



Transformation at the NRC

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"The world as we have created it is a process of our thinking. It cannot be changed without changing our thinking."
— Albert Einstein

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Why Transform?






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Why Transform at the NRC?



"The nuclear industry has indicated plans to introduce new and novel technologies... Because the use of such new nuclear technologies would challenge our current regulatory framework, we must not only innovate, but also identify and implement transformative change."

--- Victor McCree, Executive Director for Operations
1/25/18 – Formation of Transformation Team

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What is Transformation?



- Continuing to ensure safety and security of the operation of civilian nuclear applications
- Significantly different ways to regulate
- Further enhancements in our effectiveness, efficiency, and agility



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What the Transformation Initiative is Not



- An alteration of NRC's mission to ensure adequate protection
- Innovation - Incremental changes or better ways of doing what we are currently doing
- A short-lived effort



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What is the Tasking?



- Harvest transformation ideas and strategies from inside and outside the agency to successfully implement transformation and sustain a transformative organizational culture.
- Develop and recommend specific area(s) to initiate transformation within the NRC.
- Develop a strategy and communications plan(s) for the specific area(s) recommended to foster transformation in NRC's culture.
- Develop a Commission paper that describes the merits of transformation, with recommended approaches and estimated schedules/resources.

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Timeline



January

- Transformation Team Stood Up

February
March

- Outreach to Internal and External Stakeholders
- Develop Commission Paper
- RIC Session

April

- Complete Commission Paper

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Specific Areas for Consideration



- Digital instrumentation and controls
- Advanced fuel technology
- Advanced reactor applications
- New and emerging materials and manufacturing methods
- Big data

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Outreach



- Internal to the NRC
- External
 - Industry
 - Non government organizations
 - Government agencies
 - Innovative Companies

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Themes



- Systematic Expansion of Risk-Informed Licensing
 - Incentives for safety improvements
 - Systems/integrated approach to risk
 - Application of operating experience
 - Leveraging existing reviews
- Additional flexibility for licensees to make facility changes
- Timely resolutions to challenges associated with new technology
- Performance based reviews and incremental/early approvals
 - Digital Instrumentation and Controls
 - Transition to Accident Tolerant Fuels
 - Advanced Reactor Licensing
- Culture
 - Advance Innovation Forums as Agency Process
 - Leadership Model for Vision and Communication
 - Staff rotations to organizations doing transformative work
 - Incentives for advancing new ideas
 - Organizational focus
 - Measurement of existing culture and trending of effectiveness

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We need your feedback



- What do you view as the most important area for transformation of NRC's regulatory framework for new and novel technology?
- How would you propose we revise/refocus our regulatory framework to improve in this area?
- What obstacles would need to be overcome?
- What would be the benefits?

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How can you provide ideas



- Step up to the microphones
- Fill out a card
- Submit ideas to Transformation.Resource@nrc.gov
by Thursday, March 15, 2018

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Thank You for your feedback!

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