



Nine Mile Point & James A. FitzPatrick Assessment Meeting

Nine Mile Point Nuclear Station and James A. FitzPatrick 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 Nine Mile Point safety performance**
- **Discussion of James A. FitzPatrick safety performance**
- **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)

FitzPatrick

- **Mel Gray** – DRP Branch Chief
- **Ed Knutson** – Senior Resident Inspector
- **Scott Rutenkroger** – Resident Inspector

Nine Mile Point

- **Glenn Dentel** – DRP Branch Chief
- **Ken Kolaczyk** – Senior Resident Inspector
- **Doug Dempsey** – Resident Inspector

- **Neil Sheehan** – NRC Public Affairs



NRC Assessment Summary

Nine Mile Point

- **Constellation Energy operated Nine Mile Point safely and in a manner that preserved the public health and safety and protected the environment.**
- **Licensee Response column of the Action Matrix**
- **Baseline inspections are planned for 2011**



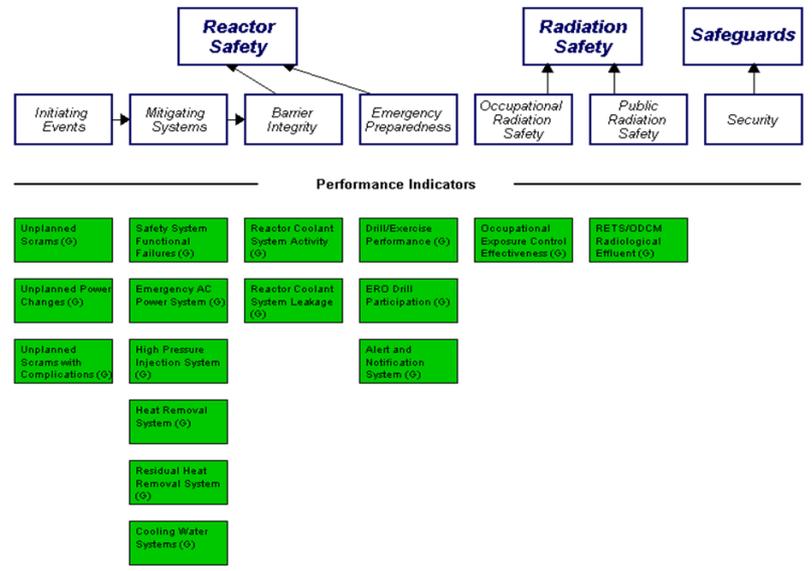
Inspection Activities in 2010

- **6300 hours of inspection and related activities**
- **2 resident inspectors on site – residents perform inspections daily and can respond to plant events at any time**
- **14 regional inspections**
- **5 team inspections**





Performance Indicator and Inspection Results



Most Significant Inspection Findings

| Quarter | Indicator 1 | Indicator 2 | Indicator 3 | Indicator 4 | Indicator 5 | Indicator 6 |
|---------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 4Q/2010 | No findings this quarter |
| 3Q/2010 | No findings this quarter | G | No findings this quarter |
| 2Q/2010 | No findings this quarter | G | No findings this quarter |
| 1Q/2010 | G | G | No findings this quarter |

Miscellaneous findings

January 1 through December 31, 2010

- All Green Performance Indicators
- 7 Green/Severity Level IV inspection findings



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**



2010 Nine Mile Point Assessment Summary

- **Nine Mile Point was operated safely**
- **Licensee Response column of the Action Matrix**
- **Baseline inspections planned for 2011**





NRC Assessment Summary

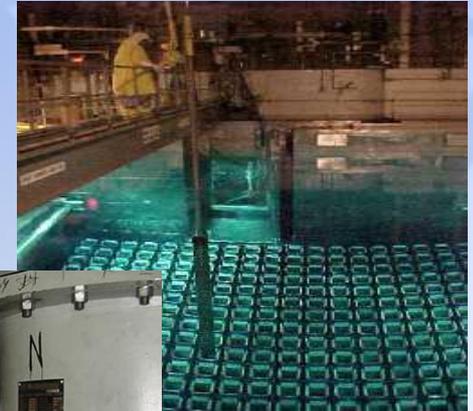
James A. FitzPatrick

- **Entergy Nuclear Northeast operated James A. FitzPatrick safely and in a manner that preserved the public health and safety and protected the environment.**
- **Licensee Response column of the Action Matrix**
- **Baseline inspections are planned for 2011**



