



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

September 19, 2014

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

FROM: Harriet Karagiannis, 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) 1.125

This memorandum documents the US Nuclear Regulatory Commission (NRC) periodic review of Regulatory Guide (RG) 1.125, Revision 2, "Physical Models for Design and Operation of Hydraulic Structures and Systems for Nuclear Power Plants." The RG was published in March 2009 and describes the details and documentation of data and studies that an applicant should include in the preliminary or final safety analysis report (PSAR/FSAR) to support the use of physical hydraulic model testing for predicting the performance of hydraulic structures and systems for nuclear power plants. 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 1.125, Revision 2 is not warranted at this time as the issues identified are minor in nature and do not affect the technical content of the RG.

Enclosure:  
As stated

CONTACT: Edward O'Donnell, RES/DE/RGGIB  
301-251-7455

September 19, 2014

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

FROM: Harriet Karagiannis, 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) 1.125

This memorandum documents the US Nuclear Regulatory Commission (NRC) periodic review of Regulatory Guide (RG) 1.125, Revision 2, "Physical Models for Design and Operation of Hydraulic Structures and Systems for Nuclear Power Plants." The RG was published in March 2009 and describes the details and documentation of data and studies that an applicant should include in the preliminary or final safety analysis report (PSAR/FSAR) to support the use of physical hydraulic model testing for predicting the performance of hydraulic structures and systems for nuclear power plants. 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 1.125, Revision 2 is not warranted at this time as the issues identified are minor in nature and do not affect the technical content of the RG.

Enclosure:  
As stated

CONTACT: Edward O'Donnell, RES/DE/RGGIB  
301-251-7455

**DISTRIBUTION:**

DE r/f

**ADAMS Accession No: ML15104A372**

OFFICE	RES/DE/ RGGIB	SUNSI Review	RES/DE/SGSEB	RES/DE/SGSEB	RES/DE
NAME	E. O'Donnell	E.O'Donnell PM	R.Gascot Technical Lead	J. Burke, BC	H.KaragiannisActing BC
DATE	09 /17 /14	09/ 17 /14	09/18 /14	09/18 /14	09/19 /14

**OFFICIAL RECORD COPY**