

June 8, 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 OECD/CSNI SPONSORED SPECIAL CFD
GROUP MEETINGS IN PARIS, FRANCE, MAY 18-20,2009

On May 18-20, 2009, I traveled to Paris, France to attend a meeting of a Special CFD Group sponsored by the Committee on the Safety of Nuclear Installations (CSNI) part of the Organization for Economic Cooperation and Development (OECD). This group was formed when the work of three CFD writing groups (WG1, WG2 and WG3) was concluded. Writing Group 1 (WG1) produced a report entitled "Guidelines for Use of CFD in Nuclear Reactor Safety Application". The work was concluded in December 2006. Writing Group 2 (WG2) produced a report entitled "Assessment of CFD Codes for Nuclear Reactor Safety Problems". The work was concluded in December 2007. Writing Group 3 (WG3) will produce a report entitled "Extension of CFD Codes to Two-Phase Flow Safety Problems". The work will be concluded in June 2009. The specific goals of these three Writing Groups were to:

- Create best-practice guidelines for the use of single phase CFD in NRS applications.
- Develop an assessment matrix for use of single-phase CFD in NRS applications.
- Define extensions to CFD for use in two-phase applications and the experimental foundation required.

The proposal from the Special CFD group was to:

- Create, update and maintain a web-based centre of expertise on CFD for Nuclear Reactor Safety (NRS).
- Provide central organization for further workshops in CFD4NRS series, following those at GRS Garching, Germany in 2006 and CEA Grenoble, France 2008.
- Acts as a central organizing body for NRS benchmarking activities

Contact: Ghani Zigh, RES/DSA
(301) 251-7505

Three main topics were discussed in this meeting:

- Current CFD WIKI pages from WG1.
- Planning for the next CFD Workshop CFD4NRS-3, to be hosted by US NRC in September 2010.
- Kick-off meeting for the first CFD validation exercise (thermal fatigue in a T-junction).

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

Enclosures:

1: Trip report

2: Special CFD group agenda

3: Validation Exercise kick-off meeting agenda

Three main topics were discussed in this meeting:

- Current CFD WIKI pages from WG1.
- Planning for the next CFD Workshop CFD4NRS-3, to be hosted by US NRC in September 2010.
- Kick-off meeting for the first CFD validation exercise (thermal fatigue in a T-junction).

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

Enclosures:

- 1: Trip report
- 2: Special CFD group agenda
- 3: Validation Exercise kick-off meeting agenda

DISTRIBUTION:

DSA r/f

ADAMS Accession No.: ML091560321

OFFICE	SUNSI Review	RES/DSA
NAME	G.Zigh	G.Zigh
DATE	06/08/09	06/08/09

OFFICIAL RECORD COPY