



Welcome!

This webinar will start in a few moments

Oyster Creek Nuclear Generating Station 2014 Annual Assessment

Nuclear Regulatory Commission – Region I

Today's Presenters



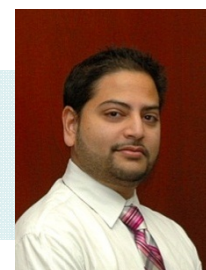
Ho Nieh
Director, Division of Reactor Projects



Silas Kennedy
Branch Chief, Division of Reactor Projects



Niklas Floyd
Reactor Inspector, Division of Reactor Safety



Amar Patel
Senior Resident Inspector, Oyster Creek



Brett Klukan
Regional Counsel (Moderator)

- 2014 Performance Results
- Inspection Activities at Oyster Creek in 2014
- Discussion of Greater than Green Findings
- Question-and-Answer Session
- Closing Remarks

Agenda



Exelon operated Oyster Creek safely and in a manner that preserved the public health and safety and protected the environment.

2014 Annual Assessment Summary



Action Matrix

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Repetitive Degraded Cornerstone	Unacceptable Performance
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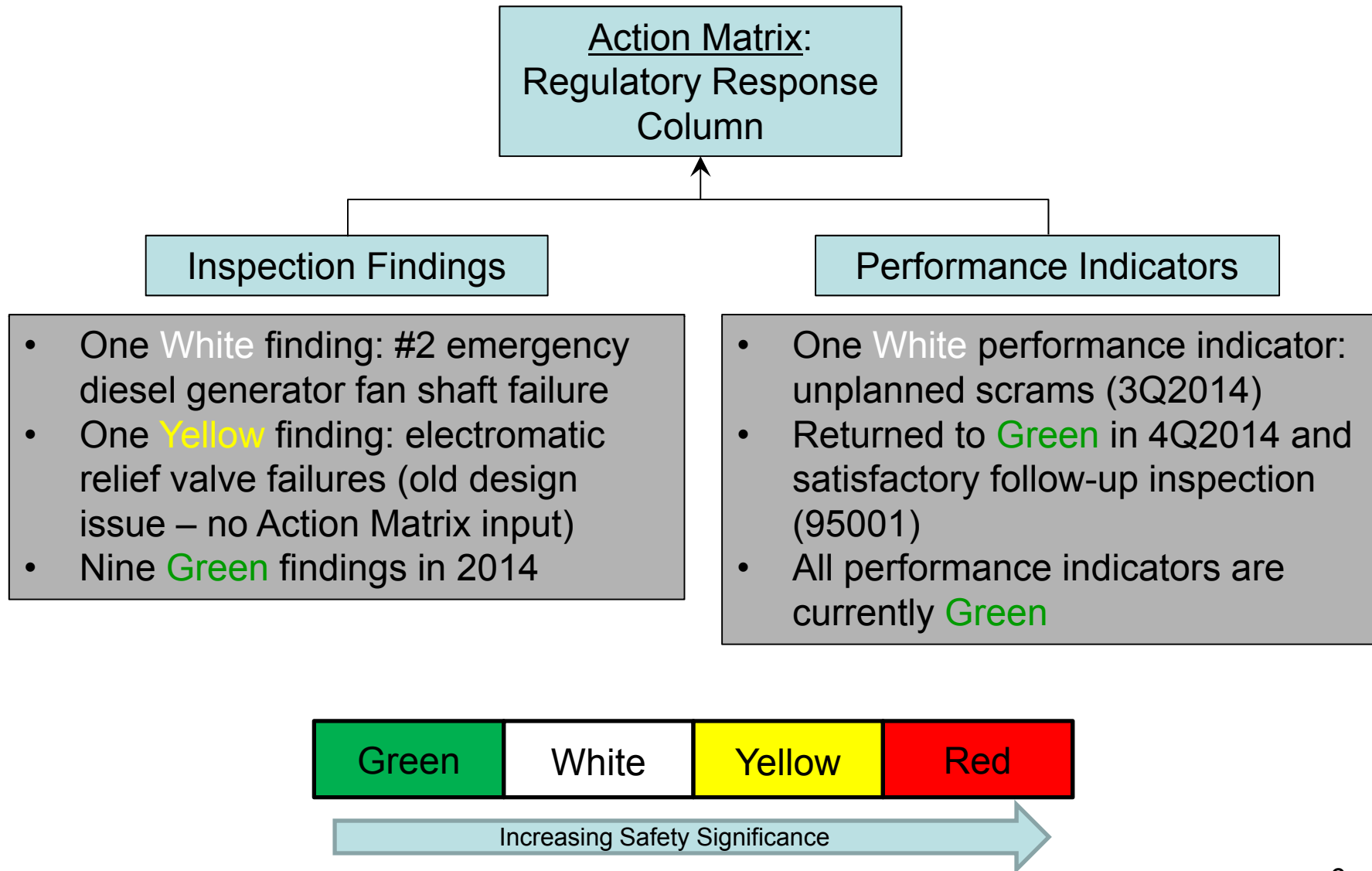
Increasing:

