

August 12, 2009

MEMORANDUM TO: Jennifer L. Uhle, Director
Division of Systems Analysis
Office of Nuclear Regulatory Research

FROM: Ghani Zigh Senior Level Advisor */RA/*
Division of Systems Analysis
Office of Nuclear Regulatory Research

SUBJECT: TRIP REPORT FOR ICONE17 IN BRUSSELS, BELGIUM AND
FIRST OECD/CSNI SPENT FUEL PROJECT PROGRAM
REVIEW GROUP AND MANAGEMENT BOARD MEETING IN
PARIS, FRANCE

On July 10-23, 2009, I traveled to Brussels, Belgium and Paris, France. In Brussels, I presented a paper in ICONE 17 as well as attended all the sessions on the use of CFD in Nuclear Reactor Safety applications. In Paris, I attended the first meeting for the Program Review Group (PRG) and the Management Board (MB).

In ICONE 17, in Belgium, I made a presentation entitled "A Computational Study of Natural Convection Heat Transfer in Concentric Horizontal Cylinder Annulus". In this presentation, calculations using CFD best practice guidelines was used and compared with available experimental data. Additionally, in ICONE17, I attended all the sessions that involved the use of CFD. There were 14 sessions involving the use of CFD in Nuclear Reactor Safety applications. In all these sessions, CFD best practice guidelines were discussed.

In France, I participated in the first OECD/CSNI PRG and MB meeting for the PWR Zirc fire project. The experiment will be taking place in Sandia National Laboratory (SNL), Albuquerque, NM. In this first PRG and MB meeting, detailed technical presentation and explanation of the purpose and the steps of the program was presented by USNRC (Ghani Zigh) and Sandia National Laboratory principal investigator (Eric Lindgren) for the upcoming PWR Zirc fire

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experiment. The discussion also included the BWR zirc fire project. The BWR zirc fire project was concluded in June 2007. Other issues like project deliverables, sensitivity of the data, schedule and budget for 2009 and 2010 were also discussed. See attachments for details.

The content of this trip report is not likely to be of interest to the Commission.

Enclosures:

- 1: Trip report
- 2: Abstract of my presentation in ICONE 17
- 3: Meeting summary of OECD/CSNI/PRG1
- 4: Meeting summary for OECD/CSNI/MB1

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