

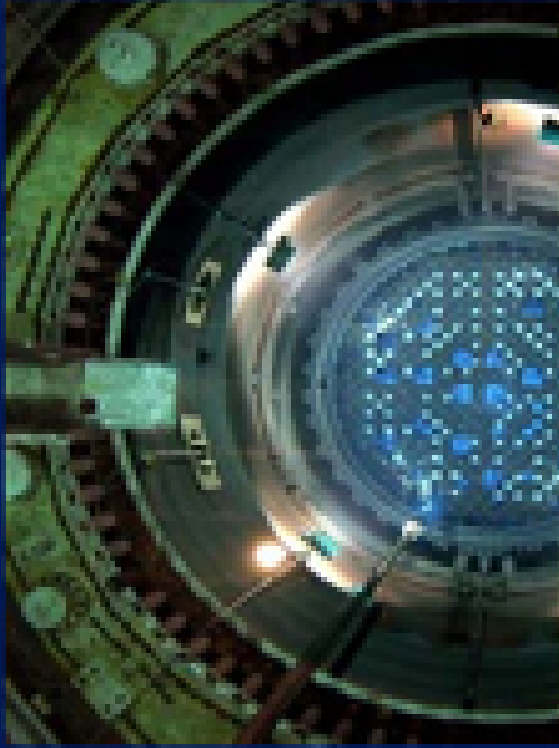


Limerick 2012 Performance Assessment Summary

- Exelon operated Limerick safely and in a manner that preserved the public health and safety and protected the environment
- Limerick remained in the Licensee Response column of the Action Matrix
- 6814 hours of inspection and related activities were conducted by NRC inspectors
- All Green Performance Indicators & 14 regulatory issues of Low Safety significance

Our Mission

- To license and regulate the nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, promote the common defense and security, and protect the environment





NRC Strategic Plan

Strategic Goals

- **Safety:** Ensure adequate protection of public health and safety and the environment.
- **Security:** Ensure adequate protection in the secure use and management of radioactive materials.