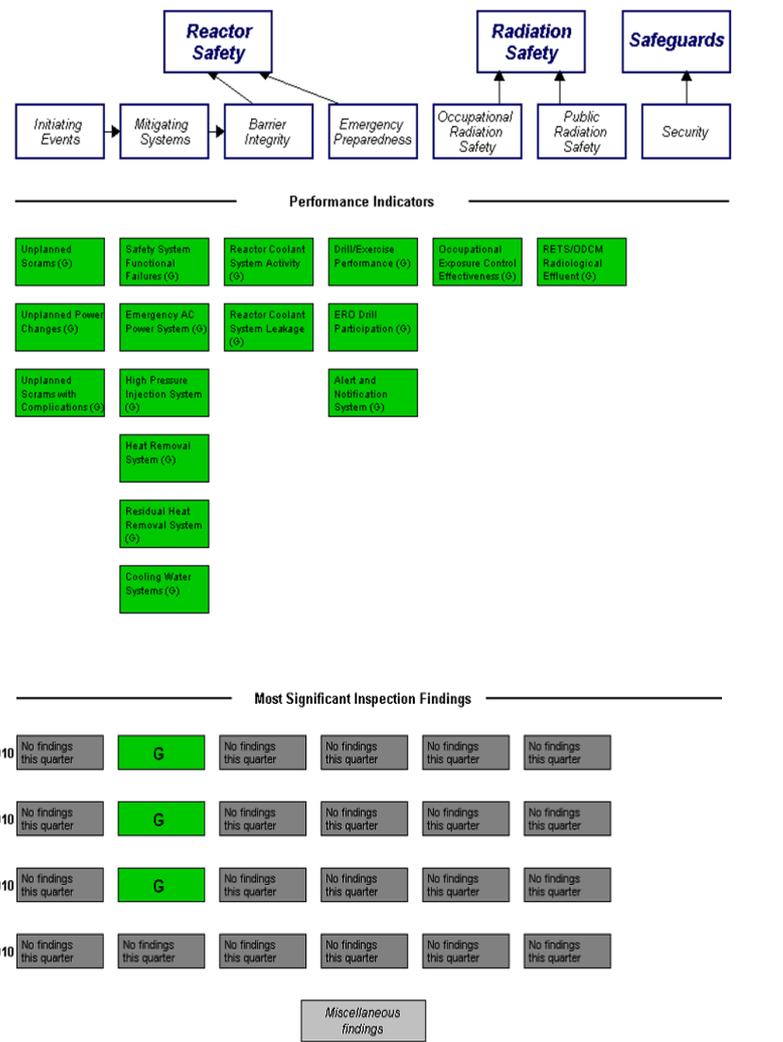
Inspection Activities in 2010

- **5800 hours of inspection and related activities**
- **2 resident inspectors on site – residents perform inspections daily and can respond to plant events at any time**
- **11 regional inspections**
- **5 team inspections**





Performance Indicator and Inspection Results



January 1 through December 31, 2010

- (All Green) Performance Indicators
- 8 Green/Severity Level IV inspection findings



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**



2010 James A. FitzPatrick Assessment Summary

- James A. FitzPatrick was operated safely
- Licensee Response column of the Action Matrix
- Baseline inspections planned for 2011





Nine Mile Point & James A. FitzPatrick Assessment Meeting

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

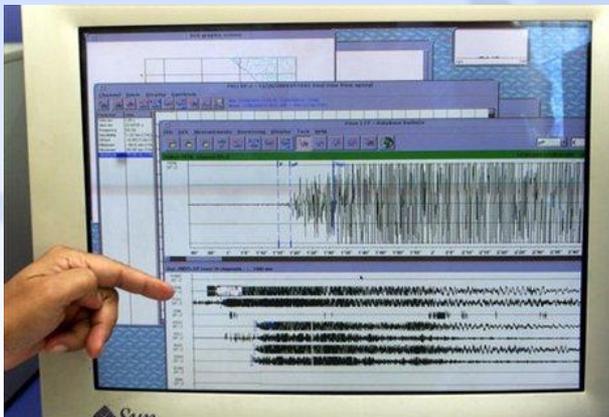


U.S. Nuclear Plants Remain Safe

- **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**



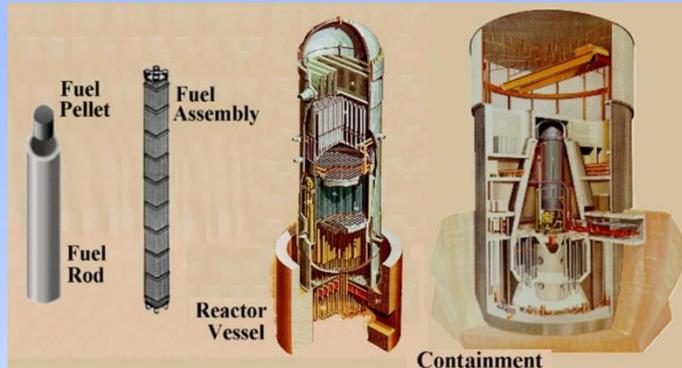
Designed for Site Specific Natural Events



- 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**

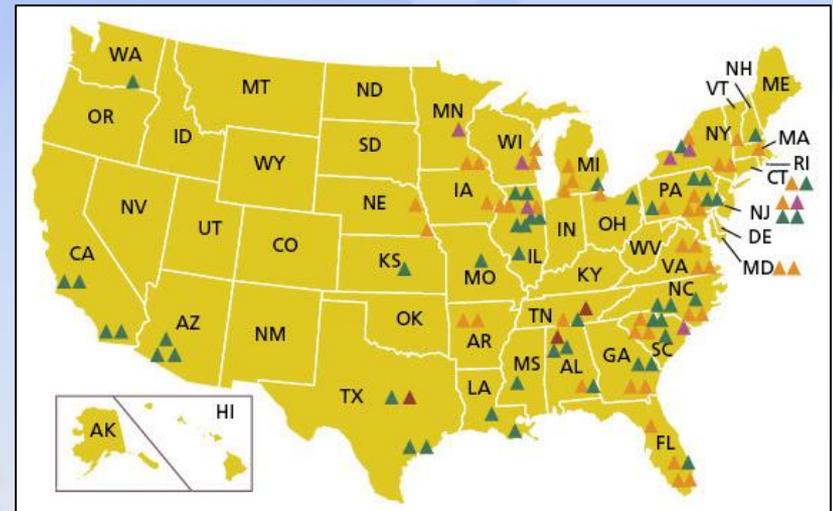




NRC Requires Safety Improvements

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

