
FAX: 301 415-6406
Email: Surinder.Arora@nrc.gov

Hearing Identifier: CalvertCliffs_Unit3Cola_Public_EX
Email Number: 816

Mail Envelope Properties (CB87FC66F95637428C5E0D066E756B6FC054974F41)

Subject: FW: CCNPP3 - DRAFT RAI 136 (eRAI 3368)
Sent Date: 7/24/2009 1:18:29 PM
Received Date: 7/24/2009 1:18:30 PM
From: Arora, Surinder

Created By: Surinder.Arora@nrc.gov

Recipients:
"Rycyna, John" <John.Rycyna@nrc.gov>
Tracking Status: None
"katie.thurstin@unistarnuclear.com" <katie.thurstin@unistarnuclear.com>
Tracking Status: None
"Jennifer.McQueeney@unistarnuclear.com" <Jennifer.McQueeney@unistarnuclear.com>
Tracking Status: None
"michael.stevenson@unistarnuclear.com" <michael.stevenson@unistarnuclear.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	1173	7/24/2009 1:18:30 PM
RAI 136 RSAC 3368.doc	29690	

Options
Priority: Standard
Return Notification: No
Reply Requested: Yes
Sensitivity: Normal
Expiration Date:
Recipients Received:

Request for Additional Information No. 136
DRAFT
7/24/2009

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 03.05.01.06 - Aircraft Hazards
Application Section: 3.5.1.6

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

03.05.01.06-2

Regulatory Guide (RG) 1.206 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. The Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 FSAR Section 2.2 describes the site-specific aircraft and airway hazard evaluations with impact probability determination. In response to RAI 10 RSAC 945, Question 02.02.01-02.02.02-2 (letter UN#08-044, October 6, 2008, page 3 of 7), the applicant provided the Four Factor Formula for the determination of annual aircraft crash impact frequency for the facility (F) per year, using estimated number of operations (N); aircraft crash rate (P), per take off/landing or per in-flight; aircraft crash location conditional probability (f), per square mile; and the site-specific effective area (A), square miles .

In response to RAI 48 RSAC 1604, Question 03.05.01.06-1 (letter UN#09-16, February 26,2009, page 2), the applicant provided aircraft crash rate (P) by aircraft type for a take off and landing.

In order to complete the review and perform independent confirmatory analysis, the staff requires the following information:

a) an explanation for the airport operations impact frequency and non-airport operations impact frequency and why the calculated airport operations impact frequency for general aviation and commercial aviation (air carrier) is zero (see letter UN#08-044, October 6, 2008, page 6 of 7)

b) the data for aircraft crash location conditional probability (per square mile), f_{ijk} (x,y), for each aircraft type, each flight phase, and each flight source (see letter UN#08-044, October 6, 2008, page 4 of 7)

c) a sample calculation using the aircraft crash location conditional probability data, the supplied aircraft crash rate (provided in letter UN#09-16, February 26,2009, page 2) and the other data to calculate the total aircraft

Impact Frequency, per year with the Four Factor Formula (provided in letter UN#08-044, October 6, 2008, page 3 of 7)