

NRR-PMDAPEm Resource

From: Doyle, Daniel
Sent: Thursday, July 16, 2015 1:03 PM
To: 'markleyse@gmail.com' (markleyse@gmail.com)
Cc: Burnell, Scott; Bladey, Cindy; Inverso, Tara
Subject: Status of PRM-50-108

Mr. Leyse,

I am writing to provide an update on your letter dated June 19, 2014, in which you submitted a petition for rulemaking to the U.S. Nuclear Regulatory Commission (NRC). In your letter, you requested that the NRC develop new regulations requiring that (1) spent fuel pool (SFP) accident evaluation models use data from multi-rod bundle (assembly) severe accident experiments for calculating the rates of energy release, hydrogen generation, and fuel cladding oxidation from the zirconium-steam reaction; (2) SFP accident evaluation models use data from multi-rod bundle (assembly) severe accident experiments conducted with pre-oxidized fuel cladding for calculating the rates of energy release (from both fuel cladding oxidation and fuel cladding nitriding), fuel cladding oxidation, and fuel cladding nitriding from the zirconium-air reaction; (3) SFP accident evaluation models be required to conservatively model nitrogen-induced breakaway oxidation behavior; and (4) licensees be required to use conservative SFP accident evaluation models to perform annual SFP safety evaluations of: postulated complete loss-of-coolant accident (LOCA) scenarios, postulated partial LOCA scenarios, and postulated boil-off accident scenarios.

The NRC docketed your letter as petition for rulemaking (PRM) 50-108. A notice of docketing was published in the *Federal Register* on October 7, 2014 (79 FR 60383).

The NRC is evaluating the petition. Once the petition has been resolved, the NRC will publish a notice in the *Federal Register* explaining the NRC's finding. You will also receive a letter at that time notifying you of the action the NRC has taken.

Please contact me at Daniel.Doyle@nrc.gov or (301) 415-3748 if you have any questions.

Sincerely,

Dan Doyle

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Hearing Identifier: NRR_PMDA
Email Number: 2235

Mail Envelope Properties (Daniel.Doyle@nrc.gov20150716130200)

Subject: Status of PRM-50-108
Sent Date: 7/16/2015 1:02:40 PM
Received Date: 7/16/2015 1:02:00 PM
From: Doyle, Daniel

Created By: Daniel.Doyle@nrc.gov

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Tracking Status: None

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Files	Size	Date & Time
MESSAGE	1966	7/16/2015 1:02:00 PM

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