

Dresden Nuclear Power Station Units 2 and 3

Annual Assessment Summary

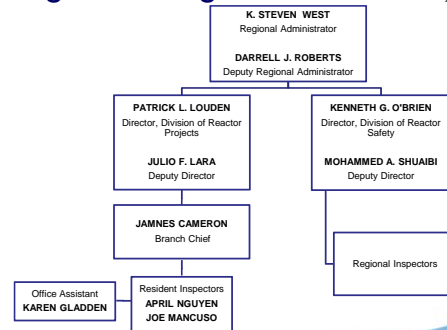
2017 Reactor Oversight Process
Nuclear Regulatory Commission – Region III

Meeting's Purpose



- Public forum for discussion of Dresden Nuclear Station's performance in 2017
- NRC will address questions on the plant's performance as identified in the NRC's annual assessment of the plant

Region III Organization



Our Mission



- The NRC licenses and regulates the Nation's civilian use of radioactive materials to provide reasonable assurance of adequate protection of public health and safety and to promote the common defense and security and protect the environment.

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Some Nuclear Facts



- 99 nuclear power plants supply about 20 percent of the electricity in the U.S.
- Nuclear materials are used in medicine for diagnosis and cancer treatment.
- Nuclear materials are widely used in industry, such as in density gauges, flow measurement devices, radiography devices, and irradiators.

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What We/NRC Regulate



United States Nuclear Regulatory Commission
Protecting People and the Environment

Reactors



Materials



Waste



What It Includes



United States Nuclear Regulatory Commission
Protecting People and the Environment

Safety



Security



Environment



What We Don't Regulate



United States Nuclear Regulatory Commission
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Military



Radon



X-Rays



Assurance of Plant Safety Elements



United States Nuclear Regulatory Commission
Protecting People and the Environment

Continuous Training



Long-Term Maintenance



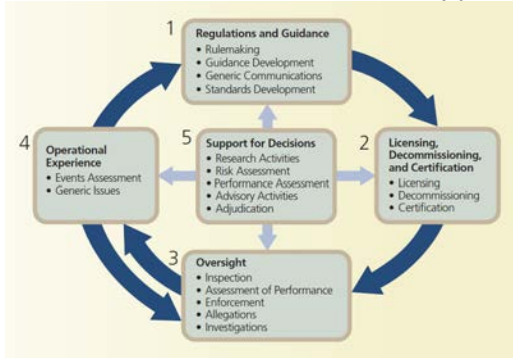
Regulation Compliance



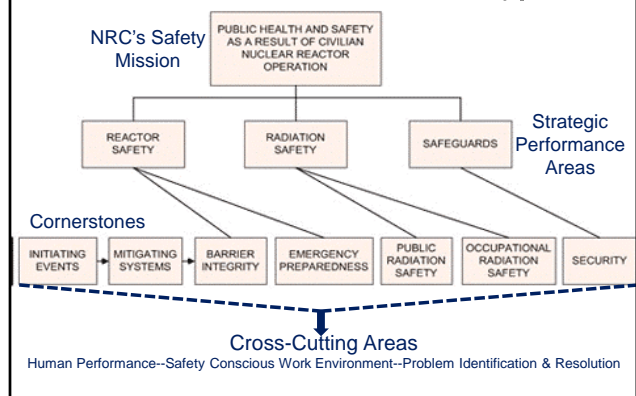
Defense In-Depth



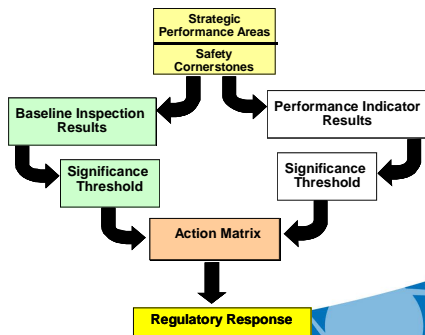
How We Regulate



Regulatory Framework



Reactor Oversight Process



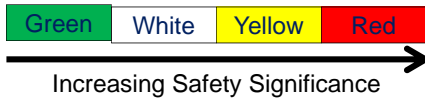
Performance Indicators

- 17 Performance Indicators
- PI's for each cornerstone
- Licensee submits data to NRC quarterly
- Inspection program verifies accuracy
- Data available on NRC website

