

August 6, 2013

MEMORANDUM TO: Michael J. Case, Director
Division of Engineering
Office of Nuclear Regulatory Research

FROM: Thomas H. Boyce, Chief **/RA/**
Regulatory Guide Development Branch
Division of Engineering
Office of Nuclear Regulatory Research

SUBJECT: RESULTS OF PERIODIC REVIEW OF REGULATORY GUIDE
(RG) 1.113

This is to document the agency's periodic review of RG 1.113 "Estimating Aquatic Dispersion of Effluents from Accidental and Routine Reactor Releases for the Purpose of Implementing Appendix I." As discussed in Management Directive 6.6 "Regulatory Guides," the NRC staff reviews regulatory guides approximately every five years to ensure that the guides continue to provide useful guidance. Documentation of the staff's review is enclosed.

No significant technical or regulatory issues were identified in this review. The guide continues to be useful for its original purpose. Staff and external stakeholders are currently using existing software that was developed by NRC to implement their existing programs to meet the requirements of Appendix I to 10 CFR 50, "Numerical Guides for Design Objectives and Limiting Conditions for Operation to Meet the Criterion "As Low as is Reasonably Achievable" for Radioactive Material in Light-Water-Cooled Nuclear Power Reactor Effluents," and few, if any, license amendments are anticipated.

Therefore, we conclude that no changes are needed for this guide. During the next periodic review, we recommend that staff consider referencing or endorsing ANS 2.18, "Standards for Evaluating Radionuclide Transport in Surface Water for Nuclear Power Sites."

Enclosure: Response to Review Questions for RG 1.113

CONTACTS: Ralph Cady, RES/DRA/ETB
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