



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

September 20, 2012

SUBJECT: CLOSED INFORMATIONAL CONFERENCE WITH ENERGENCY CORPORATION ON REACTOR CORE PERFORMANCE IN GRAND GULF NUCLEAR STATION

FACILITY: Grand Gulf Nuclear Station (GGNS)

DOCKET: 50-416

DATE & TIME: October 11, 2012
8:00 a.m. (CDT)

LOCATION: Echelon Auditorium Lobby, Echelon, 1340 Echelon Parkway, Jackson, Mississippi 39213

PURPOSE: Boiling water reactor fuel bundles are enclosed in fuel channels that direct coolant up through each fuel assembly and act as a bearing surface for control rods. The purpose of the meeting is to discuss the cause(s) of fuel channel distortion and understand predicted behavior during the current operating cycle.

CATEGORY: This meeting is closed to public observation because it will involve the discussion of proprietary information.

PARTICIPANTS: NRC
Dr. Dale A. Powers, Senior Technical Analyst, TSB, DRS
Robert C. Hagar, Acting Chief, Project Branch C, Division of Reactor Projects (DRP)
Richard L. Smith, Senior Resident Inspector, Grand Gulf Nuclear Station, DRP
Dr. Dustin R. Reinert, Resident Inspector, Palo Verde Nuclear Generating Station, DRP
Blake Rice, Resident Inspector, Grand Gulf Nuclear Station, DRP
Paul M. Clifford, Senior Technical Advisor for Reactor Fuel, Division of Safety Systems, Office of Nuclear Regulation

LICENSEE

Michael Perito, GGNS Vice President, Operations
Rex Putnam, Director, Engineering – NUC
Fred Smith, Manager, Fuels and Analysis
Scott Stanchfield, Supervisor, BWR Fuels
Bob Carroll, Supervisor, Rx Engineering, GGNS
David Smith, Senior Staff, BWR Fuels
Jim Head, Senior Engineer, BWR Fuels
Rita Jackson, Senior Licensing Specialist, GGNS

MEETING CONTACT: Dr. Dale A. Powers, NRC Region IV
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Enclosure: Agenda

Distribution for Grand Gulf

E-Mail To:

NRC Attendees
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R:\REACTORS\GG 10-11-12 Meeting Notice

ML12265A256

SUNSI Rev Compl.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ADAMS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Reviewer Initials: DAP	
Publicly Avail	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sensitive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Sens Type Initials: DAP	
RIV:DRS/TSB/STA	C:TSB	AC:DRP/PBC	PAO	Director/DRS
DAPowers	RLKellar	RCHagar	VDricks	TBBlount
not available	/RA/	/RA/	/RA/	/RA/
	9/17/12	9/18/12	9/19/12	9/20/12

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PROPOSED AGENDA FOR

CLOSED INFORMATIONAL CONFERENCE WITH ENTERGY CORPORATION ON REACTOR
CORE PERFORMANCE IN GRAND GULF NUCLEAR STATION

October 11, 2012

<u>TOPIC</u>	<u>LEAD</u>
Introductions and opening remarks	NRC/Entergy
Results of Root-Cause Evaluations of Fuel Channel distortion at GGNS	Entergy
Applied licensee/vendor/industry fuel channel distortion Management Guidelines	Entergy
Continued adequacy of GGNS TS LCO 3.13 (each control rod shall be operable) and 3.1.4 (Control Rod Scram times) in lieu of significant fuel channel distortion	Entergy
Comparison of GGNS core dimensional margins for control rod blade insertion (bundle-to-bundle and bundle-to-blade gap spacing) versus other BWR designs	Entergy
GGNS fuel channel supply vendor designs and relevant processing specifications (dimensions, alloy, texture, and heat treatment) For the last two cycles For the current cycle	Entergy
GGNS fuel channel surveillances (rod settling) and results Completed during the last two cycles Completed during the last refueling outage Planned for the current cycle (including vendor-recommendations for augmentation given observation of slow to settle control blades)	Entergy
GGNS fuel channel exposures and shuffle strategy in the core Over the past two cycles Predicted for the current cycle	Entergy
Overview comparison of fuel channel historical performance at GGNS versus other BWR plants, including RBS	Entergy
Predictions of GGNS fuel channel distortion in current (post-uprate) cycle, including methods and results	Entergy
Industry and vendor initiatives – research and material property changes to improve performance	Entergy
Closing Remarks	Entergy/NRC