

June 1, 2005

Mr. Gordon Bischoff, Manager  
Owners Group Program Management Office  
Westinghouse Electric Company  
P.O. Box 355  
Pittsburgh, PA 15230-0355

SUBJECT: REQUEST FOR A DRAFT COPY OF WOG REPORT WCAP-16406,  
"EVALUATION OF DOWNSTREAM SUMP DEBRIS EFFECTS IN SUPPORT  
OF GSI-191," FOR INFORMATION ONLY

Dear Mr. Bischoff:

This letter is to request the Westinghouse Owners Group (WOG) to provide the Nuclear Regulatory Commission (NRC) with a draft copy of the report WCAP-16406, "Evaluation of Downstream Sump Debris Effects in support of GSI-191," for information only. The NRC staff does not intend to write a formal Safety Evaluation or charge any review fees. The report will be treated as proprietary, if it is accompanied by a withholding request in accordance with 10 CFR 2.390.

This report is needed to support NRC staff review of the Crystal River Unit 3 (CR3) response to Generic Letter (GL) 2004-02, "Potential Impact of Debris Blockage on Emergency Recirculation during Design Basis Accidents at Pressurized-Water Reactors." The WCAP-16406 provides the basis of the CR3 position on downstream effects in terms of addressing debris penetration of the Emergency Core Cooling System (ECCS) sump screen and its potential impact on operation of High Pressure Safety Injection (HPSI) pumps and throttle valves, and the potential for debris-laden ECCS water to impact thermal-hydraulic conditions in the reactor core post-loss of coolant accident (LOCA).

The WCAP-16406 is expected to be used and referenced in the vast majority of pressurized water reactor licensee responses to GL 2004-02. It forms the basis for licensee review of the effects of post-LOCA fluid on downstream components such as HPSI pumps, containment spray (CS) pumps, CS nozzles, fuel, fuel channels, etc. Since WCAP-16406 is expected to be the ultimate document used by licensees to determine ECCS operability and may form the basis for potential high-cost plant modifications, it is to both our and industry's advantage that NRC reviews WCAP-16406 prior to its use by the licensees. The staff was able to briefly review an earlier draft version of WCAP-16406 a few weeks ago at the WOG offices. Our initial review of WCAP-16406 indicated serious concerns and potential flaws within the document that warrants a further review by the NRC before it is finalized for use by the licensee.

Additionally, the CR3 response to GL 2004-02 states that WCAP-16406 will address many of their open items regarding the review of 'downstream effects'. The staff's brief review of WCAP-16406 indicated that it does not address in adequate detail the areas of concern. Therefore, it is more important that the NRC reviews WCAP-16406 before it is used by the licensee.

In order to support our review schedule for CR3, we ask that a draft copy of WCAP-16406 be provided to our staff by June 20, 2005.

G. Bischoff

-2-

The staff intends to provide its comments to the WOG on WCAP-16406 informally via a telephone conference. If you have any questions, please contact me at (301) 415-1395.

Sincerely,

***/RA/***

Herbert N. Berkow, Director  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Project No. 694

cc:

Mr. James A. Gresham, Manager  
Regulatory Compliance and Plant Licensing  
Westinghouse Electric Company  
P.O. Box 355  
Pittsburgh, PA 15230-0355

G. Bischoff

-2-

The staff intends to provide its comments to the WOG on WCAP-16406 informally via a telephone conference. If you have any questions, please contact me at (301) 415-1395.

Sincerely,  
**/RA/**  
Herbert N. Berkow, Director  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Project No. 694

cc:  
Mr. James A. Gresham, Manager  
Regulatory Compliance and Plant Licensing  
Westinghouse Electric Company  
P.O. Box 355  
Pittsburgh, PA 15230-0355

DISTRIBUTION:

PUBLIC	PDIV-2 Reading	RidsNrrDlpmPdiv2 (RGramm)
RidsNrrDlpmPdiv (HBerkow)	RidsNrrLALFeizollahi	JHannon
RidsOgcRp	RidsAcrsAcnwMailCenter	DSolorio
RReyes	SUnikewicz	THafera
		GShukla

**ACCESSION NO.: ML051520371**

**NRR-106**

OFFICE	PDIV-2/PM	PDIV-2/LA	SPLB/BC	PDIV/D
NAME	GShukla	LFeizollahi	JHannon	HBerkow
DATE	6/1/05	6/1/05	6/1/05	6/1/05

DOCUMENT NAME: E:\Filenet\ML051520371.wpd

OFFICIAL RECORD COPY