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ML030240040 - CREATION OF A JOINT RES/NRR
ADVANCED REACTOR TECHNICAL ADVISORY GROUP TO
REVIEW ADVANCED REACTOR RESEARCH ACTIVITIES,
January 30, 2003

ML051720493 - REVISED CHARTER AND COMPOSITION OF
THE ADVANCED REACTOR TECHNICAL ADVISORY
GROUP, July 8, 2005

January 30, 2003

MEMORANDUM TO: Jared S. Wermiel, Chief, NRR/DSSA/SRXB
John N. Hannon, Chief, NRR/DSSA/SPLB/
Michael R. Johnson, Chief, NRR/DSSA/SPSB
William H. Bateman, Chief, NRR/DE/EMCB
Eugene V. Imbro, Chief, NRR/DE/EMEB
Jose A. Calvo, Chief, NRR/DE/EEIB
Jack E. Rosenthal, Chief, RES/DSARE/SMSAB
Mark A. Cunningham, Chief, RES/DRAA/PRAB
Nilish K. Choksi, Chief, RES/DET/MEB
John H. Flack, Chief, RES/DSARE/REAHFB

FROM: James E. Lyons, Director /RA/
New Reactor Licensing Project Office
Office of Nuclear Reactor Regulation

SUBJECT: CREATION OF A JOINT RES/NRR ADVANCED REACTOR
TECHNICAL ADVISORY GROUP TO REVIEW ADVANCED
REACTOR RESEARCH ACTIVITIES

The purpose of this memorandum is to request the services of your senior technical staff to participate in a newly created Technical Advisory Group (TAG). The TAG will provide advice and make recommendations to a joint Office of Nuclear Reactor Regulation/Office of Nuclear Regulatory Research (NRR/RES) Advanced Reactor Steering Committee on review activities and research activities associated with advanced reactor pre-application reviews, design certification reviews, and advanced reactor research infrastructure development. The steering committee and the TAG are being established as part of a process to ensure that advanced reactor review activities and research activities are planned and conducted in a manner that supports the agency's goals and objectives. Attachment 1 is a diagram of the process.

In the near-term, the staff must prepare to review advanced reactor designs by developing an infrastructure of methods, tools, data, facilities, and expertise, that would be applied within a unified regulatory framework. The TAG will support this activity by reviewing and assessing the agency's infrastructure needs that have been identified by the NRC technical staff in each of the key areas. These areas include both advanced light-water reactor designs (ALWR) and non-LWR (e.g., high-temperature gas cooled) designs. In the long-term, the TAG will support the maintenance of the advanced reactor research infrastructure by providing advice and recommendations to enhance the work.

The TAG will be comprised of the following senior technical staff members:

RES:

Stuart Rubin (RES/DSARE/REAHFB)
Nathan Siu (RES/DRAA/PRAB)
Joseph Muscara (RES/DET/MEB)
Stephen Bajorek (RES/DSARE/SMSAB)
Charlie Tinkler (RES/DSARE/SMSAB)

Various Addressees

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NRR:

Amy Cubbage (NRR/NRLPO)
Gareth Parry (NRR/DSAA)
Ralph Landry (NRR/DSSA/SRXB)
Goutam Bagchi (NRR/DE)
Andrzej Drozd (NRR/DSSA/SPSB)

Responsibilities include reviewing the advanced reactor review activities, research plans, and infrastructure assessment in preparation for pre-application and design certification review activities, and to make recommendations to the joint NRR/RES Advanced Reactor Steering Committee. Current activities and scope include ESBWR, ACR-700, SWR-1000, and GT-MHR. Attachment 2 contains the charter for the TAG.

