



Engineering Inspection Review Revision 1 (9/29/17)

Charter Tasks

- Identify opportunities to increase effectiveness and efficiency of engineering inspections**
 - Document bases for performing independent engineering inspections**
 - Assess current program for gaps and overlap**
 - Determine if there are more efficient and effective ways to accomplish**
 - Make recommendations**
- Collaboration with Stakeholders**
- Recommendations to EDO / Commission**



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Principal Considerations

- Ensure that NRC independent oversight is appropriate (transformational approach, what to inspect, how often, depth, agility of samples)**
- Emphasize inspection focus on current performance and introduction of latent issues**



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What the team has completed so far

- **Why the NRC conducts independent engineering inspections**
- **What activities licensees perform that could result in the introduction of latent conditions**
- **What inspections we currently perform**



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What the team has completed so far

- **What inspections could be performed to improve the effectiveness of our oversight**
- **What immediate efficiencies can be implemented to achieve NRC independent oversight objectives**



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Working Group Observations (Current Inspection Program)

- **Why? – Latent conditions...**
- **Many engineering activities that could introduce latent conditions**
- **Independent NRC oversight of a wide range of engineering activities**



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Working Group Observations (Current Inspection Program)

- **Some current inspection procedures need not be standalone (goals can be achieved through sample selection)**
- **Current sample selection can contribute to perceptions of re-inspection (there exists opportunity for improved agility)**
- **Existing program does not give credit to licensee's who conduct thorough self-assessments**



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Current Working Group Alignment

- Heat sink engineering inspection (focused sample)
- In-service inspection (focus improvements)
- Boric acid inspection (sample)
- Improve engineering inspection agility
- 10 CFR 50.59 inspection (incorporate)
- Improve fire protection inspection agility



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Important Decision Points

- Inspection Cycle (i.e., Quadrennial vs. Triennial)**
- Fire Protection Inspection**
- Comprehensive Engineering Inspection**
- Credit for Industry Self-Assessment**
- Other possibilities (indicators, etc.)**



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Key Considerations for Self Assessments

Safety: Shall maintain Principles of Good Regulation for implementation of self assessments

- Independence**
 - Team composition?
 - NRC oversight?
- Openness**
 - Written report availability?
- Effectiveness**
 - Quality control?
 - Action Matrix?
- Clarity and Reliability**
 - Industry standard?
 - NRC Policy?



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Near Term Steps

- Stakeholder input on option proposals was due on September 29, 2017. Do we need an extension?**
- What is the path forward on self-assessment?**



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Longer term steps

- Working group collates both NRC and external stakeholder input, develops pros and cons discussion points, develops public meeting slides for public meeting in late-November 2017**
- Public Meeting late-November to present stakeholder views, pros and cons, and seek feedback**



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Finalizing the project

- Working group documents feedback from late-November public meeting, develops public meeting slides on options to be presented to the Commission for public meeting in early-January 2018**
- Commission paper developed by March 1, 2018**