

October 22, 2009

MEMORANDUM TO: Stewart Magruder, Branch Chief  
Advanced Reactor Branch 2  
Advanced Reactor Program  
Office of New Reactors

FROM: Thomas J. Kenyon, Senior Project Manager */RA/*  
Advanced Reactor Branch 2  
Advanced Reactor Program  
Office of New Reactors

SUBJECT: SUMMARY OF WORKSHOP ON SMALL AND MEDIUM-SIZED  
NUCLEAR REACTORS (SMRs)

On October 8 - 9, 2009, staff from the U.S. Nuclear Regulatory Commission (NRC) met with representatives of designers of small- and medium-sized nuclear reactors (SMRs), utilities, the Nuclear Energy Institute (NEI), the U.S. Department of Energy (DOE), national laboratories, other governmental agencies, and members of the public to discuss generic issues related to the licensing of SMRs. About 140 people attended the workshop in the Two White Flint North auditorium and another 50 attended via Webinar. Enclosures 1 and 2 are the meeting agenda and Enclosures 3 and 4 are the meeting attendees, respectively.

Chairman Gregory B. Jaczko opened the workshop, stating that meetings such as this were a wonderful opportunity for the NRC staff and stakeholders to collectively identify technical and policy issues, and to develop a common approach to resolve those issues, with a focus on safety and security. A copy of his prepared speech can be obtained from the Commission's Public Document Room, at One White Flint North, 11555 Rockville Pike (first floor), Rockville, Maryland. It is also available electronically from the Public Electronic Reading Room found on the Internet at the following web address: <http://www.nrc.gov/reading-rm.html>. From this site, the public can gain access to the NRC's Agencywide Document Access and Management System (ADAMS), which provides text and image files of NRC's public documents in the Publicly Available Records (PARS) component of ADAMS. The ADAMS accession number for the Chairman's remarks is ML092810166.

After the Chairman's opening remarks, representatives from DOE and NEI presented their perspectives of current and future SMR activities. The NRC staff then provided an overview of SMR designs and discussed potential key generic policy issues that have been identified during its previous interactions with the industry. The DOE and NRC staff slides can be found at ADAMS Accession Nos. ML092800244 and ML092800239, respectively. NEI did not use slides during its discussion. A file of the Webinar will be made available to those requesting the DVD from the NRC.

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The theme for the workshop was “One Issue, One Review, One Approval.” The staff encouraged key participants to obtain consensus positions among themselves on issues common to the SMR designs, submit a single proposal to address each issue, and work with the NRC staff to obtain a common resolution that could be applied to all or many of the facilities. The staff reminded the participants that it is not the NRC’s role to bring the industry together on these issues. However, the SMR designers could form groups and identify a lead that the NRC staff could interact with on each issue. For example, NEI could serve as lead on one issue common to all SMRs and assume the role of the point-of-contact for that particular issue. This approach would focus the reviews, obtain consistent resolutions, and conserve resources.

As the presentations were made, participants provided comments and asked questions throughout the meeting. At the end of the discussions, the participants identified the following items as follow-up activities to the workshop:

1. The NRC staff will develop an initial list of generic issues that it has identified during its interactions with SMR designers. The industry will provide feedback to expand or subtract from the list.
2. The industry should provide early informal feedback on their plans to submit licensing applications to the NRC, and then document those plans in response to an upcoming Regulatory Issue Summary (which will request an update to previously-submitted licensing plans).
3. The NRC will conduct a workshop on how to interface with the NRC and what licensing options are available under the Commission’s regulations (proposed for January 2010).
4. NEI will conduct a conference on the roles of SMR designers (scheduled for February 22, 2010).
5. The staff will conduct a meeting to discuss matters to consider while incorporating safeguards protection into the designs of SMRs (proposed for early 2010).
6. DOE will hold a workshop on funding opportunities for SMRs in FY 2010.
7. The SMR community will consider these discussions and decide on how they can work together to attain the goal of “One Issue, One Review, One Approval” for issues common to their designs.

