



R. E. Ginna Nuclear Power Plant Assessment Meeting

R. E. Ginna Nuclear Power Plant Safety Performance in 2010 & U.S. Nuclear Plant Safety in light of Japan Events

**2010 Reactor Oversight Process
Nuclear Regulatory Commission – Region I**



Agenda

- **Introduction**
- **Discussion of Ginna safety performance**
- **R. E. Ginna Nuclear Power Plant response**
- **Discussion of U.S. nuclear plant safety in light of nuclear plant events in Japan**
- **Closing remarks**
- **NRC to address public questions**



Today's NRC Representatives

- **Darrell Roberts** – Director, Division of Reactor Projects (DRP)
- **Glenn Dentel**– DRP Branch Chief
- **Gordon Hunegs**– Senior Resident Inspector
- **Lauren Casey** – Resident Inspector
- **Neil Sheenan** – NRC Public Affairs
- **Justin Hawkins**– Project Engineer



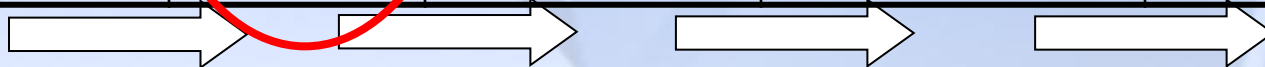
NRC Assessment Summary

- **Constellation Energy operated Ginna safely and in a manner that preserved the public health and safety and protected the environment.**
- **Regulatory Response column of the Action Matrix**
- **Supplemental Inspection completed July 2010**
- **Baseline inspections are planned for 2011**



NRC Action Matrix

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple Repetitive Degraded Cornerstone	Unacceptable Performance
All Inputs are Green; Cornerstone Objectives Fully Met	1 or 2 White Inputs; Cornerstone Objectives Fully Met	2 White or 1 Yellow Input; Cornerstone Objectives Met w/ Moderate Degradation in Safety Performance	Multiple Yellow Inputs or 1 Red Input; Cornerstone Objectives Met w/ Significant Degradation in Safety Performance	Overall Unacceptable Performance; Plants not permitted to Operate w/in this Column; Unacceptable Margin to Safety



- **Increasing safety significance**
- **Increasing NRC inspection efforts**
- **Increasing NRC/Licensee management involvement**
- **Increasing regulatory actions**



Inspection Activities in 2010

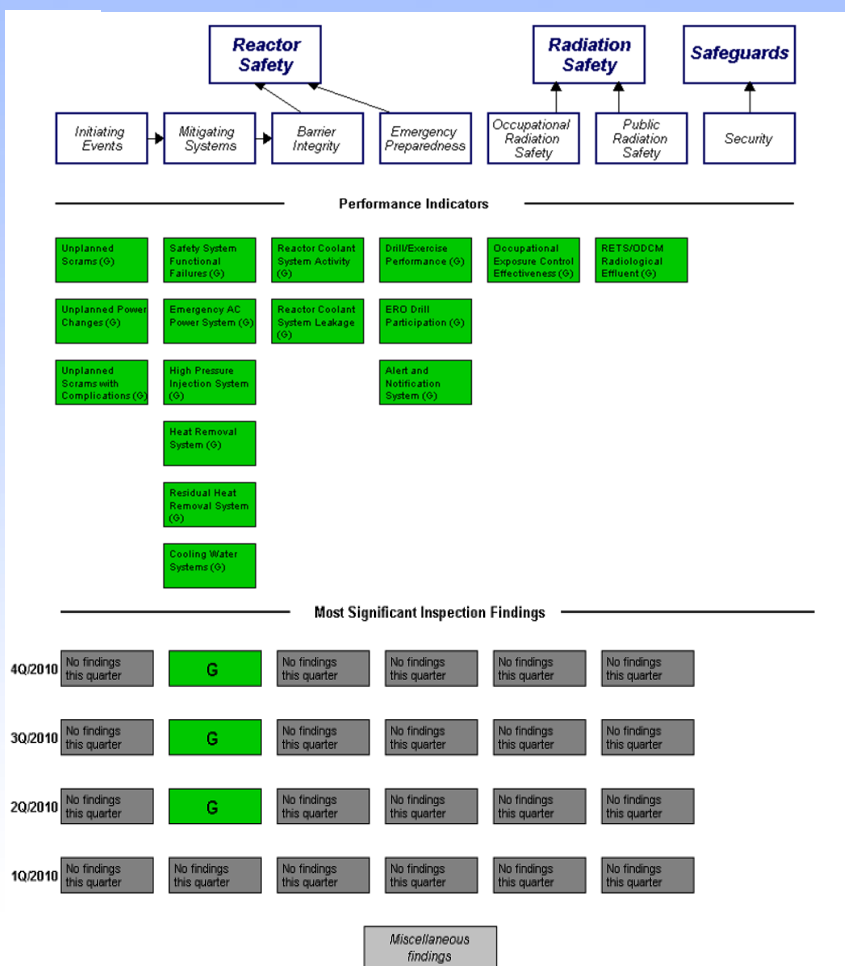
- 6400 hours of inspection and related activities
- 2 resident inspectors on site – residents perform inspections daily and can respond to plant events at any time
- 13 regional inspections
- 4 team inspections





Performance Indicator and Inspection Results

January 1 through December 31, 2010



- **1 White Performance Indicator** (Ginna will transition to Licensee Response column of the Action Matrix when the PI returns to Green.)
- **5 Green/Severity Level IV** inspection findings