- *Safety Significance*
- *Inspection*
- *Management Involvement*
- *Regulatory Action*

Assessment Summary (cont.):

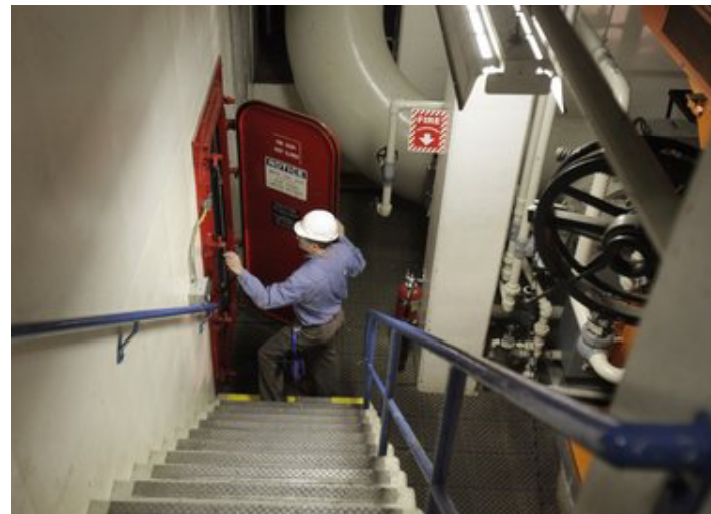
Oyster Creek is in the **Regulatory Response** Column of the NRC's Reactor Oversight Process Action Matrix

Assessment Summary (cont.):



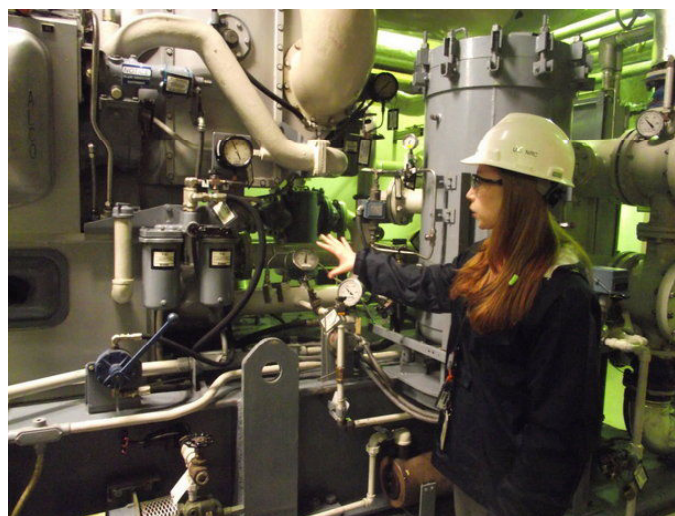
- 6900 hours of inspection and related activities
- 2 Resident Inspectors on site – residents issue four quarterly inspection reports per year and walk through the plant every day

NRC Inspection Activities at Oyster Creek in 2014



- 14 regional inspections
- 2 major team inspections
 - Fire Protection
 - Problem Identification and Resolution
- Follow-up inspection (95001) for a White unplanned scrams performance indicator

