



# ***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**

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**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
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- **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**



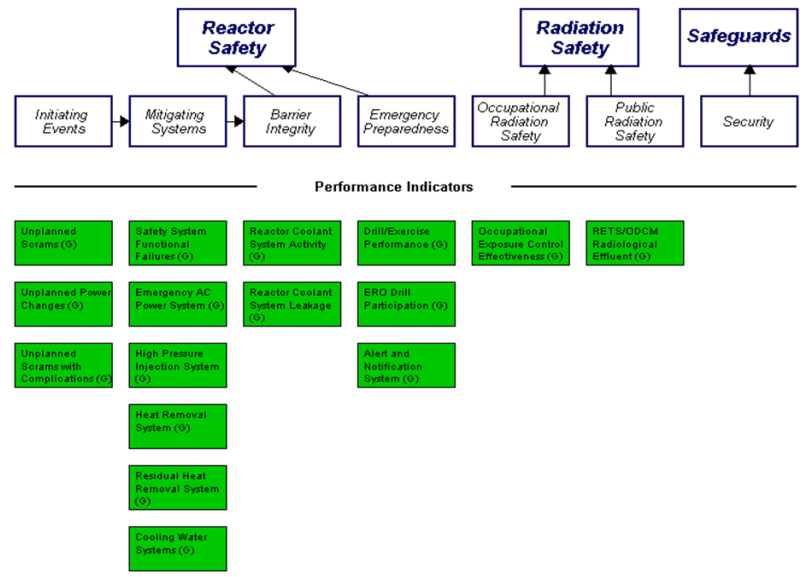
# ***Inspection Activities in 2010***

- **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	Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Security
4Q/2010	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
3Q/2010	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	G	No findings this quarter	No findings this quarter
2Q/2010	No findings this quarter	G	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
1Q/2010	G	G	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	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***