The Steering Committee will be comprised of the following leadership team members:

RES:

Farouk Eltawila
Scott Newberry
Michael Mayfield
Charles Ader (Alternate)

NRR:

Gary Holahan
James Lyons
Richard Barrett
Deputy Division Director (Alternate)

Attachments: As stated

cc w/atts:	M. Virgilio, MNSS	F. Eltawila, RES	T. Bergman, EDO
	W. Kane, EDO	A. Thadani, RES	
	C. Paperiello, EDO	J. Strosnider, RES	
	S. Collins	J. Gray, OGC	
	B. Sheron	W. Borchardt	
	G. Holahan	S. Black	
	R. Barrett	W. Dean	
	J. Zwolinski	T. Marsh	
	D. Matthews	F. Gillespie	
	B. Boger	S. Newberry, RES	
	M. Mayfield, RES	C. Ader, RES	

NRR:

Amy Cubbage (NRR/NRLPO)
Gareth Parry (NRR/DSAA)
Ralph Landry (NRR/DSSA/SRXB)
Goutam Bagchi (NRR/DE)
Andrzej Drozd (NRR/DSSA/SPSB)

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Deputy Division Director (Alternate)

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	J. Zwolinski	T. Marsh	
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	B. Boger	S. Newberry, RES	
	M. Mayfield, RES	C. Ader, RES	

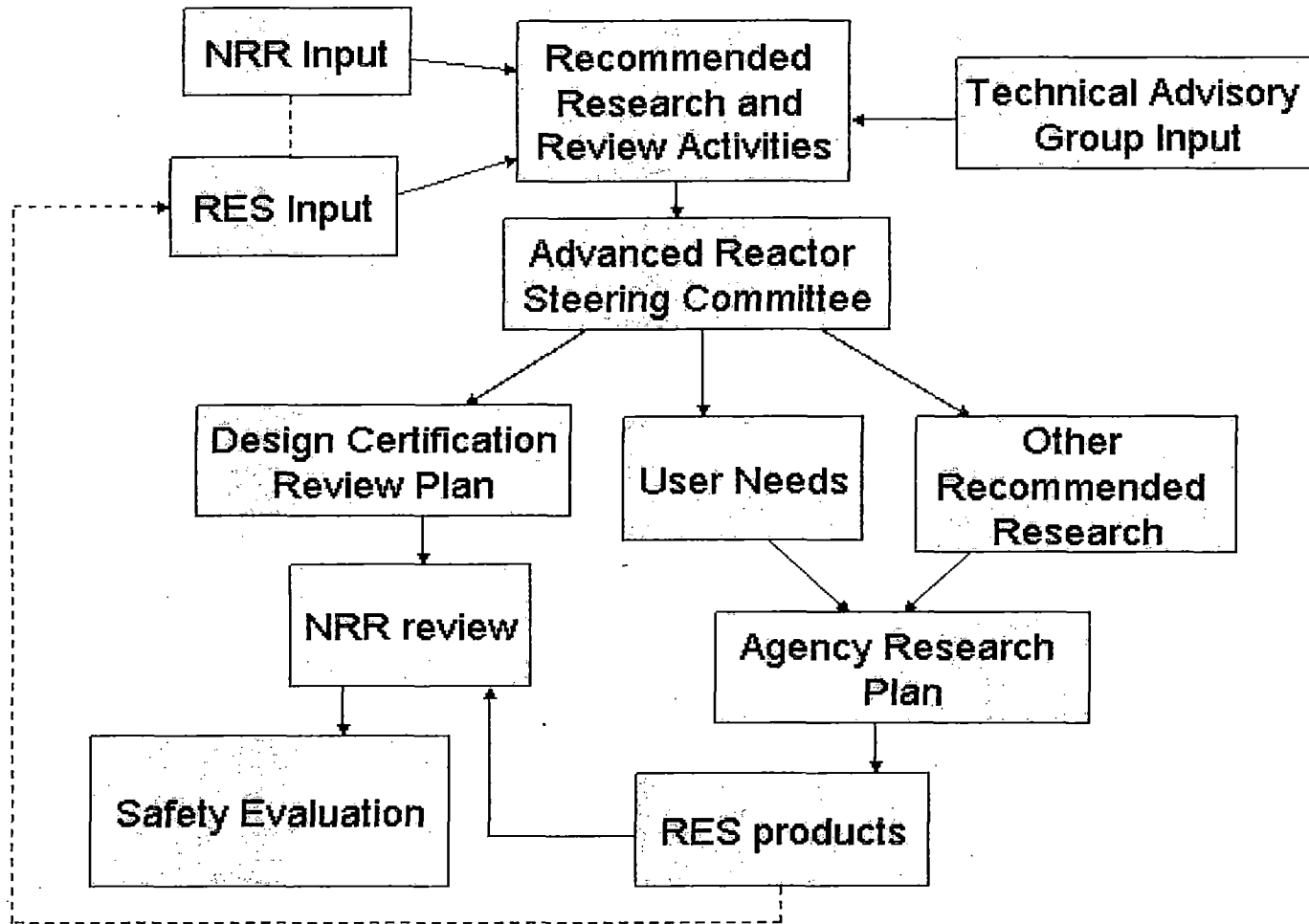
Distribution:

