



**RIC 2010
ANS Presidents Committee for
Generic SMR licensing issues**

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March 10 ,2010

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Background

- 10 years of evolving dialogue between SMR reactor designers, project developers and NRC.

- October 2009 NRC SMR workshop:
 - Encouraged dialogue prior to license application.
 - For each issue, the SMR community should provide a consensus approach.

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SMR Generic Issues

- Emergency Planning
- Passive Safety systems
- Staffing – Human factors – operational issues
- Physical security –aircraft impact
- Financial Issues – Price Anderson, insurance, financial qualifications, decommissioning
- NRC fee rules
- Applicability of large light water requirements to SMR's
- Non-electrical generation process heat application
- Prototypes - proximity to industrial processes
- Manufacturing licenses
- International codes and standards
- Multi-module facilities
- Risk informed and performance based licensing approaches
- PRA

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ANS President’s Committee

- ANS President -Tom Sanders endorses the Societies involvement in addressing generic issues for all small reactor types
- Established an ANS Presidents Special Committee.
- “Issue focused” with participation from ANS members with industry, NRC, NEI, DOE, academia, and laboratory perspectives .

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ANS Committee Charter

- Issue focused.
- Gas , water and liquid metal cooled technologies will be represented.
- Prepare consensus white papers for prioritized generic issues from 3 groups:
 - A- Licensing Framework.
 - B- Licensing application.
 - C- Licensing design and manufacturing.

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Issue List

- Group A- Licensing Framework
 - Applications of LWR regulation to SMR's
 - Staffing
 - NRC Fees
 - Price Anderson
- Group B -Licensing application
 - Risk informed regulation
 - Physical security
 - Emergency Planning
- Group C- Licensing design and manufacturing
 - Manufacturing licenses
 - Multi module facilities

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Process

- Participants have prioritized and self selected issues, formed working groups and are drafting white papers.
- Each reactor coolant type is represented in generic issue working groups.

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ANS Committee Charter

- Work on high priority generic issue white papers and report status at June 2010 ANS meeting:
 - Work completed.
 - Open issues.
 - Steps needed to complete.
- Completed white papers are for industry use.

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Schedule

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|-------------------------|--------------|
| • Kick Off | January |
| • Draft papers | End of March |
| • Committee review | April |
| • Brief Tom Sanders | Early June |
| • ANS Summer meeting | Mid June |
| • Complete white papers | As scheduled |

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Summary

- ANS Special committee presents a unique opportunity to bring together individuals from all sectors to develop informed options for dealing with the generic SMR issues

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ANS Committee for Generic SMR licensing issues

Thank You

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