



# **Exelon Nuclear Byron Generating Station**

**U.S. NRC End-of-Cycle  
Public Meeting**

**May 5, 2011**

## Recent Accomplishments

- ✓ Successfully retained INPO #1 rating
- ✓ Successfully licensed new operators.
  - Eight Senior Reactor Operators
  - Six Reactor Operators
- ✓ Achieved a Capacity Factor in 2010 of 97.0%.
- ✓ Upgraded Security Perimeter Detection and successfully completed Force on Force Exercise.

# Plant Improvements

# Replaced Rotating Internals of 1B Reactor Coolant Pump

4



# Replacement of the last Essential Service Water Pump and Motor

5



# Initial Loading of Dry Cask Fuel Storage Facility



# Replaced 106 Electronic Logic Cards (53 cards in 2 cabinets) in the Reactor Protection System

7



# Byron Station Community Outreach

- ✓ In 2010, Byron Station and its employees donated more than \$200,000 to local charities, civic groups and worthwhile causes, including:
  - Employees donated \$130,000 to the United Way
  - Byron Station donated \$10,000 to the Illinois Paddling Council for its efforts with the Great Rock River Sweep river cleaning event
  - Scholarships for students at Byron, Oregon and Stillman Valley High Schools totaling \$3,000
  - Donated \$8,000 total to the Winnebago and Rockford youth robotics teams
  - Sponsor of festivals in Byron, Davis Junction, Mount Morris, Oregon and Stillman Valley.
  - At the Station's Children's Christmas party, employees collected hundreds of pounds of food and nearly \$1,000 for local food pantries
  - Donated nearly \$10,000 to various walks, pledge drives and golf benefits



## ✓ Short Term:

- Re-validate readiness to manage extreme events.

## ✓ Long Term:

- Careful analysis of the Japanese accident and how reactors, systems, structure components, fuel and operators performed.
- Incorporate lessons learned into U.S. reactor designs and operating practices.
- Share Lessons Learned from Emergency Planning with Federal, State and Local Officials.

- ✓ Verify each plant's capability to manage major challenges, such as aircraft impacts, loss of large areas of the plant due to natural events, fire or explosions.
- ✓ Verify each plant's capability to manage loss of off-site power.
- ✓ Verify capability to mitigate flooding and the impact of floods on systems inside and outside the plant.
- ✓ Perform walkdowns and inspections of important equipment needed to respond to extreme events.