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ADAMS ACCESSION NUMBER: ML030240040

OFFICE	D:NRLPO
NAME	JLyons
DATE	1/28/2003

NEW REACTOR LICENSING REVIEWS



CHARTER

Technical Advisory Group

The Technical Advisory Group (TAG) has been formed to support the joint NRR and RES Advanced Reactor Steering Committee. The Steering Committee maintains the responsibility for designating and assigning proposed activities to one of three categories:

- (1) design certification review activities in support of safety evaluations,
- (2) user needs that request RES support on specific technical or safety issue,
- (3) other (anticipatory) research that supports the development and implementation of advanced reactor research programs.

The TAG will support the steering group by reviewing input from NRR and RES and binning research and review activities into one of the above three categories. TAG members responsibilities include the following:

- Provide advice on the level of research capability that would be appropriate for NRC to accomplish its regulatory function, and recommend any appropriate improvements.
- Solicit advice and input from cognizant Branch Chiefs and experts in the field on plans to improve research programs and activities on advanced designs.
- Maintain a questioning attitude with respect to seeking information on both the review process and research needs.
- Be able to address how the review process and research needs meet the agency's performance goals.
- Provide advice and comments on the need for analytic methods, tools, data, and expertise to evaluate and assess important safety areas within the regulatory framework.

July 8, 2005

MEMORANDUM TO: Jared S. Wermiel, Chief, NRR/DSSA/SRXB
John N. Hannon, Chief, NRR/DSSA/SPLB
Michael D. Tschiltz, Chief, NRR/DSSA/SPSB
William H. Bateman, Chief, NRR/DE/EMCB
Eugene V. Imbro, Chief, NRR/DE/EMEB
Jose A. Calvo, Chief, NRR/DE/EEIB
Frederick D. Brown, Acting Chief, RES/DSARE/AREAB
Patrick W. Baranowsky, Chief, RES/DSARE/SMSAB
David C. Lew, Chief, RES/DRAA/PRAB
Richard Croteau, Acting Chief, RES/DET/MEB
Michelle G. Evans, Chief, RES/DET/ERAB

FROM: William D. Beckner, Director */RA/*
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: REVISED CHARTER AND COMPOSITION OF THE ADVANCED
REACTOR TECHNICAL ADVISORY GROUP

The purpose of this memorandum is to revise the charter and composition of the advanced reactor Technical Advisory Group (TAG). The TAG provides advice and makes recommendations to the joint Office of Nuclear Reactor Regulation/Office of Nuclear Regulatory Research (NRR/RES) Advanced Reactor Steering Committee on review activities and research activities associated with advanced reactor pre-application reviews, design certification reviews, advanced reactor research infrastructure development, and policy issues related to advanced reactor designs.

The TAG will now be comprised of the following senior technical staff members selected by the Advanced Reactor Steering Committee:

Ralph Landry, Chairman, NRR/DSSA
Steven Arndt, RES/DET*
Goutam Bagchi, NRR/DE
Sudhamay Basu, RES/DSARE*
Stephen Bajorek, RES DSARE
Andrzej Drozd, NRR/DSSA
Joseph Muscara, RES/DET
Gareth Parry, NRR/DSSA
Stuart Rubin, RES/DSARE
Nathan Siu, RES/DRAA
Ted Sullivan, NRR/DE
Jerry Wilson, NRR/DRIP*

* New TAG members

Various Addressees

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The revised charter for the TAG is provided in Attachment 1 and a diagram of the process is provided in Attachment 2.

