

NRG Advanced Reactor Regulatory Activities



Mr. Ho NIEH

United States Nuclear Regulatory Commission

Japan Atomic Energy Agency

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The NRC is strategically transforming and modernizing to prepare for safe deployment of

ADVANCED REACTORS

Stakeholder
Engagement



Transforming
Our Workforce



Strategic
Policymaking



Modernizing
Our Tools



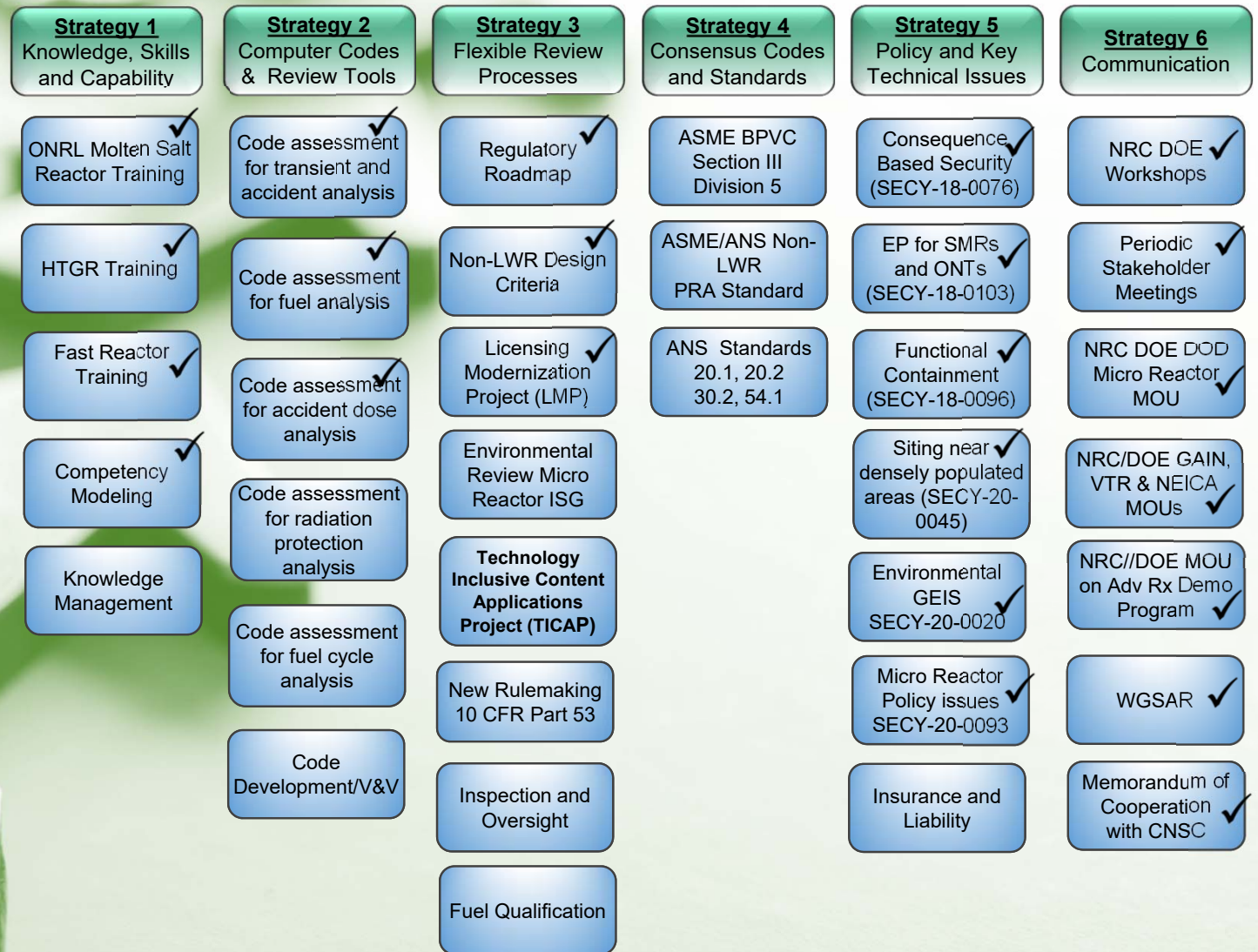
Supporting
Innovation



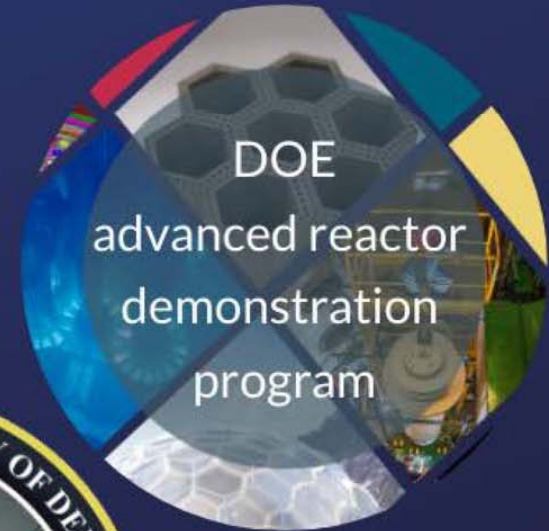
Flexible
Review Strategies



**NRC's
implementation
action plans
are ensuring
readiness in
important
strategic areas**



NRC is focusing on several priorities





Pathway to a new regulatory framework

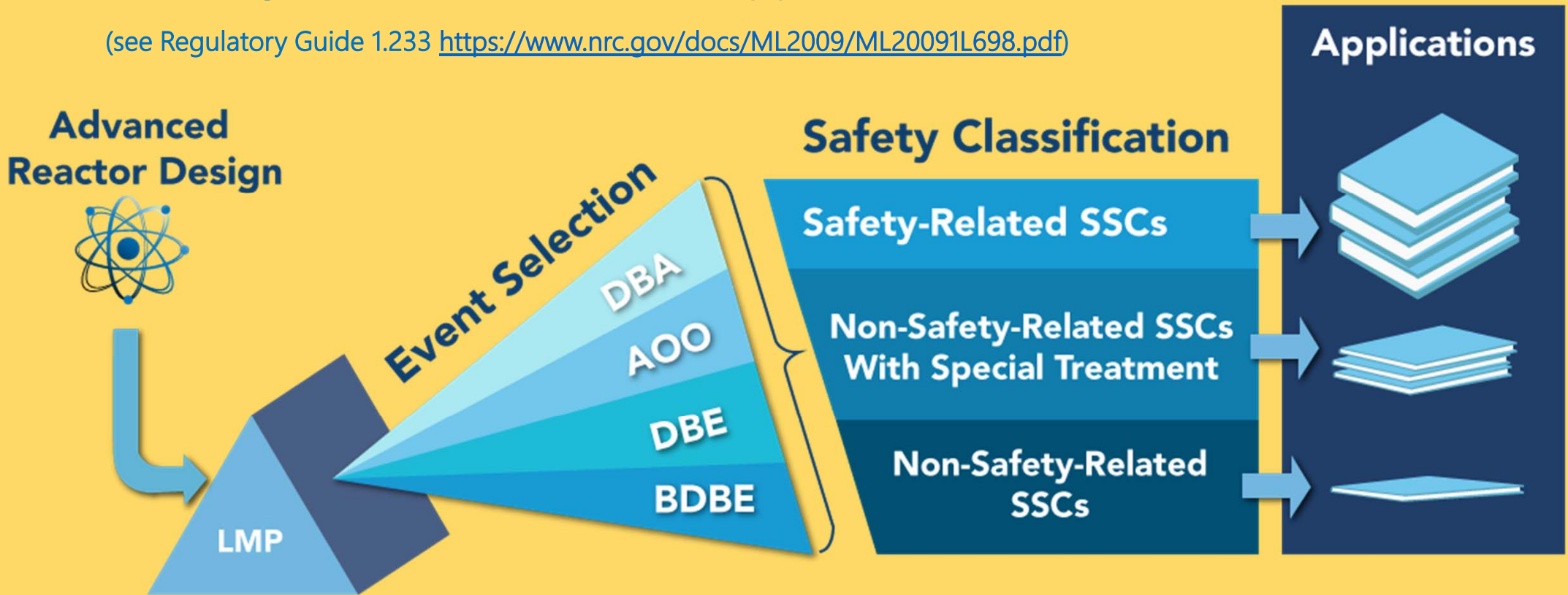
