



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
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June 18, 2018

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

FROM: Dogan Seber, Chief */RA/*  
Structural, Geotechnical, and Seismic Engineering Branch  
Division of Engineering  
Office of Nuclear Regulatory Research

SUBJECT: RESULTS OF PERIODIC REVIEW OF REGULATORY GUIDE  
(RG) 1.57 DESIGN LIMITS AND LOADING COMBINATIONS  
FOR METAL PRIMARY REACTOR CONTAINMENT SYSTEM  
COMPONENTS

This memorandum documents the US Nuclear Regulatory Commission (NRC) periodic review of Regulatory Guide (RG) 1.57, Revision 2, "*Design Limits and Loading Combinations for Metal Primary Reactor Containment System Components*," .The RG issued in June 1973 with revisions in March 2007 and May 2013, describes an approach that the staff of the NRC considers acceptable for use in designing metal primary reactor containment system components and approves methods for demonstrating structural integrity. 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 RG 1.57 need not be updated until a further need arises for NRC's licensing activities and recommends to continue with the current version of the Regulatory Guide. However, if NRC's licensing activities presents a need for revision in the near future, the NRC staff will perform a complete review analyzing the need from the user office and provide a plan and timeframe to address the issues.

Enclosure:  
As stated

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