

# Exelon Nuclear Byron Generating Station

U.S. NRC End-of-Cycle  
Public Meeting  
May 8, 2007

# Byron Accomplishments – 2006

- Successful Unit 1 Refueling Outage
- Completed Phases 1, 2 & 3 of B.5.b NRC Security enhancements
- Material Condition Improvements
  - DEH
  - Alloy 600 inspections and upgrades on unit 1
  - Feed Water Regulating Valve Digital Positioners
  - Four new air-cooled Station Air Compressors
  - 1D and 2C RCP Motor replacements
  - Fuel Transfer System reliability modifications

# Performance Issues

- NRC Performance Indicators
  - All indicators are “Green” with the exception of AF Heat Removal. The Unit 2 indicator is white due to three 2B AF functional failures in March and November 2005 and January 2006. Expected return to green by April 2008.
  - NRC Supplemental Inspection of Unit 2 AF white indicator conducted in January 2007 with no findings of significance identified and adequate corrective actions.

# Performance Issues

- NRC Findings
  - Entered into the Station Corrective Action Program
  - Very Low Safety Significance

# Cross-Cutting Human Performance (HU)

- Initial concern noted in August 2005 Mid-Cycle Assessment letter
- Identification as a cross-cutting issue in NRC March 2006 End-of-Cycle Performance Review letter
- Corrective Actions:
  - Established a dedicated Human Performance Coordinator position reporting directly to the Plant Manager
  - Established Site Human Performance Leadership Committee

# Cross-Cutting Human Performance (HU) Issues

- Corrective Actions (continued):
  - Conducted a detailed common cause analysis of cross cutting issues and actions developed to address:
    - Supervisory oversight and engagement
    - Procedure quality
  - Developed Site Wide Human Performance Improvement Plan (HPIP)
    - Incorporated existing Departmental Human Performance Plans
    - Incorporated actions from Common Cause Analysis
    - Obtained input from workforce through Human Performance Review Panel
    - Progress monitored through HU Leadership Committee
  - Improvement noted in performance

# Cross-Cutting Human Performance (HU) Issues

- Results:
  - August 2006 Mid-Cycle Assessment letter concluded Byron cross-cutting issue was closed.

# Byron Tritium Action Update

- Continued update meetings with NRC, IEMA and IEPA representatives
- March 2007 - First quarterly IEMA / IEPA Inspection performed per House Bill 1620



# Byron Key Events - 2007

- Unit 2 Refueling Outage
- Summer operations
- NRC evaluated Security Force-on-Force drill
- Bi-annual Emergency Preparedness evaluated exercise
- Operations Training Program INPO Accreditation review
- Continually monitor and improve human performance

# Byron Top Priorities- 2007

- Striving to be "***A Nucleus of Excellence***"
  - Industrial Safety
  - No Events
  - Communications
  - Teamwork
  - Stretch