



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

August 5, 2016

MEMORANDUM TO: Those on the Attached List

FROM: Richard Correia, Director */RA/*
Division of Risk Analysis
Office of Nuclear Regulatory Research

SUBJECT: IMPENDING PUBLICATION OF NUREG 1855, REVISION 1,
"GUIDANCE ON THE TREATMENT OF UNCERTAINTIES
ASSOCIATED WITH PRAS IN RISK-INFORMED
DECISIONMAKING"

I am forwarding for your review prior to publication Revision 1 to NUREG 1855, "Guidance on the Treatment of Uncertainties Associated with PRAs in Risk-Informed Decisionmaking," (see ADAMS accession number ML16207A425). The Office of Nuclear Regulatory Research (RES) has prepared this revision to the guidance on the treatment of uncertainty in risk-informed decisionmaking with exceptional support from the staff of the Office of Nuclear Reactor Regulation (NRR) and the Office of New Reactors (NRO). RES appreciates the interactions and support from NRR and NRO in the development of this revision to NUREG 1855. The support provided was critical to the development of the changes and were invaluable to the public workshop held in November 2015 that further informed this revision to the NUREG.

In developing this revision, the NRC recognized that the Electric Power Research Institute (EPRI) was also performing work in this area with similar objectives. Both the NRC and EPRI believed a collaborative effort to have technical agreement and to minimize duplication of effort would be more effective and efficient. To this end, RES and EPRI have worked together under a Memorandum of Understanding and, as such, the products of the two efforts complement each other. In providing guidance on the treatment of uncertainties, both the NRC and EPRI documents start with the specific activity and the decision under consideration to determine whether the treatment of uncertainties should use the approach and guidance provided in NUREG-1855, as complemented by EPRI report 1016737, "Treatment of Parameter and Model Uncertainty for Probabilistic Risk Assessments" [EPRI, 2008] and EPRI report 1026511, "Practical Guidance on the Use of PRA in Risk-Informed Applications with a Focus on the Treatment of Uncertainty" [EPRI, 2012]. This NUREG, which updates the original NUREG-1855 released in 2009, better structures the guidance to licensees and further clarifies the NRC staff decisionmaking process in addressing uncertainties in risk-informed decisionmaking.

We are requesting your comments two weeks from the date of the memorandum, after which time RES will submit the report for publication. If you have any questions pertaining to this document please contact Mary Drouin of my staff.

CONTACT: Mary Drouin RES/DRA
(301) 415-2091

MEMORANDUM TO THOSE ON THE ATTACHED LISTED DATED 08/05/2016

MEMORANDUM TO:

Mark Lombard, Director
Division of Spent Fuel Management
Office of Nuclear Material Safety and Safeguards

Craig Erlanger, Director
Division of Fuel Cycle Safety, Safeguards
and Environmental Review
Office of Nuclear Material Safety and Safeguards

John Monninger, Director
Division of Safety Systems and Risk Assessment
Office of New Reactors

Joseph G. Giitter, Director
Division of Risk Assessment
Office on Nuclear Reactor Regulation

Melanie Galloway, Director
Division of Security Policy
Office of Nuclear Security and Incident Response

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ADAMS Accession No.: ML16207A425

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DATE	07/25/16	07/25/16	08/03/16	08/05/16

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