

NMSS Storage and Transportation Efficiency Idea under consideration

May 20, 2025

Shana Helton
Director, Division of Fuel Management

Meeting Logistics

- Information public meeting with designated question and answer sessions
 - Meeting notice dated April 15 , 2025 ([ML25107A283](#))
 - Meeting materials are available at ([ML25134A057](#))
- Teams Webinar Operation
 - Virtual attendees' must disable/mute their devices mics when not speaking
 - During the Q&A sessions, use Teams' "raise hand" feature, before speaking
 - In-person attendees must disable/mute their laptop mics & speakers

Agenda

1. Introductions
 2. Opening remarks
 - NMSS
 - ADVANCE Act Team
 - NEI
 - DPC
 3. M-LEAP overview
 4. NRC Staff presentation
 5. NEI presentation
 6. Decommissioning Plant Coalition presentation
- Break
7. Open Discussion
 8. Closing remarks & adjourn

Shana Helton

Director, Division of Fuel Management

Materials Licensing Efficiencies and Processes (M-LEAP) Overview

M-LEAP adopts ADVANCE Act section 505, and seeks to make materials licensing more efficient, predictable, and timely .

M-LEAP team evaluated:

- (i) efficiencies that have already been identified or that are currently being implemented,
- (ii) past lessons learned, and
- (iii) stakeholder feedback

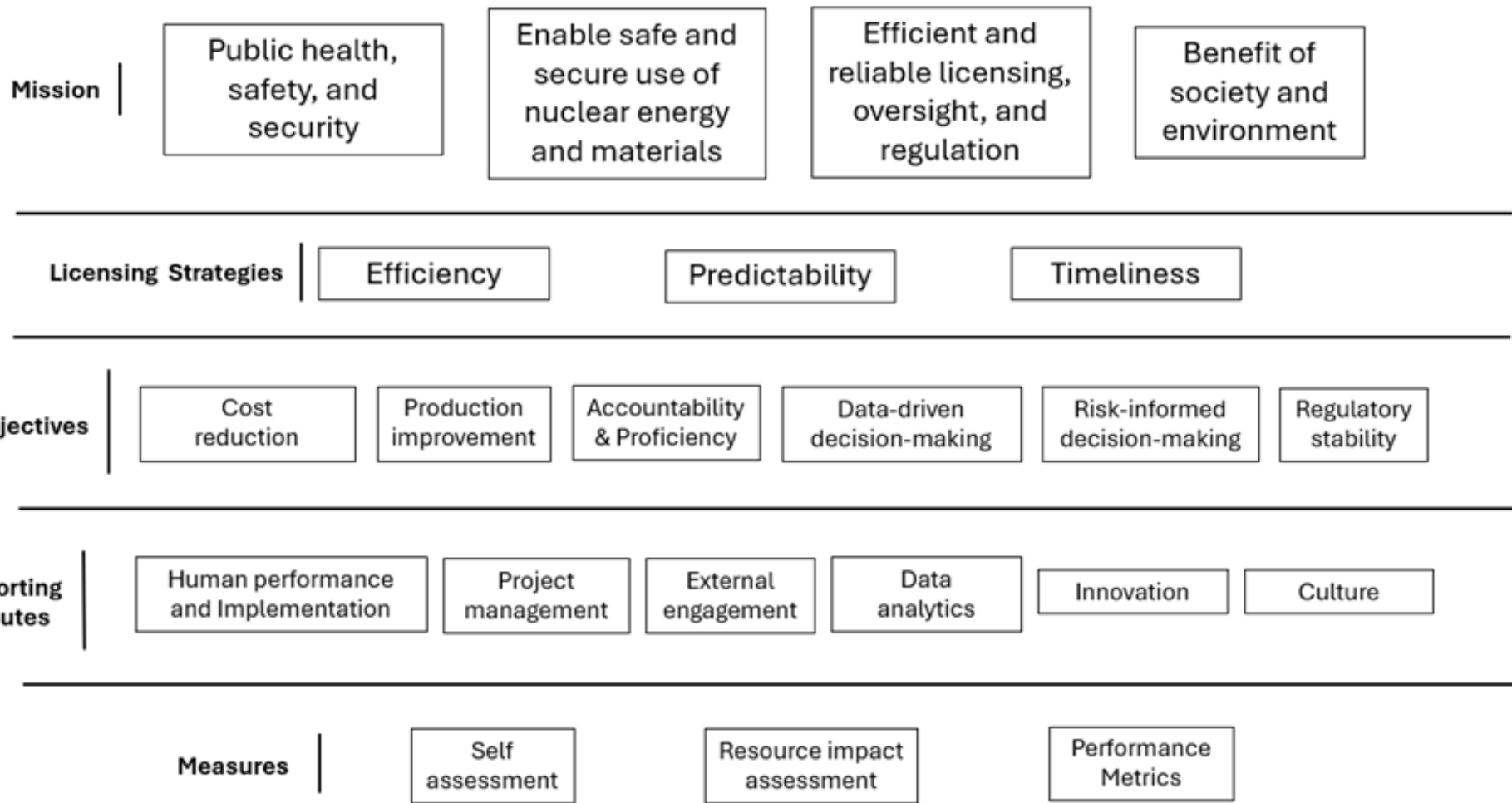
Decommissioning & Low-Level Waste Business Line

