

Monticello Nuclear Generating Plant Annual Assessment Meeting

Reactor Oversight Process – 2013

Nuclear Regulatory Commission - Region III

Monticello, MN

March 31, 2014



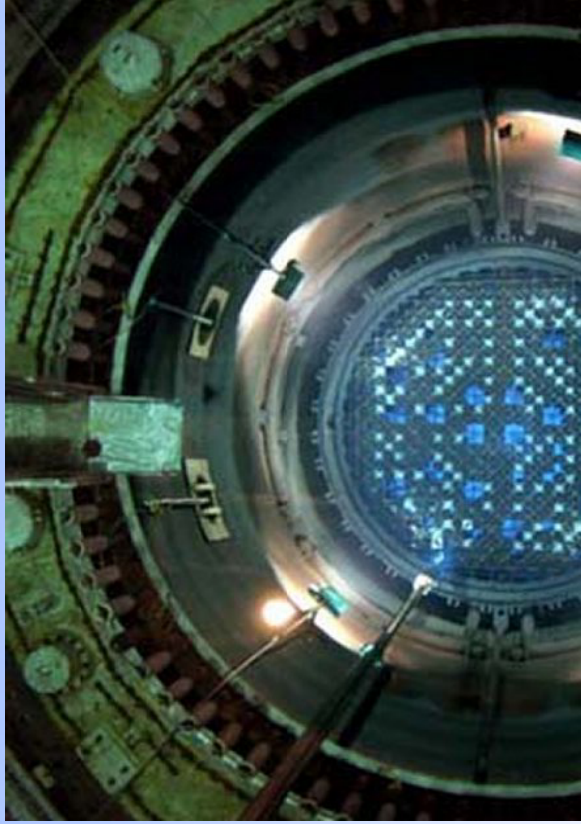
Opening

Cynthia Pederson Regional Administrator NRC Region III



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.





Agenda

- **Introduction**
- **National Summary of Nuclear Plant Performance**
- **Monticello Plant Performance Results**
- **Xcel Response and Remarks**
- **NRC Closing Remarks**
- **Break**
- **NRC available to address Public Questions**



National Summary of Plant Performance

Status as of 12/31/2013

Licensee Response	80
Regulatory Response	9
Degraded Cornerstone	9
Multiple/Repetitive Deg. Cornerstone	1
Unacceptable	0
IMC 0350 Oversight	1
Total	100



Significance Threshold

Performance Indicators

Green: Only Baseline Inspection
White: Increases NRC Oversight
Yellow: Increases NRC Oversight
Red: Increases NRC Oversight

Inspection Findings

Green: Very Low Safety Issue
White: Low to Moderate Safety Issue
Yellow: Substantial Safety Issue
Red: High Safety Issue



Monticello Inspection Activities

January 1 - December 31, 2013

- **Baseline Inspection – ~2500 hours**
 - Resident Inspectors on site daily
 - Regional Inspectors from Lisle, IL
 - Maintenance
 - Operations
 - Engineering
 - Radiation Protection
 - Security
 - Emergency Preparedness



Monticello Inspection Activities

2013 Refueling Outage

- In July 2013, Monticello completed a three month refueling outage during which several substantive plant modifications were made to support the extended power uprate.
- The NRC identified numerous examples of human performance issues associated with inadequate contractor control, inadequate procedures or work instructions, and with management decision making/oversight, which resulted in several findings of low safety significance.



Action Matrix Summary

January 2013 – December 2013

Licensee Response I	Regulatory Response II	Degraded Cornerstone III	Multiple/Rep Degraded Cornerstone IV	Unacceptable Performance V
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In the first quarter of 2013, Monticello was in Column 1—Licensee Response Column. In the second quarter, the plant moved to Column 3—Degraded Cornerstone Column. This was due to a **Yellow Finding** (substantial safety significance) involving the plant's failure to have procedures in place to fully address the effects of an external flooding scenario.



Monticello Assessment Results

Monticello was one of only 9 plants nationwide to be assessed in the Degraded Cornerstone Column.