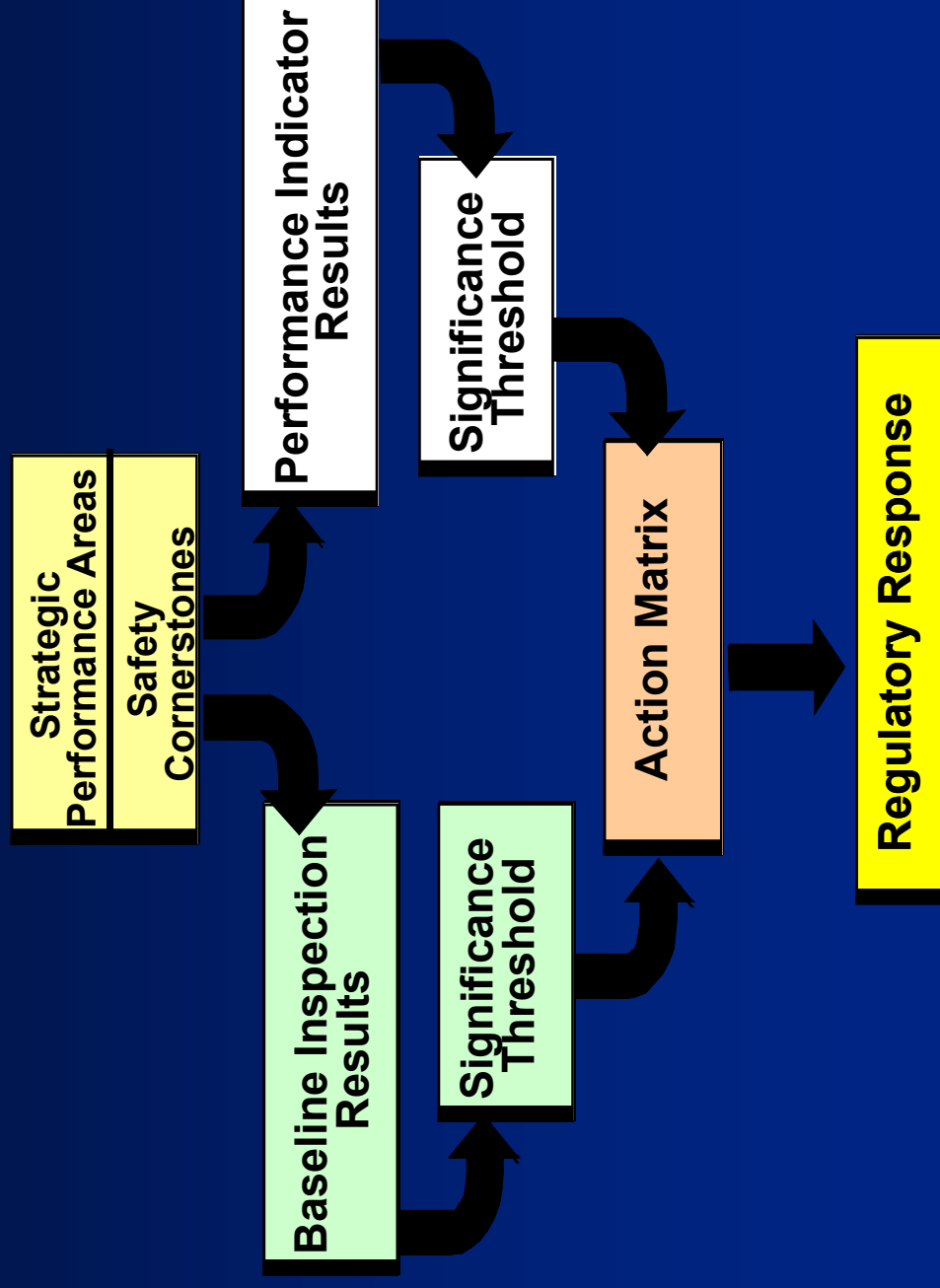


Strategic Objectives

- **Openness:** The NRC appropriately informs and involves stakeholders in the regulatory process.
- **Effectiveness:** NRC actions are high quality, efficient, timely, and realistic, to enable the safe and beneficial use of radioactive materials.
- **Operational Excellence:** NRC operations use effective business methods and solutions to achieve excellence in accomplishing the agency's mission.



Reactor Oversight Process





Action Matrix Concept

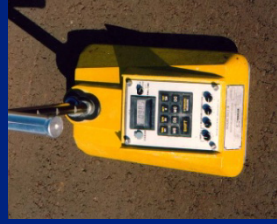
Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
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- Increasing Safety Significance
- Increasing NRC Inspection Efforts
- Increasing NRC/Licensee Management Involvement
- Increasing Regulatory Actions

Some Nuclear Facts

- More than 100 nuclear power plants supply about 20 percent of the electricity in the U.S.
- Nuclear materials are used in medicine for diagnosis and cancer treatment
- Nuclear materials are widely used in industry, such as in density gauges, flow measurement devices, radiography devices, and irradiators