2010 R. E. Ginna Nuclear Power Plant Assessment Summary

- **Ginna was operated safely**
- **Regulatory Response column of the Action Matrix**
- **Baseline inspections planned for 2011**





R. E. Ginna Nuclear Power Plant Assessment Meeting

R. E. Ginna Nuclear Power Plant Response and Remarks



R. E. Ginna Nuclear Power Plant Assessment Meeting

U.S. Nuclear Plant Safety in Light of Japan Events

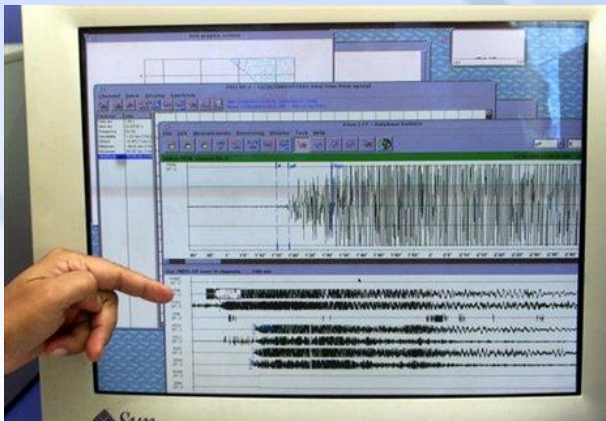


U.S. Nuclear Plants Remain Safe

- **NRC requires plants to be designed to withstand external events**
- **NRC requires a defense-in-depth approach to safety**
- **NRC performs independent safety inspections**
- **NRC assesses new safety information and requires improvements**



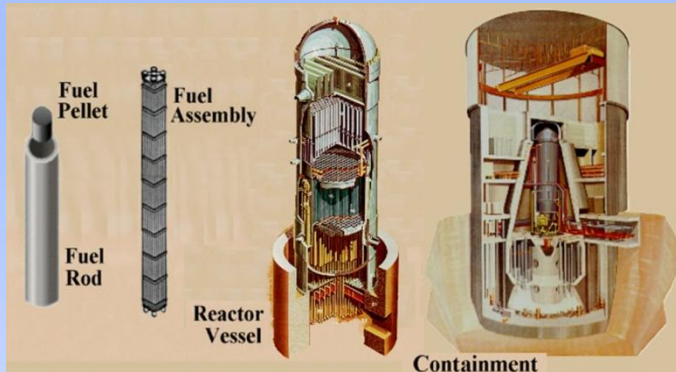
Designed for Site Specific Natural Events



- Earthquakes
- Tsunamis
- Hurricanes
- Floods
- Tornadoes



The NRC Requires Defense-In-Depth



- **Redundant and diverse safety systems**
- **Multiple physical barriers to contain radioactive material**
- **Testing and inspection of systems important to safety**
- **Emergency planning**





NRC Independent Safety Inspections

Reactor Oversight Program

- **NRC inspectors have unfettered access to all plant activities related to nuclear safety and security**
- **At least two full-time NRC resident inspectors at each nuclear plant**
- **NRC specialists conduct additional inspections at each nuclear plant**

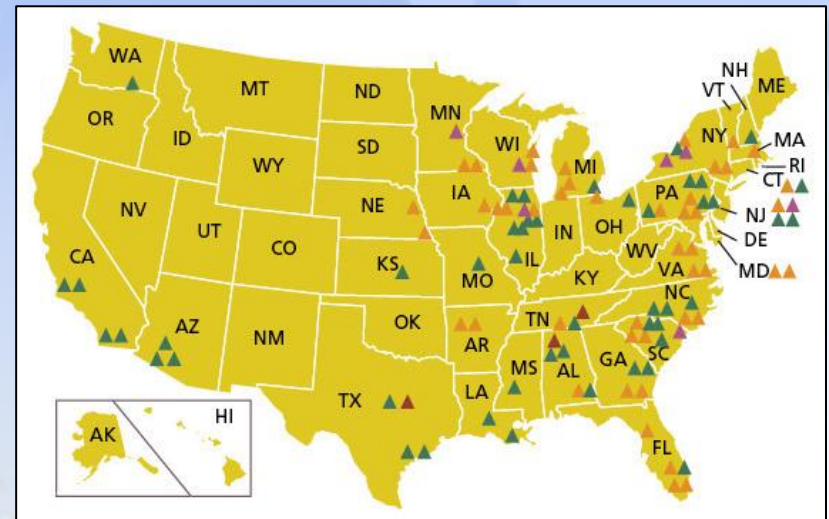




NRC Requires Safety Improvements

NRC assesses new safety information, develops lessons learned, and requires safety enhancements:

- **NRC operating experience program**
- **Rulemaking (Station Blackout)**
- **Post TMI Actions**
- **Post 9/11 Orders**
- **Generic Safety Issues**





NRC Response to Events in Japan

- **NRC conducting a methodical and systematic review**
- **Near-term actions (<90 days)**
 - **conducting additional inspections**
 - **identifying near-term operational issues**
- **Longer-term actions**





Director's Comments

**Darrell Roberts, Director
Division of Reactor Projects
USNRC, Region I**



Meeting Ground Rules

- 1. Please be respectful to the speaker – only one speaker at a time**
- 2. See NRC staff if you have procedural questions/concerns or still want to sign up.**
- 3. NRC staff members will be available after the meeting to talk to those interested**



Questions

