

### Nuclear Innovation Alliance Perspective on Part 53

8 February 2021 NRC NGO Public Meeting on Part 53

Dr. Patrick White

pwhite@nuclearinnovationalliance.org



## A key focus of NIA is helping modernize NRC licensing to enable advanced nuclear energy as a climate solution

- Nuclear Innovation Alliance (NIA) is a leading think-and-do tank focused on achieving the conditions for success for advanced reactors so they can be part of the climate solution.
- Deeply engaged with the advanced reactor community as well as the broader energy and climate community.
- NIA's core strengths:

Analysis

Advocacy

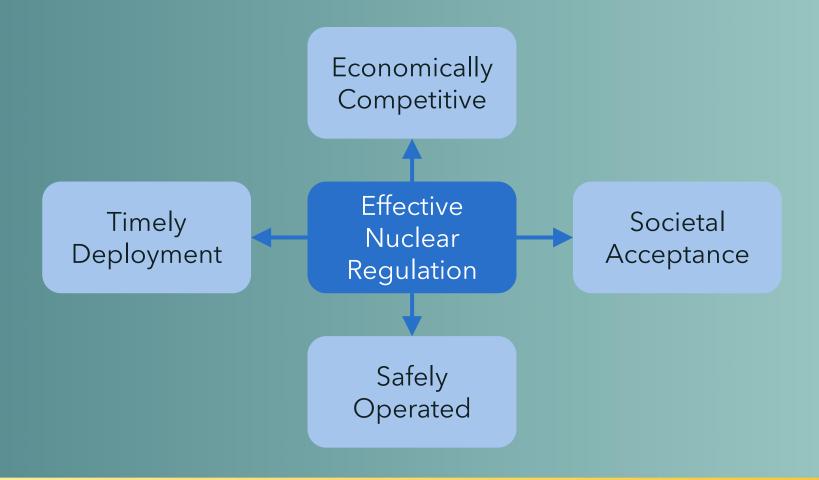
Stakeholder collaboration

Independent, non-partisan

Strong track record

Thought leadership

### Developing modern and effective regulation in Part 53 is critical to advanced nuclear energy



## Part 53 could enable both evolutionary and innovative approaches to regulation



Westinghouse AP1000

1120 MWe Water Cooled

**Evolutionary Regulation** 

#### Regulatory paradigms

- Regulatory requirements
- Analysis methods
- Regulatory assumptions
- Reactor design criteria
- Risk assessments
- Organizational programs
- Operational requirements
- Equipment qualification
- Reactor siting



Westinghouse eVinci

1 MWe Heat Pipe Cooled

Innovative Regulation?

# Part 53 framework can be reimagined to facilitate both evolutionary and innovation regulations

Clear Regulatory Purpose Statement

**Uniform Performance Requirements** 

Self-Consistent Project-Specific Performance Requirements

**Project Safety Case Basis** 

Optional Prescriptive Methods

Regulatory rule contents

Applicationspecific regulatory decisions

General regulatory guidance and approvals

Supporting materials

## Continued communication and engagement with stakeholders is critical to Part 53 rulemaking

Technical feedback on stakeholder comments

Stakeholders are heard and can focus engagement on technical topics

Insights regarding staff positions on open policy topics

Stakeholders can more effectively engage with staff to inform policymaking Proactive NGO engagement on technical issues

NGO stakeholders have clear pathway for continued involvement Clear expectations on Part 53 draft text revision process

Stakeholders can more effectively utilize resources and engagement time

## NIA seeks to continue to provide technical feedback and facilitate stakeholder engagement on Part 53

- NIA joint public comments on Part 53 with Breakthrough Institute, Good Energy Collective, ClearPath, and Third Way: ML21207A223
- NIA detailed public comments on Part 53: ML21321A284
- NIA Commission Briefing on Part 53: ML21337A139