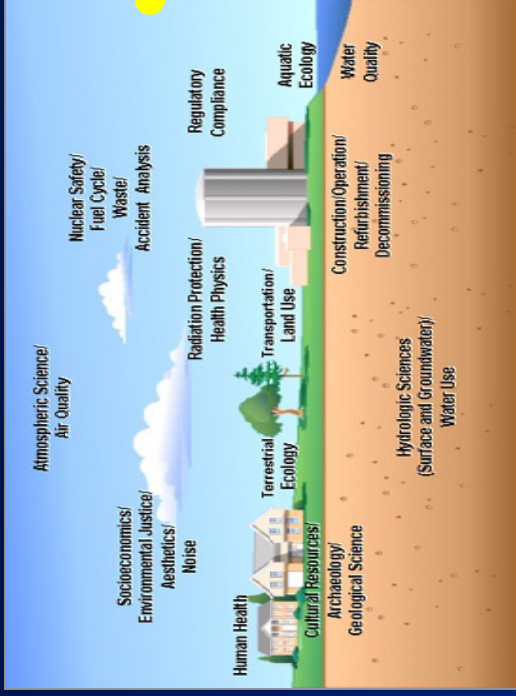




License Renewal

Safe and Secure Continued Operation

Environmental Review



10 CFR Part 51

Environmental Review

Environmental Impact Statement



Public Participation

Safety Review

10 CFR Part 54

Safety Review

Inspection Report
Safety Evaluation



Vessel Internal Inspections



Painting and Coatings



Susceptible System and Component Inspections

Aging Management Programs

Onsite Inspection

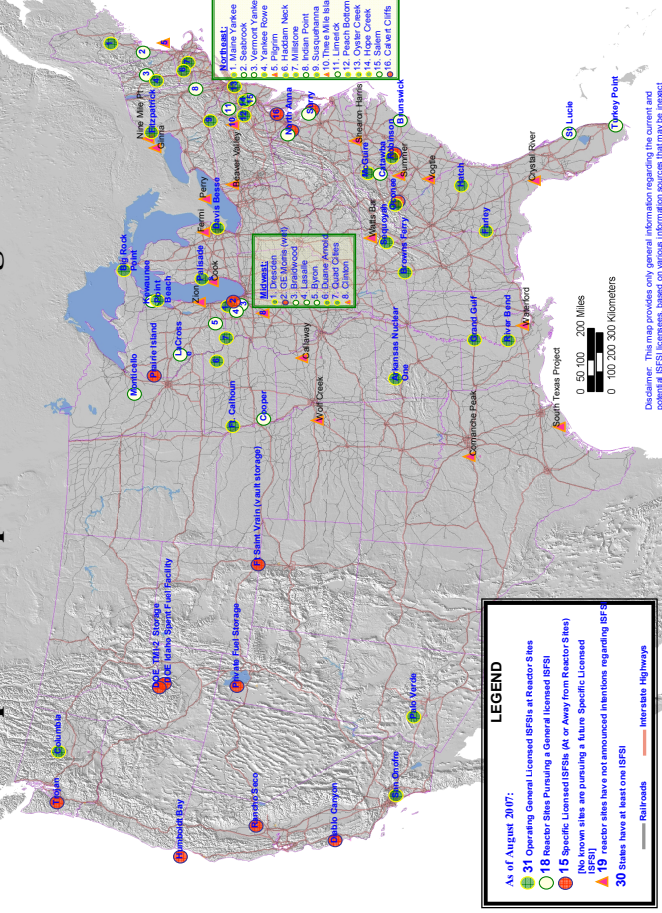
Spent Nuclear Fuel Safe and Secure **Storage** & **Transport**

Assured By

- Comprehensive Regulations
- Detailed NRC Review
- Robust Cask & Package Designs
- Significant Experience Base
- Continued Oversight