Fuel Facilities Business Line

Nuclear Material Users Business Line

*** Spent Fuel Storage and Transportation Business Line*

Licensing Efficiency, Predictability, and Timeliness (LEPT) Framework



M-LEAP Structured approached across BLs

Implementation Status

Approval Status

Prioritization Factors: Efficient, Timely, Predictable, FTE/\$ reduction, Schedule reduction, knowledge management, process reliability/consistency, stakeholder confidence

Implementation Impacts/Costs: FTE/\$ cost, implementation timeframe, workload impacts, reputational risks

Relative Return on Investment Score

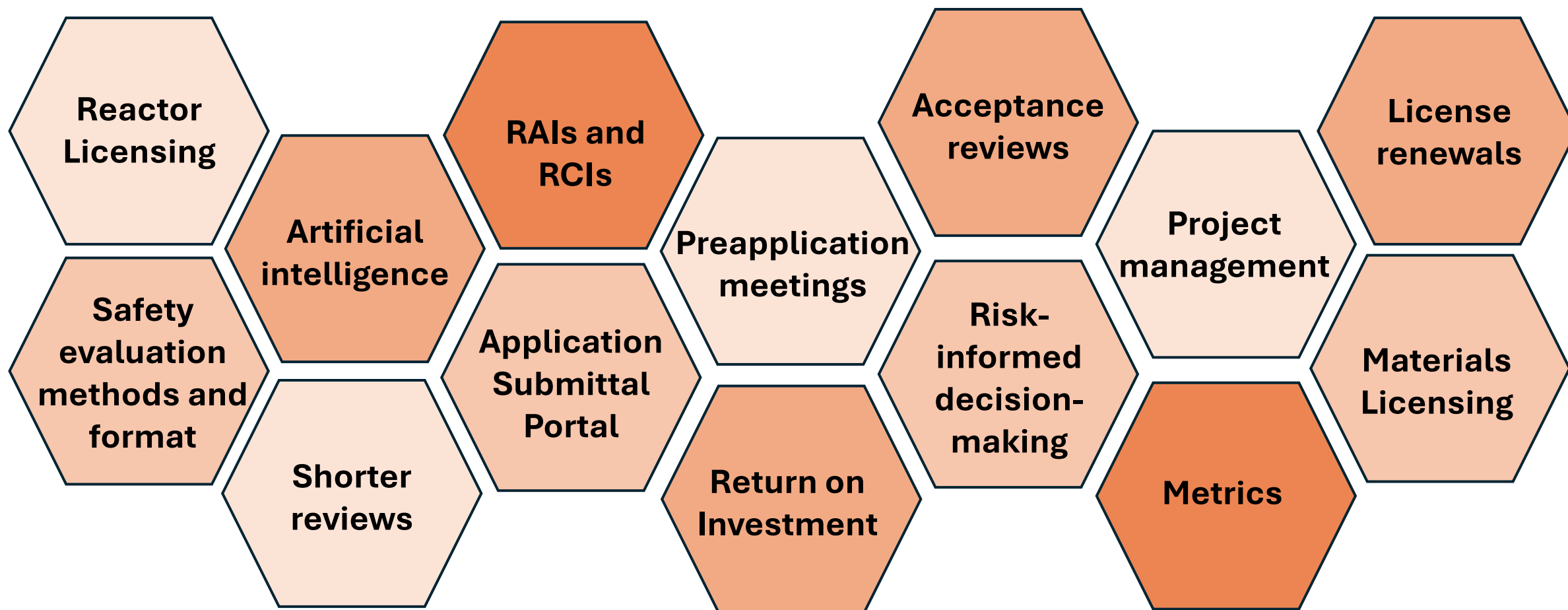
Efficiency Topic, Description

Measurable Metrics

Unique Tracking ID

ID	Efficiency Topic, Description	Approval Status	Implementation Status	Relative Return on Investment Score	Implementation Impacts/Costs	Prioritization Factors	External Engagement Needs														Internal Engagement Needs														Implementation Factor 1														Implementation Factor 2														Implementation Factor 3														Implementation Factor 4														Implementation Factor 5													
							Stakeholder	Topic	Priority	Frequency	Mode	Channel	Start	End	Lead	Resources	Cost	Risk	Impact	Frequency	Mode	Channel	Start	End	Lead	Resources	Cost	Risk	Impact	Frequency	Mode	Channel	Start	End	Lead	Resources	Cost	Risk	Impact	Frequency	Mode	Channel	Start	End	Lead	Resources	Cost	Risk	Impact	Frequency	Mode	Channel	Start	End	Lead	Resources	Cost	Risk	Impact																																													
10	Storage and Transportation Efficiency	Proposed	Approved	High	Low	Efficient, Timely, Predictable	Stakeholder: Public	Topic: Safety	Priority: High	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: J. Smith	Resources: 5 FTE	Cost: \$100K	Risk: Low	Impact: High	Frequency: Quarterly	Mode: Meetings	Channel: Internal Email	Start: 2023-01-01	End: 2023-12-31	Lead: M. Jones	Resources: 3 FTE	Cost: \$50K	Risk: Low	Impact: Medium	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: K. Lee	Resources: 4 FTE	Cost: \$80K	Risk: Low	Impact: High	