

NRC Public Meeting with DOE

Non-Light Water Reactor Design Criteria and Non- Light Water Reactor Preparation Activities



Meeting Agenda

- Opening Remarks
- NRC status – Diane Jackson
- DOE status – Craig Welling
- Public comments
- Closure

NRC Non-Light Water Reactor Design Criteria and status of Non-Light Water Reactor Preparation Activities

Diane Jackson, Chief
Advanced Reactors (non-LWR) and Policy Branch
Office of New Reactors

May 17, 2016

Overview

- Advanced Reactor Design Criteria and Considerations
- NRC Non-LWR Vision and Strategy
- NRC Non-LWR Key Regulatory Activities
- NRC SMR and Non-LWR Policy Issues
- NRC Non-LWR Outreach/ Communication Activities

DOE-NRC Joint Initiative to Develop Design Criteria for Advanced Reactors

- NRC team has reviewed the DOE report, “Guidance for Developing Principal Design Criteria for Advanced (Non-Light Water) Reactors”
- NRC team has developed the NRC version of:
 - Advanced Reactor Design Criteria,
 - Sodium-Cooled Fast Reactor Design Criteria, and
 - modular High Temperature Gas –Cooled Reactor Design Criteria
- The NRC version of the Non-LWR Design Criteria was sent out for 60 day informal comment on April 7, 2016

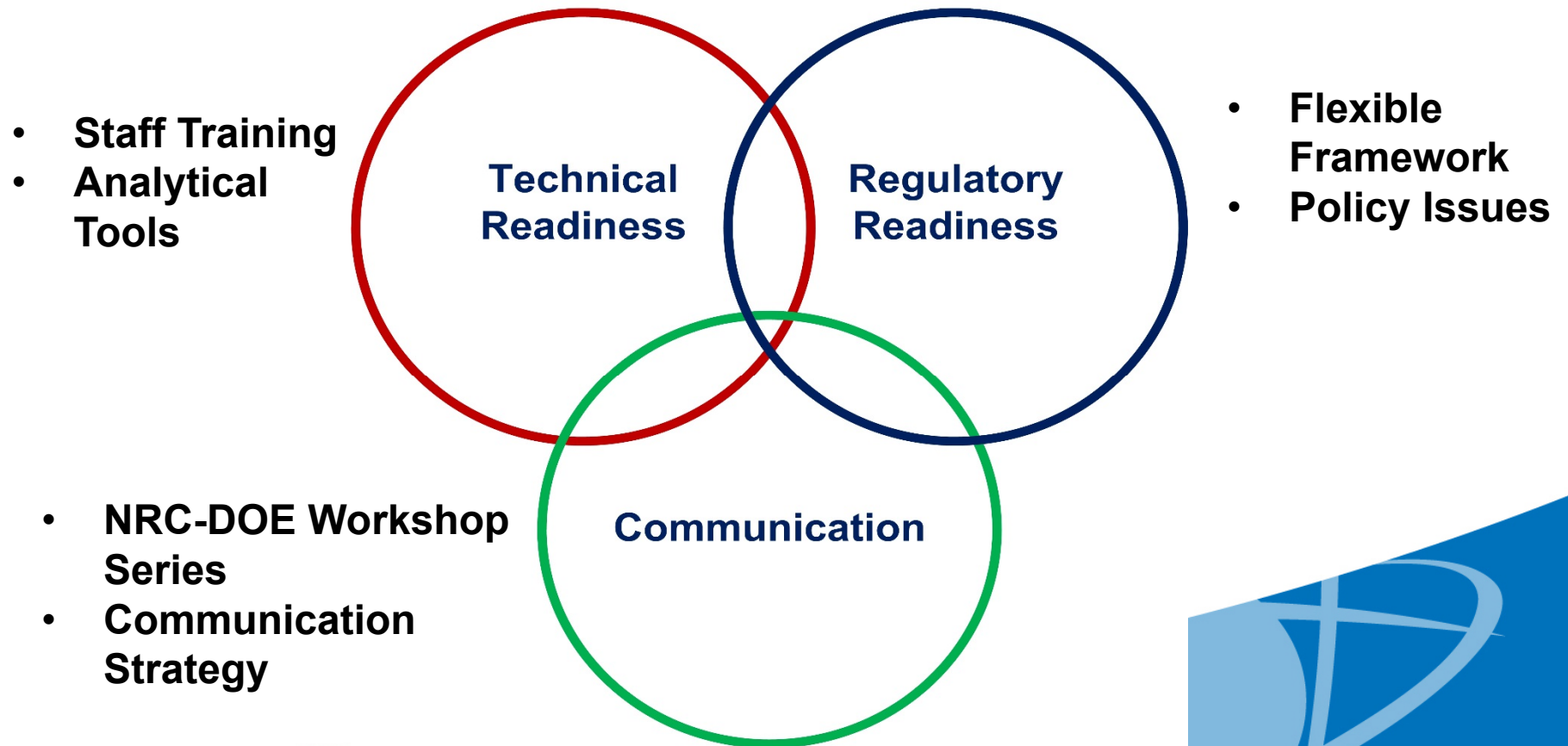
Further Engagement Expected on Key Issues in Design Criteria for Advanced Reactors

- Non-LWR Design Criteria
- Security Design Considerations
- mHTGR-DC 16 “Containment Design”
- mHTGR-DC 10 “Reactor Design”
- ARDC 17 “Electric Power Systems”
- ARDC 35 “Emergency Core Cooling”

Future Activities for Design Criteria for Advanced Reactors

- NRC issued its version of the Design Criteria – safety
 - Informal 60-day comment period until June 8, 2016
- NRC to issue the Design Considerations – Security
 - Informal 45-day comment period
- Comments will be considered in development of a draft Regulatory Guide
- Public meeting(s) during the summer / fall 2016
- Formal public comment period for draft Regulatory Guide
- Final Regulatory Guide issuance planned for 2017

NRC Vision and Strategy: Achieving Non-Light Water Reactor Mission Readiness



NRC Non-LWR Key Regulatory Activities

- Defining a conceptual design review process
 - to provide early feedback on potential technical risks to designers
- Developing a staged regulatory review process
- Guidance on use of prototype reactor
- Public meetings expected for your feedback

Utilizing current regulations to meet projected timeframes and needs for reviews of innovative designs

NRC SMR and Non-LWR Policy Issues

- NRC is currently working to resolve:
 - Rulemaking on Emergency Preparedness for Small Modular Reactors and Other New Technologies (SECY-15-0077)
 - Variable Annual Fees Rule for SMRs (SECY-15-0044)

Expanding regulations as needed, to address unique issues
for non-LWRs and SMRs

NRC Non-LWR Outreach / Communication Activities

- Second DOE-NRC Advanced non-LWR Workshop series on June 7-8, 2016
 - Registration is OPEN and free
 - Focus on:
 - NRC and DOE vision and strategy documents
 - Fuels: development, fabrication, and qualification
- Conference/ Meeting Participation
- International Participation
- Support to DOE's GAIN initiative
 - Provide information on regulatory process

Final Comments

- Looking forward to...
 - Upcoming advanced non-LWR workshop on June 7-8, 2016
 - Further interactions on all issues
- Request:
 - Subscribe to govdelivery.com via the NRC public website “Public Meetings and Involvement” tab
 - Your feedback on usefulness of similar routine public meetings?