

November 5, 2007

MEMORANDUM TO: John R. Jolicoeur, Chief
New and Advanced Reactors Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research

FROM: Donald E. Carlson, Senior Research Engineer */RA/*
New and Advanced Reactors Branch
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Office of Nuclear Regulatory Research

SUBJECT: SUMMARY OF OCTOBER 23, 2007, MEETING WITH TOSHIBA
CORPORATION ON ITS REQUEST FOR PRE-APPLICATION REVIEW
OF THE "SUPER-SAFE, SMALL, AND SIMPLE" (4S) REACTOR

On October 23, 2007, staff from the Nuclear Regulatory Commission's (NRC) offices of Nuclear Regulatory Research (RES), New Reactors (NRO), Nuclear Security and Incident Response (NSIR), Nuclear Materials Safety and Safeguards (NMSS), and Federal and State Materials and Environmental Management (FSME) met with representatives from Toshiba Corporation (Toshiba) and its three project partners, Japan's Central Research Institute for Electric Power Industry (CRIEPI), Westinghouse Electric Company (Westinghouse), and Argonne National Laboratory (ANL), to discuss their request to engage the NRC staff in pre-application review activities for design approval of the "Super-Safe, Small, and Simple" (4S) reactor.

As detailed at the end of this memorandum, documents providing a comprehensive record of the meeting and associated communications are enclosed and/or otherwise available on the Internet or at specified accession numbers in the NRC's Agencywide Documents Access and Management System (ADAMS) at <http://www.nrc.gov/reading-rm/adams.html>. Following is a brief summary of the meeting.

Held in the NRC auditorium as a Category 1 public meeting, the meeting was attended by twelve pre-applicant team members from Japan, nine from the United States, forty-two NRC staff members, and twenty-one members of the public. In addition, six members of the public participated by telephone bridge line, three of them representing Indian tribal interests within the international Yukon River watershed. An approximately 1/30-scale model of the 4S reactor system was provided by the pre-applicant and displayed near the auditorium entrance.

After opening formalities and introductions, NRC staff gave a presentation outlining high-level questions confronting the pre-applicant and NRC, general objectives for pre-application reviews, and examples of possible pre-application review topics. Senior pre-applicant team members from Westinghouse, Toshiba, and CRIEPI then provided brief introductory remarks on their organizations' respective backgrounds, capabilities, and roles in relation to the 4S project. Next, the 4S team leader for Westinghouse presented a broad overview of the 4S reactor design, safety features, technology base, and compliance approach while outlining a proposed pre-application review plan that would culminate with the submittal of a 4S design approval application in early 2009. Following this presentation, the pre-applicant team responded to

clarifying technical questions from NRC staff, after which the staff led a discussion of potential next steps in relation to the pre-applicant's proposed plan. Suggested follow-up actions included near-term interactions pursuant to the pre-applicant's proposal to hold a series of 4S topical and design familiarization meetings with the staff in the coming months.

Diverse comments and questions were provided and discussed during the public comment period at the end of the meeting. Included were statements by representatives from the City of Galena, AK, indicating that a formal request for pre-application review of seven white papers related to the potential siting of a 4S reactor near Galena will be submitted soon.

Documents providing a comprehensive record of the meeting, including presentation materials and an official transcript of the proceedings, are available as indicated in the following table.

Document Description	Document Location
Toshiba's formal request for this initial meeting	ADAMS ML072540677
NRC's formal response to Toshiba's request	ADAMS ML072560034
Posted Category 1 public meeting notice	ADAMS ML072840065
Updated meeting agenda (room change)	ADAMS ML073090029, Enclosure 1
List of meeting attendees (in-person and call-in)	ADAMS ML073090030, Enclosure 2
NRC's presentation materials	ADAMS ML072950026
Pre-applicant's presentation materials	ADAMS ML072950025
Toshiba's handout list of 4S technical references	ADAMS ML073090187, Enclosure 3
Official NRC transcript of meeting proceedings	ADAMS ML073050078
KIYU National Public Radio 11/26/07 newscast with audio excerpts from meeting	http://www.kiyu.com/102607_KIYUnewscast.mp3
White papers referenced in public comments by Galena, AK, representatives	http://www.roe.com/about_techGalena.htm

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Enclosures:

As stated

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Distribution: DSA R/F

Package: ML073090027
Enclosure 1: ML073090029
Enclosure 2: ML073090030
Enclosure 3: ML073090187

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