Attachments: As stated

cc w/atts: W. Borchardt
F. Gillespie
C. Ader
J. Lyons
C. Grimes

C. Miller
F. Eltawila
M. Cunningham
T. Martin
TAG members

D. Matthews
S. Bahadur
M. Mayfield
R. Barrett

Various Addressees

-2-

The revised charter for the TAG is provided in Attachment 1 and a diagram of the process is provided in Attachment 2.

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cc w/atts: W. Borchardt	C. Miller	D. Matthews
F. Gillespie	F. Eltawila	S. Bahadur
C. Ader	M. Cunningham	M. Mayfield
J. Lyons	T. Martin	R. Barrett
C. Grimes	TAG members	

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ADAMS ACCESSION NUMBER: ML051720493

OFFICE	PM:RNRP	SC:RNRP	SC:RES/DSARE	D:RNRP
NAME	ACubbage	LDudes	JDanna	WBeckner
DATE	06/22/2005	06/22/2005	06/27/2005	07/08/2005

OFFICIAL RECORD COPY

CHARTER

Technical Advisory Group

The Technical Advisory Group (TAG) was formed to support the joint Office of Nuclear Reactor Regulation (NRR) and Office of Nuclear Regulatory Research (RES) Advanced Reactor Steering Committee (ARSC). The TAG will review planned research and review activities proposed jointly by the NRR and RES staff to ensure that plans are comprehensive and that research activities support agency goals and new reactor licensing objectives. The membership of the TAG will include the following areas of expertise: Probabilistic Risk Assessment (PRA), Instrumentation and Controls, Thermal-Hydraulics, Fuels, Severe Accident Analysis, Materials, Structural, and Human Factors.

TAG Review Scope:

- Research activities in support of preapplication and design certification reviews of new and advanced reactor designs including Economic and Simplified Boiling-Water Reactor (ESBWR), Advanced CANDU Reactor (ACR), International Reactor Innovative and Secure (IRIS), Pebble Bed Modular Reactor (PBMR), 4S, etc.
- Safety research infrastructure development in support of advanced reactor reviews
- Advanced reactor technical policy issues identified by RES or requiring RES support
- Regulatory structure for new plant licensing including technology neutral framework development (an existing working group may need to be augmented to fulfill TAG function)
- Physical security from a plant design (i.e, not security program) perspective

TAG members responsibilities include the following:

- Review research programs developed by staff. Provide advice and comments to the staff on the appropriateness and adequacy of the proposed analytical methods, tools, data, and expertise to evaluate and assess important safety (and security?) areas within the regulatory framework.
- Advise the ARSC on whether the proposed research programs are appropriate and adequate for the U.S. Nuclear Regulatory Commission (NRC) to effectively and efficiently accomplish its regulatory review of new and advanced reactor designs.
- Maintain a questioning attitude with respect to seeking information on research needs.
- Be able to address how proposed research meets the agency's performance goals and supports new reactor licensing objectives.
- Provide advice on policy issues associated with new and advanced reactor designs.

- Prepare for TAG meetings by reviewing all background material in advance of the meeting and developing comments and recommendations for the staff.
- When requested, serve as the cognizant TAG representative for each presentation. The cognizant TAG member(s) will meet with the presenter prior to the meeting and will facilitate the discussion at the TAG meeting. When necessary, a pre-meeting will be held with a sub-group of the TAG.
- Produce and document a consensus recommendation for the ARSC.
- The TAG chairman and/or cognizant TAG member(s) will attend ARSC meetings and present the TAG's recommendations to the ARSC.

To ensure that the TAG can fulfill its responsibilities outlined above, the staff is expected to:

- Inform TAG members of upcoming topics to allow TAG members to prepare for the subject matter.
- Complete the TAG meeting preparation checklist prior to scheduling a TAG meeting.
- Ensure that the scope, content and emphasis of presentation handouts used for TAG meetings reflects good accepted practices.
- Provide background information and proposed research plans to TAG members at least 10 working days in advance of scheduled meetings.
- Provide TAG meeting handouts at least 2 days before the meeting.
- Meet with cognizant TAG representative(s) prior to the TAG meeting to ensure that representative(s) understand the proposed research and would be able to facilitate the discussion during the TAG meeting.
- Periodically update TAG on the progress, significant problems, changes and outcomes of approved research activities.

ADVANCED REACTOR RESEARCH PLAN DEVELOPMENT PROCESS