Frequency: Quarterly	Mode: Meetings	Channel: Internal Email	Start: 2023-01-01	End: 2023-12-31	Lead: N. Patel	Resources: 3 FTE	Cost: \$50K	Risk: Low	Impact: Medium	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: O. Quinn	Resources: 4 FTE	Cost: \$80K	Risk: Low	Impact: High																																													
11	Risk withholding for 7810...	Proposed	Approved	Medium	Low	Efficient, Timely, Predictable	Stakeholder: Public	Topic: Safety	Priority: Medium	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: J. Smith	Resources: 5 FTE	Cost: \$100K	Risk: Low	Impact: High	Frequency: Quarterly	Mode: Meetings	Channel: Internal Email	Start: 2023-01-01	End: 2023-12-31	Lead: M. Jones	Resources: 3 FTE	Cost: \$50K	Risk: Low	Impact: Medium	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: K. Lee	Resources: 4 FTE	Cost: \$80K	Risk: Low	Impact: High	Frequency: Quarterly	Mode: Meetings	Channel: Internal Email	Start: 2023-01-01	End: 2023-12-31	Lead: N. Patel	Resources: 3 FTE	Cost: \$50K	Risk: Low	Impact: Medium	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: O. Quinn	Resources: 4 FTE	Cost: \$80K	Risk: Low	Impact: High																																													
12	Streamlining storage CEC...	Proposed	Approved	High	Low	Efficient, Timely, Predictable	Stakeholder: Public	Topic: Safety	Priority: High	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: J. Smith	Resources: 5 FTE	Cost: \$100K	Risk: Low	Impact: High	Frequency: Quarterly	Mode: Meetings	Channel: Internal Email	Start: 2023-01-01	End: 2023-12-31	Lead: M. Jones	Resources: 3 FTE	Cost: \$50K	Risk: Low	Impact: Medium	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: K. Lee	Resources: 4 FTE	Cost: \$80K	Risk: Low	Impact: High	Frequency: Quarterly	Mode: Meetings	Channel: Internal Email	Start: 2023-01-01	End: 2023-12-31	Lead: N. Patel	Resources: 3 FTE	Cost: \$50K	Risk: Low	Impact: Medium	Frequency: Quarterly	Mode: Webinars	Channel: Public Website	Start: 2023-01-01	End: 2023-12-31	Lead: O. Quinn	Resources: 4 FTE	Cost: \$80K	Risk: Low	Impact: High																																													

