



Transformation at the Nuclear Regulatory Commission

Commission Meeting
October 29, 2018





**Deputy Executive Director for
Materials, Waste, Research, State, Tribal,
Compliance, Administration and
Human Capital Programs**

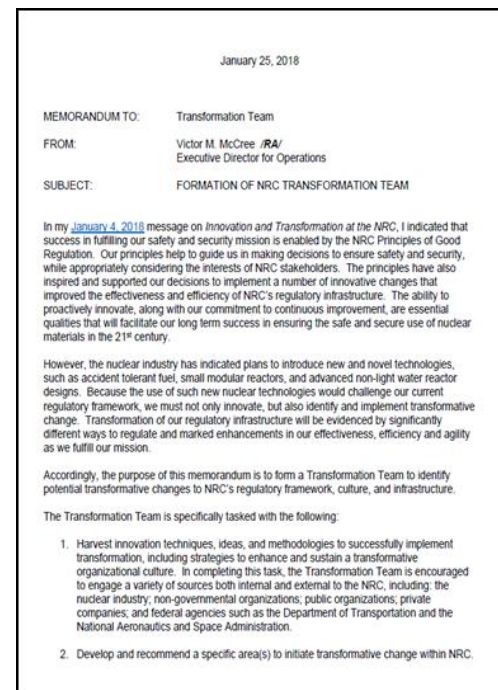
Daniel Dorman

NRC Panel will Address the Following Topics

- Overview of Transformation Initiatives and Next Steps
- Stakeholder Feedback and Recommendations

Proactive Efforts to Transform our Regulatory Framework

- Self-initiated effort to identify proposed changes to our framework, culture, and infrastructure
- Narrow focus on enabling safe and secure use of technologies
- Engagement of a broad range of stakeholders
- 90 day effort focused on specific areas



Modern Risk Informed Regulation Cannot Wait



- Our strong regulatory framework has served us well; the NRC mission will remain unchanged
- We need to integrate our strong safety culture, organization, and principles into a culture that embraces change
- There is a strong sense of urgency and energy that modern risk informed regulation can't wait
- The key transformational change is cultural

Ongoing Actions and Next Steps

Communication of the Staff's Recommendations

- Implemented communication plan

Initial Actions:

1. Referred some ideas to:
 - Specific Offices
 - Innovation Forum
2. Developed a change management plan

Leveraging Ongoing Agency Efforts

- Leadership model
- Innovation Forum

Future Actions Implementation Plan



Division of Decommissioning, Uranium Recovery, and Waste Programs

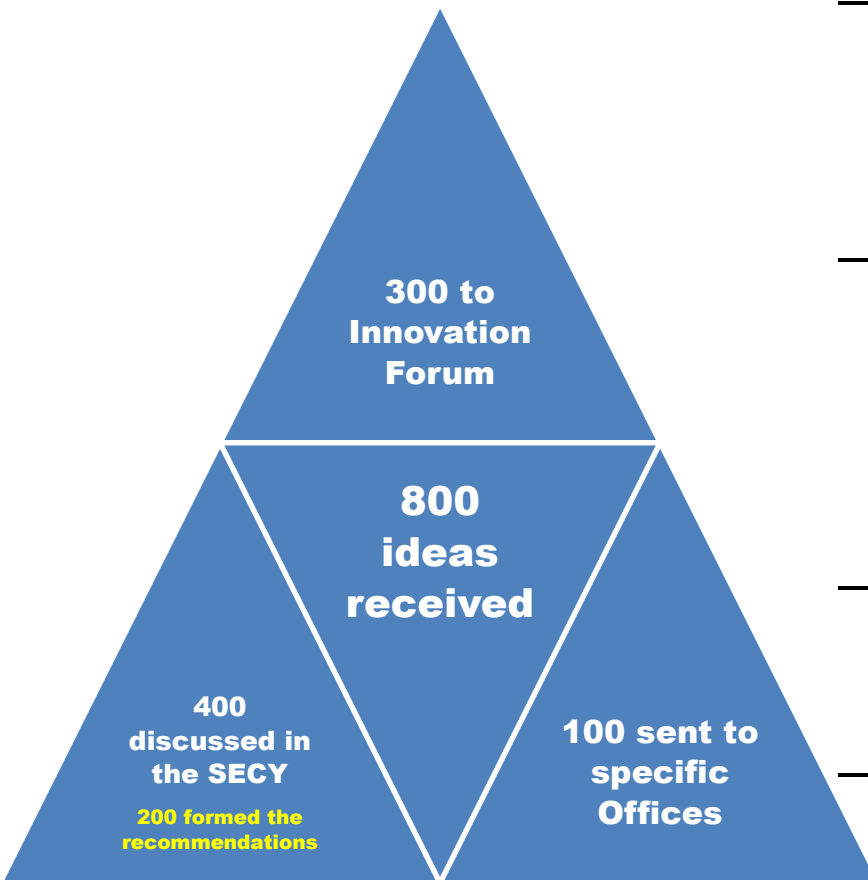
Andrea Kock, Deputy Director

Building on Previous Success through Extensive Interaction with a Broad Range of Stakeholders

- Built on previous successes
- Solicited ideas from stakeholders
- Interacted with internal and external stakeholders



Stakeholder Input Shaped Common Themes and Recommendations



- Need for systematic and expanded use of risk and safety insights in decision-making
- Need for decision making that is not bound by current processes and focusses on timeliness as well as safety
- Need for more performance based regulations
- Need to permit licensees to make more changes to their facilities without NRC approval, while maintaining safety

The Staff's Recommendations to Achieve Modern Risk Informed Regulation

- Develop an agency-wide process, organizational tools, and endorsement to expand the systematic use of qualitative and quantitative risk and safety insights in licensing to scale the level of reviews needed to make findings of adequate protection
- Revise 10 CFR 50.59 and other similar change processes to allow additional flexibility for licensees to make changes without prior NRC approval
- Initiate an optional performance-based, technology-inclusive regulation for non-light water reactors
- Initiate rulemaking to define performance-based, technology-inclusive criteria for the licensing of I&C systems and leverage additional development standards for digital systems

Acronyms

- Code of Federal Regulations (CFR)
- Instrumentation and Control (I&C)
- Nuclear Regulatory Commission (NRC)
- Regulatory Information Conference (RIC)
- Office of the Secretary (SECY)