NRC Inspection Activities at Oyster Creek in 2014



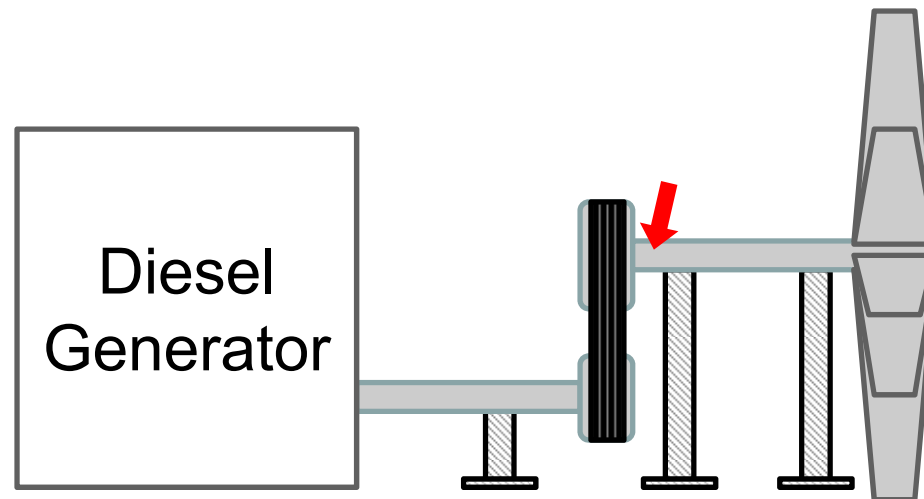
- No. 2 Emergency Diesel Generator Fan Shaft Failure
- Electromatic Relief Valve (EMRV) Failures

Greater-than-Green Findings



No. 2 Emergency Diesel Generator Fan Shaft Failure

- White violation of 10 CFR 50, Appendix B, Criterion III, “Design Control”
- Exelon did not review the suitability of a new maintenance process for tensioning the cooling fan belt for the diesel generators.
- This resulted in the shaft being more susceptible to fatigue and subsequent failure.



No. 2 Emergency Diesel Generator Fan Shaft Failure (cont.)

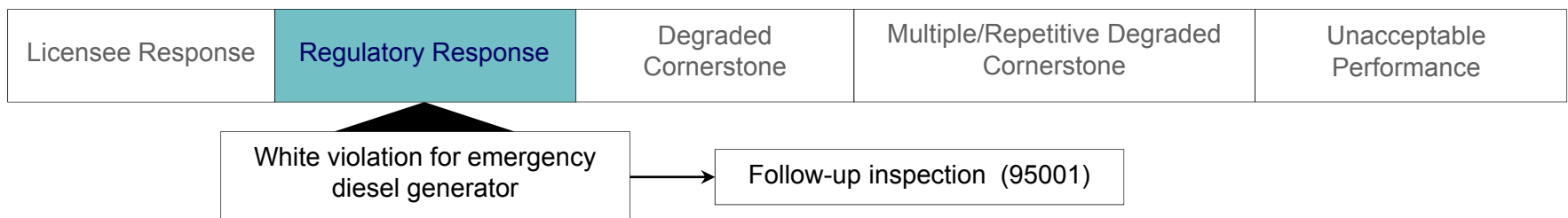


- Exelon's corrective actions included:
 - Replacing the fan shaft for No. 2 emergency diesel generator
 - Checking for a similar problem in the identical No.1 emergency diesel generator
 - Revising the maintenance procedure

No. 2 Emergency Diesel Generator Fan Shaft Failure (cont.)

- Background on the Issue
 - NRC Inspection Report 05000219/2014005 (February 11, 2015)
 - ADAMS Accession Number: ML15042A072
- Date of follow-up supplemental inspection (95001): TBD