At the close of the workshop, the NRC stated that it believed that the workshop afforded a good beginning to initiating a common dialogue on technical and policy issues that affected more than one design. The NRC staff reiterated its encouragement that key participants should work toward obtaining consensus positions among themselves on common issues and work with the NRC staff to obtain a common resolution that could be applied to all or many of the facilities.

S.Magruder

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In closing, however, the staff stated that, although it would prefer to have a single proposal submitted to the staff by the industry to address individual technical and policy issues to get started on resolving the issue, the staff will be proactive and initiate its own issue reviews if the industry does not initiate this effort.

Enclosures:

As stated

In closing, however, the staff stated that, although it would prefer to have a single proposal submitted to the staff by the industry to address individual technical and policy issues to get started on resolving the issue, the staff will be proactive and initiate its own issue reviews if the industry does not initiate this effort.

Enclosures:  
As stated

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**AGENDA**  
**WORKSHOP ON SMALL- AND MEDIUM-SIZED**  
**NUCLEAR REACTORS (SMRs)**  
**OCTOBER 8 – 9, 2009**

**Thursday, October 8, 2009**

8:45 a.m. – 9:00 a.m.	Welcome
9:00 a.m. – 9:30 a.m.	Opening Remarks (The Honorable Gregory B. Jaczko, Chairman, NRC)
9:30 a.m. – 10:00 a.m.	DOE Perspectives (R. Black, DOE)
10:00 a.m. – 10:30 a.m.	NEI Perspectives (P. Genoa, NEI)
10:30 a.m. – 10:45 a.m.	Break
10:45 a.m. – 12:00 p.m.	NRC Advanced Reactor Activities
12:00 p.m. – 1:00 p.m.	Lunch
1:00 p.m. – 1:30 p.m.	Overview of Generic Issues
1:30 p.m. – 2:30 p.m.	Licensing Issues (Licensing of Prototypes, International Codes and Standards, Multi-Module Facilities, Manufacturing Licenses)
2:30 p.m. – 3:00 p.m.	Design Basis Issues (Design Basis Events, Defense in Depth, Role of PRA, SSC Classification)
3:00 p.m. – 3:15 p.m.	Break
3:15 p.m. – 4:15 p.m.	Staffing, Human Factors, and Operational Issues
4:15 pm. – 4:45 p.m.	Process Heat Applications (facility interactions, regulatory boundaries, etc.)
4:45 p.m. – 5:00 pm.	Meeting Wrap-Up and Adjourn

**AGENDA**  
**WORKSHOP ON SMALL- AND MEDIUM-SIZED**  
**NUCLEAR REACTORS (SMRs)**  
**OCTOBER 8 – 9, 2009**

**Friday, October 9, 2009**

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|-------------------------|--|
| 8:30 a.m. – 9:00 a.m.   | Security Requirements, Safeguards Information Protection Programs  |
| 9:00 a.m. – 9:30 a.m.   | Aircraft Impact Assessments  |
| 9:30 a.m. – 10:15 a.m.  | Financial Issues<br>(NRC Annual Fees, Insurance and Liability Issues, Decommissioning Funding for SMRs)                        |
| 10:15 a.m. – 10:30 a.m. | Break  |
| 10:30 a.m. – 11:00 a.m. | Offsite Emergency Preparedness Issues<br>(Emergency Planning Zones, Alert Notification Systems, Response personnel and timing) |
| 11:00 a.m. – 11:30 a.m. | International Activities and Considerations  |
| 11:30 a.m. – 12:00 p.m. | General Discussion & Future Activities   |
| 12:00 p.m.              | Adjourn  |

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NUCLEAR REACTORS (SMRs)  
OCTOBER 8-9 2009**

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**WEBINAR ATTENDEES  
WORKSHOP ON SMALL-AND MEDIUM SIZED  
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