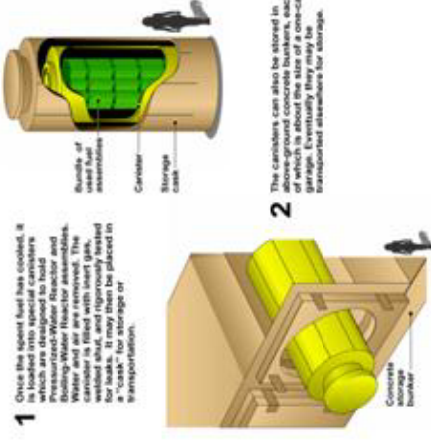


U.S. Independent Spent Fuel Storage Installations



Spent Fuel Dry Storage Single & Dual Purpose Cask

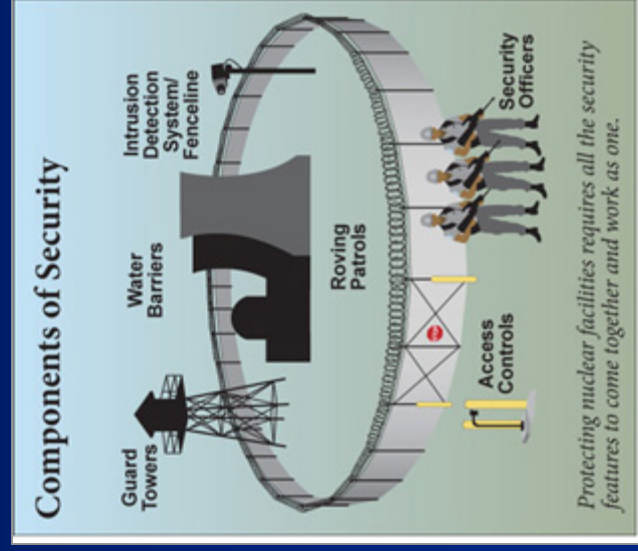
At some nuclear reactors across the country, spent fuel is kept on site, above ground, in systems basically similar to the ones shown here.



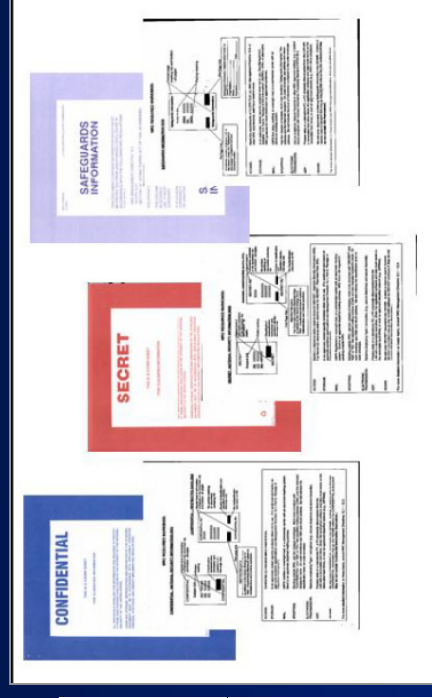


Physical Protection

- Security Inspections
- Force-on-Force Exercises
- Interagency Cooperation
- Intrusion Detection & Assessment
- Response & Offsite Assistance
- Threat Assessment



Nuclear Security & Safeguards



Information Security

Preventing Unauthorized Disclosure

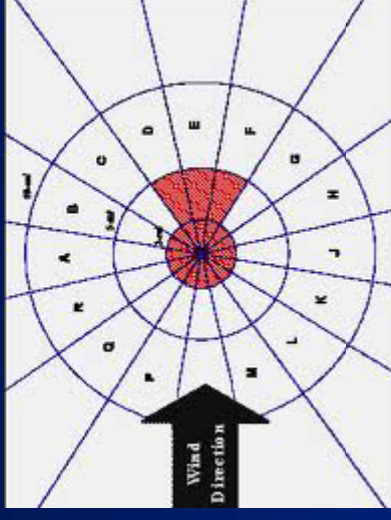


Emergency Planning Zones

Emergency planning is based on a range of accidents, including the most severe

Each nuclear plant has 2 Emergency Planning Zones

- ❖ 10 mile EPZ – Plume Exposure Planning Zone
Focused on protecting people short-term
- ❖ 50 mile EPZ – Ingestion Exposure Planning Zone
Focused on protecting people and the food supply long-term



The EPZ:

- ❖ Encompasses area that would be most affected by reactor accidents
- ❖ Could be expanded if necessary



Response to Fukushima Enhancements without Delay

- Re-evaluate external hazards
- Modify station blackout rule
- Mitigation strategies
- Reliable hardened vents
- Enhance spent fuel pool instrumentation
- Enhance emergency plan staffing and communications