Action Matrix Input



Electromatic Relief Valve (EMRV) Failures

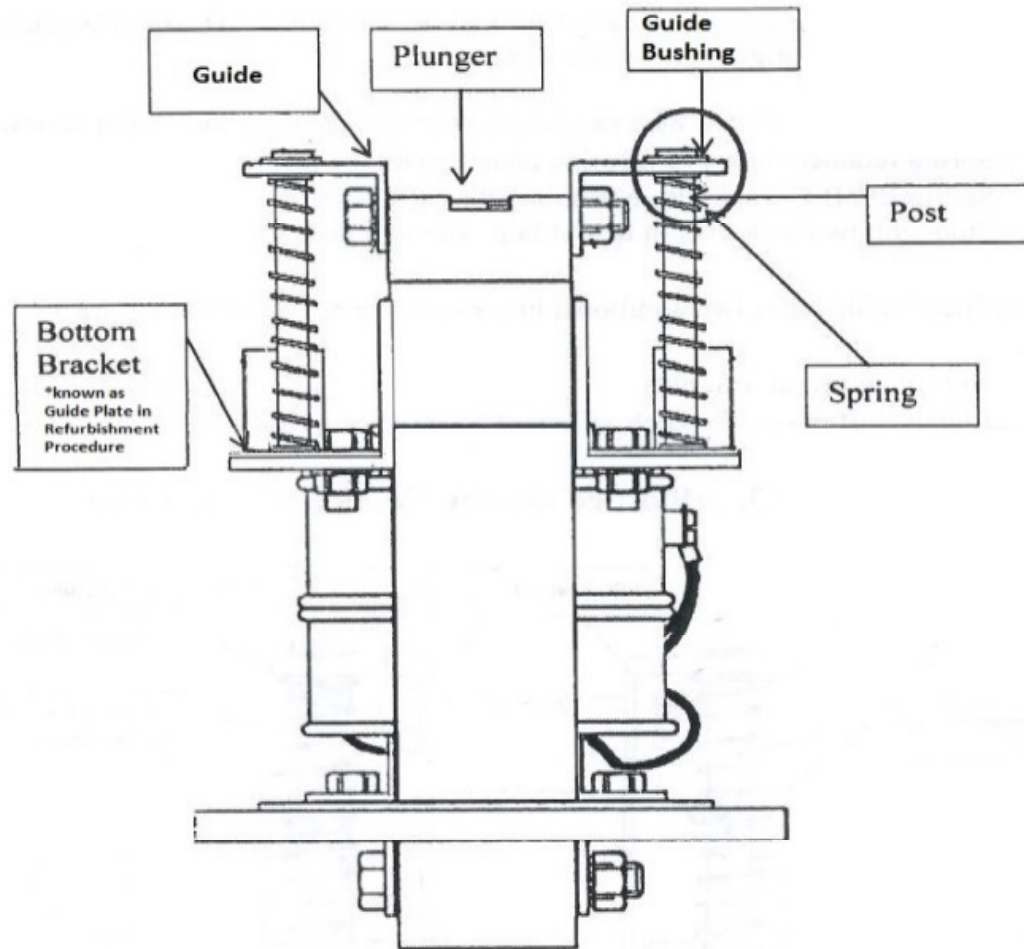


- Yellow violation of 10 CFR 50, Appendix B, Criterion III, “Design Control”
- Old design issue per Inspection Manual Chapter (IMC) 0305
- The original design of the EMRV actuators was inadequate because portions of the actuator could bind when subject to vibration associated with plant operation.



Electromatic Relief Valve (EMRV) Failures (cont.)

- EMRV actuator design



Electromatic Relief Valve (EMRV) Failures (cont.)

- Exelon's corrective actions included:
 - Performing a reactor shutdown and containment entry to test the currently installed EMRVs. All five EMRVs stroked successfully



Electromatic Relief Valve (EMRV) Failures (cont.)

- Corrective actions (cont.):
 - Replacing all five EMRV actuators with redesigned actuators during the refueling outage in October 2014
 - Revising applicable maintenance procedures



Why is this an Old Design Issue?

- Identified by Exelon through voluntary as-found bench testing of EMRV actuators
- Exelon replaced all of the actuators with redesigned actuators, and revised applicable maintenance procedures



Why is this an Old Design Issue (cont.)?

- Not likely to be previously identified by recent ongoing licensee efforts
- Not a current performance deficiency associated with existing Exelon programs, policy, or procedure



What will the NRC do with this Old Design Issue?

- No input into the NRC Action Matrix (i.e., no column changes)
- Our process (IMC 0305) still requires performance of a follow-up (supplemental) inspection to review Exelon's root cause evaluation and corrective actions for this issue.
- Because this issue is Yellow, the NRC will perform supplemental inspection procedure 95002 (date TBD)

Action Matrix Input

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Repetitive Degraded Cornerstone	Unacceptable Performance
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White violation for emergency diesel generator

Follow-up inspection (95001)

No Action Matrix Input

Yellow violation/old design issue for EMRVs

Follow-up inspection (95002)

Electromatic Relief Valve (EMRV) Failures (cont.)

- Background on the Issue
 - NRC Inspection Report 05000219/2014009 (February 11, 2015)
 - ADAMS Accession Number: ML15042A231
- Date of follow-up supplemental inspection (95002): TBD





Questions and Answers



Thank you for participating in this Webinar!

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E-mail comments to Silas Kennedy at silas.kennedy@nrc.gov

