

**UTILITY RADIOLOGICAL SAFETY BOARD OF OHIO
MEETING MINUTES
JULY 10, 2006**

Mr. Robert Owen, Vice Chair, called to order the July 10, 2006 meeting of the Utility Radiological Safety Board of Ohio at 1:30 p.m.

The first order of business was roll call, taken by the URSB Secretary, Martha Underwood.

I. ROLL CALL

EMERGENCY MANAGEMENT AGENCY	MR. MARK PATCHEN
DEPARTMENT OF HEALTH	MR. ROBERT OWEN
DEPARTMENT OF AGRICULTURE	MR. ANTHONY MITCHELL
PUBLIC UTILITIES COMMISSION	MR. DAN FISHER
ENVIRONMENTAL PROTECTION AGENCY	MS. CINDY HAFNER
DEPARTMENT OF COMMERCE	MR. DEAN JAGGER

A quorum was declared.

II. READING OF THE APRIL 10, 2006 MINUTES (ADOPTED)

The Board dispensed with reading of the April 10, 2006 minutes. Mr. Owen asked for any additions, corrections or deletions to the minutes. Mr. Owen asked for a motion to approve the minutes. Mr. Anthony Mitchell of the Ohio Department of Agriculture (ODA) moved to adopt the minutes and Mr. Dan Fisher, of the Public Utilities Commission of Ohio (PUCO) seconded. The motion was carried.

III. OLD BUSINESS

A. Working Group Initiatives. Before Carol O'Claire discussed the Initiatives, she made a couple of announcements. The first being that this would be Darryl Walden's last URSB meeting because he is retiring from the Ohio Emergency Management Agency and that his last day would be July 31. She wished him good luck in his new adventures. Also, she mentioned that Chuck Kirchner, with the Agriculture Department, had double by-pass surgery last week. Tony Mitchell stated that Chuck had 90 percent blockage on one artery and 40 percent blockage on the other. Everything went well.

BVPS Ingestion Exercise (EMA/ODH/EPA/ODA): A full participation ingestion exercise was conducted on June 27–28, 2006. The first day was full-participation which meant that they had all the EOC activated and field activities to include the field monitoring teams, communications van and the sample screening point. This was an after-hours exercise so it was a feat getting everyone called and into the EOC and she appreciated everyone's effort on that. The second day was a post-plume phase exercise which was conducted in the daytime. It included the Executive Room, the IZRRAG and the Field Team Center in addition to some assistance from the JIC.

Unfortunately, our JIC was unable to participate the whole time because of a real live emergency happening at the same time. **Preliminary results indicate no findings for the state of Ohio and two Areas Requiring Corrective Action (ARCA's) for Columbiana County.** The two ARCA's were in regards to misinformation on news releases and incorrect survey methodologies at two monitoring and decon facilities. The **strengths** for the state of Ohio included : The EOC Executive Group demonstrated the ability to simultaneously handle real-world activities with

exercise activities. The Day Two controller developed spreadsheets that are used by the Radiological Laboratory and the Dose Assessment staff. The dose assessment spreadsheets developed by John Wills allowed for data to be implemented easily which reduced time to make complicated assessments and formulation of protective actions. The EOC staff displayed professionalism; each individual knew their roles and responsibilities and performed their functions well. Their commitment to actively participating with federal counterparts was outstanding.

For the county, the radio club was proactive and they did demonstrate commitment of leadership. Carol stated that she did not have the results on how Pennsylvania or West Virginia fared.

Vernon Higaki stated that he didn't bring his summary, but he believed that there were two ARCAs in Beaver County, and none for the state of Pennsylvania or West Virginia. There may have been one item in the monitoring of the decon center in Hancock County. All in all, this was very good for a team of about 40 some evaluators.

Carol O'Claire agreed and stated that there were 9 evaluators here at Ohio EMA and eight in the county, and a lot of people participating.

PNPP Partial Participation Exercise (EMA/ODH/EPA): A partial participation exercise will be conducted on October 24, 2006, with a dry run exercise on October 4, 2006. The Extent-of-Play meeting will be held July 11 at the La Scala Restaurant and Darryl Walden's retirement luncheon will also be held at the restaurant. And there will be a NEPAC and the 100-Day meeting there. A partial participation exercise does not involve Field Monitoring Teams or the EOC Operations Room.

Reactor Oversight Program (EMA): This is an NRC program used to provide continuous oversight of nuclear power plants to verify that each plant is operated in accordance with NRC rules and regulations. Key features of the new program are a risk-informed regulatory framework, risk-informed inspections, a significance determination process to evaluate inspection findings, performance indicators, a streamlined assessment process, and more clearly defined actions the NRC will take for plants based on their performance. The URSB will continue to monitor this program especially as it relates to emergency preparedness. The findings are shown on the attached matrix located at the end of the Initiatives – these are current as of the first quarter of the year. The two White findings are still there for Perry.

After-Action Plan Activities (EMA/ODA/ODH/EPA) The Exercise After-Action Group completed work on the Beaver Valley ingestion exercise. The group continues to review and revise the Ingestion Zone Recovery/Reentry Advisory (IZRRAG) procedures, the advisories, the Field Team Center (FTC) procedures, as a result of lessons learned from the exercise.