Monticello was also the only Region III plant to be assigned a substantive cross-cutting issue in the area of human performance, specifically complete, accurate and up-to-date design documentation, procedures and work instructions.

Due to the decline in performance, Monticello will receive increased inspection and oversight until corrective actions taken prove to be effective and sustained performance improvement is observed.



NRC Actions In 2014

- **Supplemental 95002 inspection for Flooding**
- **Routine, baseline inspections**
 - Substantive Cross-Cutting Issue in Human Performance
 - Dry Cask Storage
 - Extended Power Uprate



Monticello Inspection Activities

Yellow Finding for External Flooding

- On June 11, 2013, the NRC issued a Yellow finding for the licensee's failure to maintain a procedure fully addressing the design basis external flooding event. The issue was documented in Inspection Report 2013009.
- This issue was identified as part of the agency follow up actions in response to the Fukushima nuclear event.
- This finding will remain open until the NRC completes a 95002 supplemental inspection.



2014 Supplemental 95002 Team Inspection

- **The objectives of the 95002 inspection are to provide assurance that:**
 - **the causes of the deficiency are understood**
 - **the extent of the issue has been identified**
 - **corrective actions will prevent reoccurrence**
 - **safety culture has been evaluated**



Monticello Inspection Activities

Dry Cask Storage

- Monticello has loaded 16 dry fuel storage canisters
- In October 2013, the NRC identified that weld tests were performed improperly on one canister. Subsequently, the licensee identified five additional canisters with improper weld tests.
- The NRC is confident the casks are leaktight because multiple additional tests were performed on the closure welds that demonstrated no leakage. The casks are also subject to radiation monitoring which has not shown any elevated radiation levels.
- The NRC is evaluating the licensee's actions to address this issue.



Monticello Inspection Activities

Extended Power Uprate

- On December 10, 2013, the NRC approved the licensee's request for an extended power uprate (EPU) , to raise the current licensed power from 1775 to 2004 MWt (a 13% increase).
- The NRC is evaluating the licensee's actions to implement the EPU.



Licensee Response and Remarks

Northern States Power Company



Questions/Comments





Contacting the NRC

- **Report an emergency**
 - (301) 816-5100 (call collect)
- **Report a safety concern**
 - (800) 695-7403
 - Allegation@nrc.gov
- **General information or questions**
 - www.nrc.gov
 - Select “What We Do” for Public Affairs



NRC Representatives

- Cynthia Pederson, Regional Administrator
 - (630) 829-9658
- Ken O'Brien, Deputy Division Director, DRP
 - (630) 829-9601
- Terry Beltz, Project Manager, NRR
 - (301) 415-3049
- Paul Zurawski, Senior Resident Inspector
 - (763) 295-2066
- Patricia Voss, Resident Inspector
 - (763) 295-2066
- Ken Riemer, Branch Chief
 - (630) 829-9628
- Nick Shah, Project Engineer
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NRC Representatives

- **Viktoria Mitlyng, Public Affairs Officer**
 - (630) 829-9662
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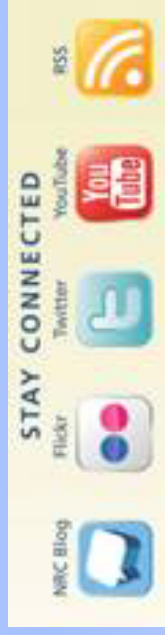
Reference Sources

- Reactor Oversight Process
 - <http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>
- Public Electronic Reading Room
 - <http://www.nrc.gov/reading-rm.html>
- NRC Information Digest
 - <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/>
- Public Document Room
 - (800) 397-4209 (Toll Free)





NRC Social Media Channels



- **Blog:** <http://public-blog.nrc-gateway.gov/>
- **Flickr:** <http://www.flickr.com/photos/nrcgov/>
- **Twitter:** <https://twitter.com/#!/nrcgov>
- **YouTube:** <http://www.youtube.com/user/NRCgov>
- **RSS:** <http://www.nrc.gov/public-involve/listserver.html#rss>