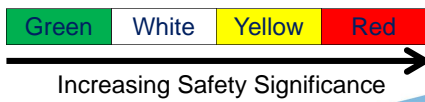
Significance Threshold



Performance Indicators



Inspection Findings



Action Matrix Columns



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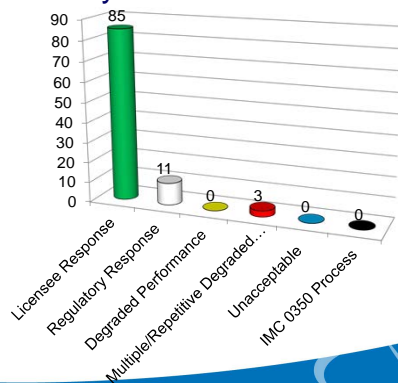
Increasing:

- Safety Significance
- Inspection
- Management Involvement
- Regulatory Action

Industry-Wide Performance



As of 02/20/2018

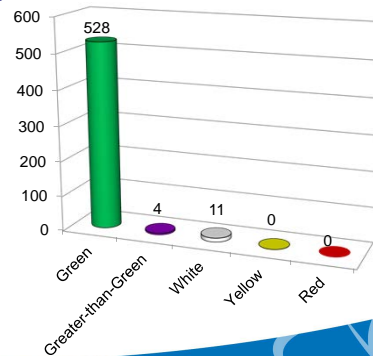


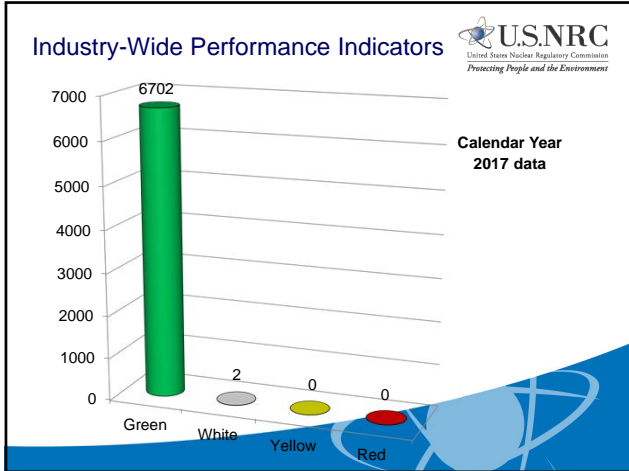
Industry-Wide Inspection Findings



Finding data current as of 2/20/2018

Calendar Year 2017 data





NRC Annual Assessment Summary

Dresden Nuclear Power Station

- The Licensee, Exelon Generation, operated the station safely and in a manner that preserved the public health and safety and protected the environment.
- Dresden Unit 2 was in the Licensee Response Column of the NRC's ROP Action Matrix for all quarters of 2017.
- Dresden Unit 3 met all cornerstone objectives with only one White finding identified (Mitigating Systems Cornerstone) in the last quarter of 2016 and closed in the third quarter of 2017 and returned to the Licensee Response Column in the fourth quarter of 2017.
- NRC plans baseline inspections at Dresden for 2018.

Examples of Baseline Inspections

- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~250 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~110 hrs every 2 yrs
- Worker Radiation Protection ~95 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

NRC Inspection Activities

Dresden Nuclear Power Station for 2017

- 2 resident inspectors on site – residents produced four quarterly inspection reports and walked through the plant daily
- 32 other inspectors participated in various inspections
- 2 major team inspections
 - Triennial Fire Program Inspection
 - Biennial Emergency Preparedness Inspection

NRC Inspection Activities



Dresden 2017

- ~4866 total hours expended by NRC on Reactor Oversight Process activities
- 2427 inspector hours of direct inspection activity
- 534 inspector hours reviewing and observing plant operating status
- 1150 inspector hours of preparation for and documentation of inspection activities
- 755 hours for other Reactor Oversight Process elements (e.g., assessments and communications)

Dresden Nuclear Station



PIs and Findings

January 1 through December 31, 2017

- All Green Performance Indicators
- 6 Green inspection findings which included:
 - Failure to correct a condition adverse to quality associated with Diesel Generator single largest load rejection surveillance testing
 - Lapse in procedure use and adherence resulted in short duration secondary containment inoperability

Actions in Response to the Japan Nuclear Accident



- Actions in response to Japan Nuclear Accident Website: <https://www.nrc.gov/reactors/operating/ops-experience/japan-dashboard.html>
- Mailbox for comments on staff actions: JLD_Public.Resource@nrc.gov
- Office of Public Affairs Point of Contact: OPA.resource@nrc.gov or 301-415-8200

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>

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
- Dresden NRC Resident Inspectors
 - 815-942-9267