Materials Licensing Efficiencies and Processes



Majority of Licensing Actions Approved with No RAIs

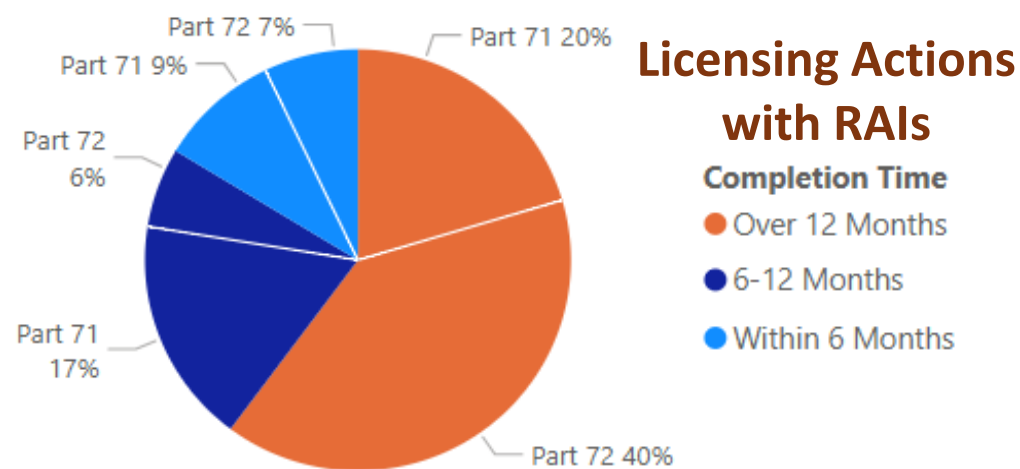
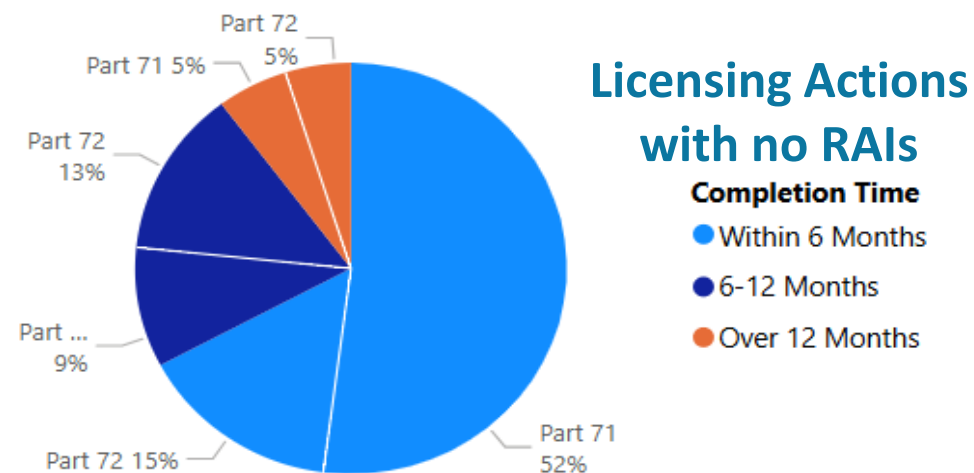
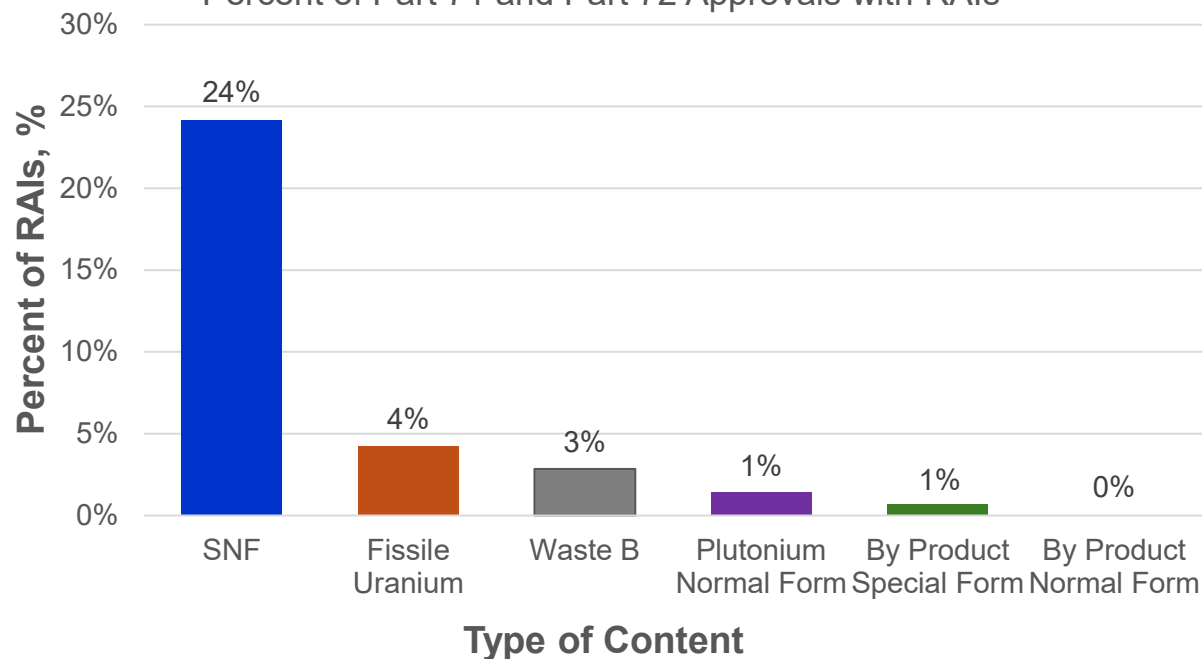
281 total approvals since January 2021

