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October 2, 2014

MEMORANDUM TO: Brian E. Thomas, Acting Director  
Division of Engineering  
Office of Nuclear Regulatory Research

FROM: Mark Orr, Acting Chief */RA/*  
Regulatory Guidance and Generic Issues Branch  
Division of Engineering  
Office of Nuclear Regulatory Research

SUBJECT: RESULTS OF PERIODIC REVIEW OF REGULATORY GUIDE  
(RG) 8.19

This memorandum documents the US Nuclear Regulatory Commission (NRC) periodic review of regulatory guide (RG) 8.19, Revision 1, "Occupational Radiation Dose Assessment in Light-Water Reactor Power Plants -- Design Stage Man-Rem Estimates," issued in June 1979. The RG describes a method acceptable to the NRC staff for performing an assessment of collective occupational radiation dose as part of the ongoing design review process involved in designing a light water-cooled power reactor (LWR) so that occupational radiation exposures will be as low as reasonably achievable (ALARA). As discussed in Management Directive 6.6, "Regulatory Guides," the NRC staff reviews RGs approximately every 5 years to ensure that the RGs continue to provide useful guidance. Documentation of the NRC staff review is enclosed.

Based on the results of the periodic review, the staff concludes that a revision to RG 8.19, Revision 1, is not warranted at this time.

Enclosure:  
As stated

CONTACT: Harriet Karagiannis, RES/DE/RGGIB  
301-251-7477

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