



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

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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.



# 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



# 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 .



# 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.



# 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



# 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.



# 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.





# Schedule

- 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



# 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



# **ANS Committee for Generic SMR licensing issues**

Thank You