Part 71: 122 of 168 approvals with no RAIs

Part 72: 66 of 113 approvals with no RAIs

- 12 of 94 cases with RAIs involved follow-up

Percent of Part 71 and Part 72 Approvals with RAIs



Haimanot Yilma

*Project Manager, Division of Fuel Management,
Storage and Transportation Licensing Branch*

M-LEAP Approach

- Identification of Common Process Efficiencies, for example:
 - Pre-application engagement Process
 - Safety Evaluation
 - License Renewal Process
- Identification of Business Line Specific Efficiencies, for example:
 - 10 CFR Part 72, Certificate of Compliance rule-making process
- Engage stakeholders (i.e., staff, NEI, Industry, public, etc.)

Integrated Storage Rulemaking Schedule

Goal: Rulemaking process schedule reduction of up to 30% per review from typical schedule.

Purpose: To reduce the time required for development and signature of the rulemaking notices.

Baseline:

- 26 weeks to complete rulemaking.
- We complete up to 8 per year.

Actual Savings	Schedule
<ul style="list-style-type: none">• Schedule reduction of up to 30 % or 8 weeks per review• Availability of CoC to support licensee’s operation• Availability of staff resources to focus on other major licensing actions	Near-Term (CY2025Q2)

Process Improvements For Decommissioning Funding Plan (DFP) Reviews

Goal: DFP process resource reduction of up to 50%.

Purpose: To streamline the Decommissioning Funding Plan review process to achieve efficient, timely, and predictable reviews.

Baseline:

- 40 to 60 hours per review.

Potential Savings	Schedule
<ul style="list-style-type: none">• Resources reduction of ~50% or 20 to 30 hours per review.• Availability of staff resources to focus on other major licensing actions	Near-Term (CY2025Q2)

Collaborative Initial Review (Core Team Approach)

Goal: Continuously optimize licensing reviews.

Purpose: Operationalize the use of the Core Team approach for highly complex, new and unique designs, and urgent requests.

Baseline: limited Core team utilization.

Potential Savings	Schedule
<ul style="list-style-type: none">• Early alignment on technical issues and solution development• Sound regulatory decision in an efficient and timely manner• Consistency between reviewers• Organic knowledge management/transfer	Partially Implemented

Potential Future Actions

- License Renewal Terms in the Material Business Line
 - Evaluating the need to adjust term limits for Part 71
- Process improvements for licensing activities
 - Assess the acceptance review, RAI, SERs, and internal administrative processes etc. for optimization
 - Work across business lines to incorporate best practices/lessons learned promptly
 - Consider feedback received from staff and the industry

Next Steps

- Determine Return on Investment on efficiencies and prioritize near-term/mid-term/long-term implementation activities.
- Report to the OEDO on Licensing efficiencies due in July 2025.

Mark Richter

*Director, Used Fuel, Quality Management, and Advanced Manufacturing,
Nuclear Energy Institute*

NEI presentation on licensing efficiency

Michael S. Callahan

Governmental Strategies Inc. (on behalf of Decommissioning Plant Coalition)

DPC presentation on licensing efficiency

Break (15 min)

Discussion (1 hour)

- Please state your name and your organization before asking your question.
- Virtual attendees: Please use Teams' "raise hand" feature, and NRC staff will call you to ask your question.
- In-person attendees: raise your hands and we will call on you.



To submit your ideas please use the QR Code

Note that your comments are related to the NMSS Storage and Transportation licensing efficiency efforts

NRC's public information site for ADVANCE Act updates

Closing Remarks