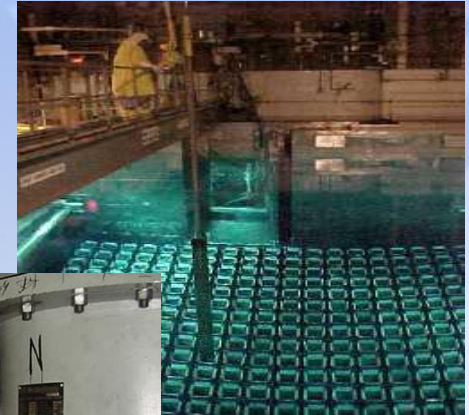
## ***James A. FitzPatrick***

- **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**



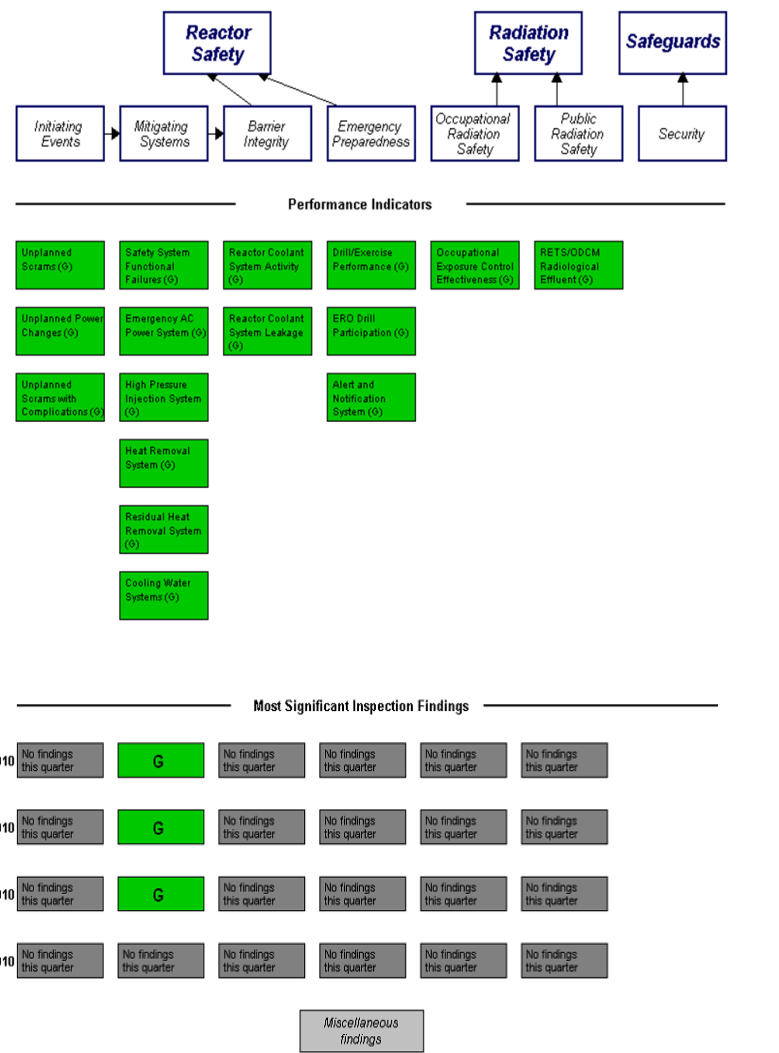
# *Inspection Activities in 2010*

- **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**

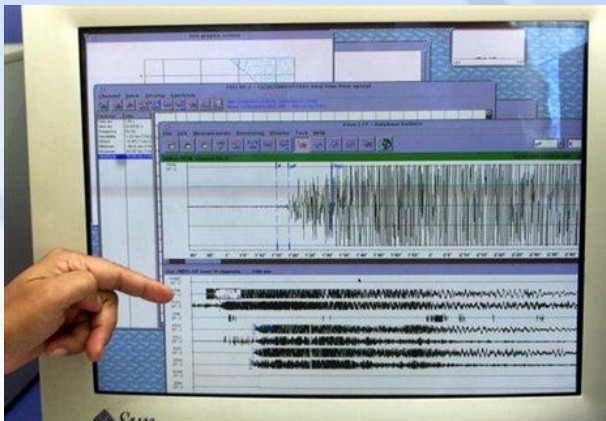


# ***U.S. Nuclear Plants Remain Safe***

- **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

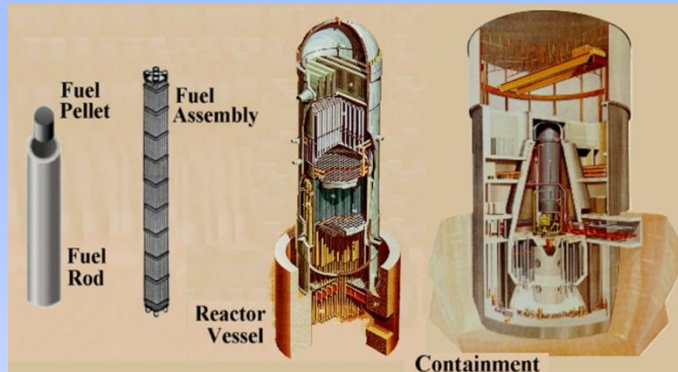


- Earthquakes
- Tsunamis
- Hurricanes
- Floods
- Tornadoes





# 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**

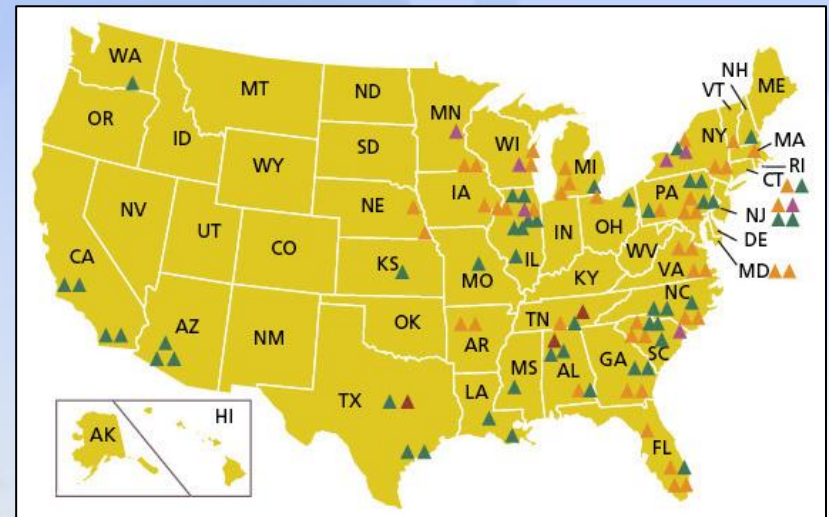




# ***NRC Requires Safety Improvements***

**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

