

KHNPDCDRAIsPEm Resource

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Sent: Monday, June 01, 2015 8:34 AM
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Cc: Lee, Samuel; Ward, William; Erwin, Kenneth; Quinlan, Kevin
Subject: APR1400 Design Certification Application RAI 21-7913 (2.3.5 Long-Term Atmospheric Dispersion Estimates for Routine Releases)
Attachments: APR1400 DC RAI 21 RHMB 7913.pdf; image001.jpg

KHNP

The attachment contains the subject request for additional information (RAI). This RAI was sent to you in draft form. Your licensing review schedule assumes technically correct and complete responses within 30 days of receipt of RAIs.

Please submit your RAI response to the NRC Document Control Desk.

Thank you,

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image001.jpg	4840	

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REQUEST FOR ADDITIONAL INFORMATION 21-7913

Issue Date: 06/01/2015

Application Title: APR1400 Design Certification Review – 52-046

Operating Company: Korea Hydro & Nuclear Power Co. Ltd.

Docket No. 52-046

Review Section: 02.03.05 - Long-Term Atmospheric Dispersion Estimates for Routine Releases

Application Section: Long-Term Atmospheric Dispersion Estimates for Routine Releases

QUESTIONS

02.03.05-1

As stated in SRP Section 2.3.5, 10CFR20, subpart D, 10CFR50.34a, 10CFR50 Appendix I, and 10CFR100.21(c)(2) provide the requirements related to long-term atmospheric dispersion estimates for routine releases.

SRP Section 2.3.5 Acceptance Criteria 1 states, in part, that a detailed description of the atmospheric dispersion and deposition models used by the applicant to calculate annual average concentrations in air and amount of material deposited as a result of routine releases of radioactive materials to the atmosphere should be provided. The models should be sufficiently documented and substantiated to allow a review of their accuracy and validity, source configuration, suitability of input parameters, topography, and appropriateness for the site, plant, and release characteristics.

So that the staff may independently conduct a confirmatory analysis to verify the technical acceptability per NRC Regulatory Guide 1.111, please provide any XOQDOQ input and output files used to determine the Annual Average X/Q values at Site Boundary as presented in Table 2.0-1 (2 of 4). These files should include any joint frequency distributions (JFD) used in the analysis as well as a description of what data was used to derive the JFD. Include in this RAI response any assumptions (i.e., release modes) employed during the analysis and update the applicable DCD sections if needed.