“Part 53” Rulemaking by October 2024

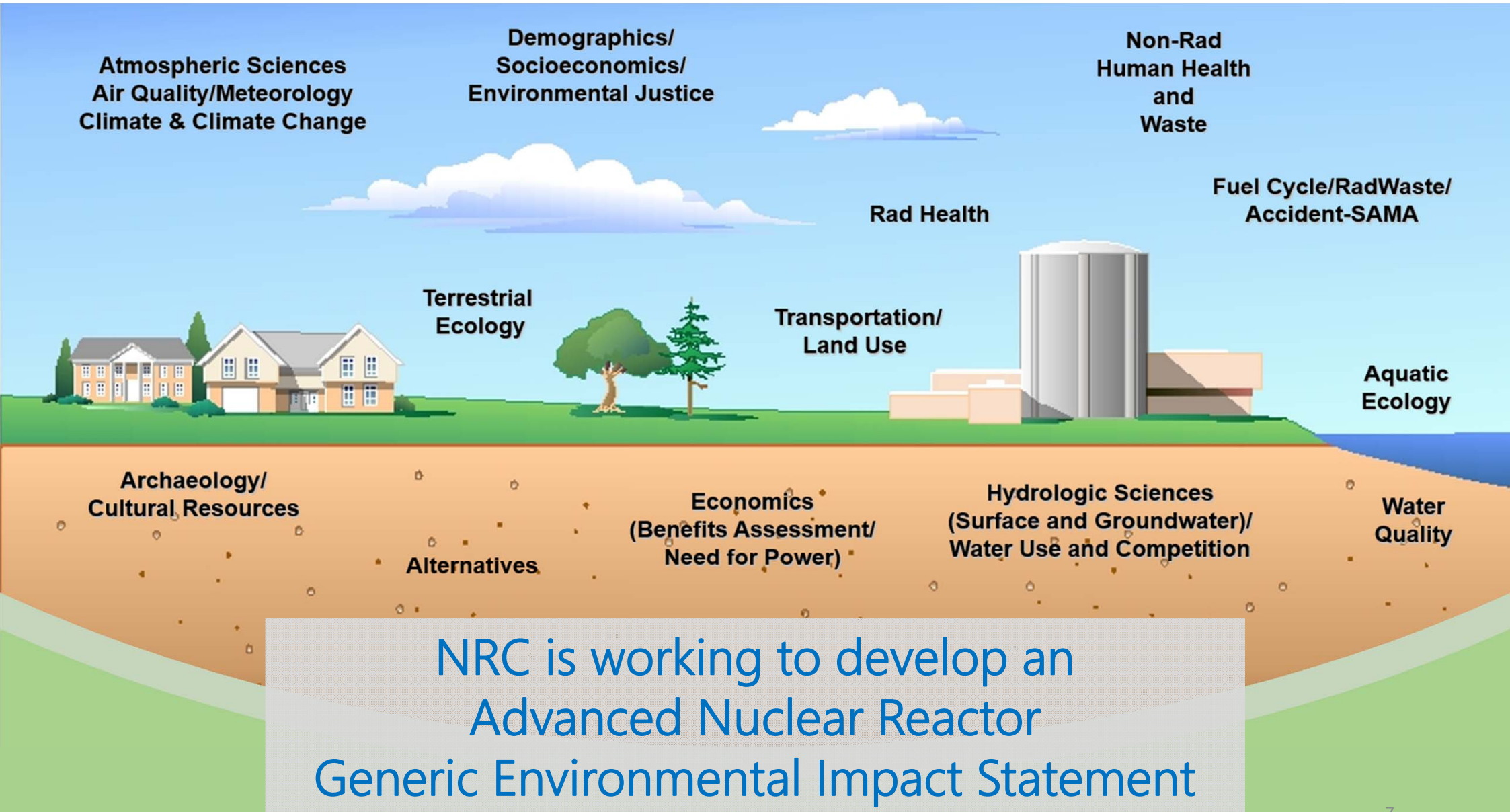
- NEIMA requirement
- Technology-inclusive, risk-informed and performance based regulatory framework
- Commission direction SRM-SECY-20-0032
- Builds on current activities including the Licensing Modernization Project
- Significant stakeholder engagement planned

Licensing Modernization Project:

A risk-informed, consequence-oriented approach to establish licensing basis and content of applications

(see Regulatory Guide 1.233 <https://www.nrc.gov/docs/ML2009/ML20091L698.pdf>)





Leveraging knowledge and research from domestic and international partners



Links to NRC background documents

- NRC advanced reactor strategy and action plans:
<https://www.nrc.gov/reactors/new-reactors/advanced.html#visStrat>
- Licensing modernization project policy paper:
<https://www.nrc.gov/docs/ML1831/ML18311A264.html>
- Licensing modernization project Commission direction:
<https://www.nrc.gov/docs/ML2014/ML20147A504.pdf>
- Part 53 rulemaking plan:
<https://www.nrc.gov/docs/ML1934/ML19340A056.pdf>
- Part 53 rulemaking plan Commission direction:
<https://www.nrc.gov/docs/ML2027/ML20276A293.pdf>
- Advanced reactor generic environmental impact statement policy paper:
<https://www.nrc.gov/docs/ML2005/ML20052D175.pdf>
- Advanced reactor generic environmental impact statement Commission direction:
<https://www.nrc.gov/docs/ML2026/ML20265A112.pdf>



Thank you for your attention.
Looking forward to further discussion.