Perry Nuclear Power Plant (PNPP)

- 1) Perry has two open White findings in Mitigating Systems (2003). The White finding in Emergency Preparedness (2004) has been closed. Perry continues in the fourth column of the NRC oversight program.
- 2) Due to the performance trend at Perry, the NRC has increased regulatory oversight. The NRC issued a Confirmatory Action Letter (CAL) to the utility on September 28, 2005. The NRC

conducted a public meeting on March 14, 2006 to give FirstEnergy the opportunity to discuss their corrective actions. Ohio EMA and ODH had representatives present. The outcome was a Phase 2 Performance Improvement Initiative Plan. The Ohio EMA observed the Phase 2 Improvement Initiative inspection. Both ODH and Ohio EMA continue to participate in CAL follow up inspections. Both agencies will participate in the July 11 public meeting to discuss emergency preparedness action item and effectiveness and review; and human performance action item review.

Davis-Besse Nuclear Power Station (DBNPS)

FirstEnergy is required to complete four independent assessments as part of the authorization to resume operations at Davis-Besse. This five-year commitment includes operational performance, corrective action program, engineering program effectiveness and organizational safety culture.

Technology (EMA/ODH/EPA)

A review is in progress of current equipment. Recommendations are being considered for any needed new equipment to support a nuclear power plant emergency. The Working Group has assessed the need for consistent plant data in the Assessment Room, and met with FENOC to address this issue on December 6, 2005. FENOC has developed a matrix to allow the Working Group to monitor the progress of their actions.

Teletrix equipment has been purchased for training of first responders. There is a review in progress to assess Plume Tracker, a software training program for the Field Monitoring Teams.

Q: Bob Owen asked if Carol was using both in concert with each other.

A: Carol stated that they are independent.

National Incident Management System (NIMS) (EMA)

The state Radiological Emergency Preparedness (REP) Plan for Nuclear Power Plants requires modification to become NIMS compliant by September 2006. Changes have been made to the state REP Plan and have been submitted to DHS. Ohio EMA will continue to implement NIMS as inconsistencies are discovered.

State Dose Assessment Program (ODH/EMA)

Ohio EMA provided RASCAL training to Working Group members in May, 2006. The Working Group will assess RASCAL and OEMA programs in July and August and will provide recommendations at the October URBS meeting. Vernon Higaki, FENOC, requested to be included in the discussions.

JIOP Clarification (ODH)

An agreement between FENOC and the State of Ohio has been finalized that includes details of requirements for unescorted site access for the Joint Inspection Observation Program (JIOP). EMA is working towards unescorted access for four employees. ODH is working with their union.

KI (ODH/EMA)

The shelf life of KI for the general public and emergency workers is approaching expiration (May 2007). The State of Ohio is seeking clarification from the NRC on their position for

replenishing the current KI tablet supply. The State of Ohio is not interested in obtaining liquid KI.

Ohio Agriculture Brochure (ODA): Anthony Mitchell stated that the Ohio Agriculture Brochure will be reviewed and updated as necessary and distributed in the fall of 2006.

**B. Bob Owen reviewed the Department of Health Midwestern Radioactive Material Transportation Committee Report.
Committee Meeting**

The Committee met on June 14-15 in Cedar Rapids, Iowa.

Manual Review Topic Group

Comments on the DOE Radioactive Material Transportation Practices Manual were presented by the Committee to DOE in May, 2006. Because of the significant detailed comments to the Nuclear Waste Policy Act shipments, DOE is proposing to remove these shipments from the Manual and include them in other detail manuals.

Section 180 (c) Funding

DOE submitted a draft Federal Register notice to their senior management for review. The Committee plans to review and comment on the notice once issued.

Route Selection Process

At the request of the DOE Office of Civilian Radioactive Waste Management, the four state regional groups discussed their ideas and preferences regarding the steps that should be taken to select national routes for shipments to a federal repository for spent nuclear fuel and high-level radioactive waste.

Global Nuclear Energy Partnership (GNEP)

President Bush announced his intention to fund the GNEP, a fuel reprocessing and recycling program, which could affect funding and shift the focus away from Yucca Mountain. The Committee submitted comments on DOE's advance notice of intent to prepare an environmental impact statement on the GNEP demonstration sites.

Nuclear Fuel Management and Disposal Act (S.2589)

Section 7 of this bill would exempt DOE from HMTAA regulations and give them the ability to preempt any state regulations, such as state fees or inspection programs. The Council of State Governments has adopted a resolution opposing passage of this bill with that clause.

National Academies of Science (NAS) Study

The NAS has completed a study on the safe transportation of spent nuclear fuel in the United States. Primarily they found such transportation to be relatively safe when conforming to current regulatory requirements. The Committee wrote a letter to the NRC expressing doubt that such a study would provide security information needed by states to adequately plan for such shipments. The Committee requested that NRC make it a priority to develop appropriate versions of its package security assessments and to share this information with the state organizations involved in ensuring the safety and security of shipments.

IV. NEW BUSINESS

A. Nuclear Regulatory Commission – Carol O’Claire.

Roland Lickus, NRC, was not available for the meeting due to prior commitments. Ms. O’Claire as Ohio NRC Liaison provided information on the Perry Nuclear Power Plant. Perry continues under augmented NRC oversight. There will be a public meeting on July 11 at 3:00 pm at the Quail Hollow Resort to discuss the results of the NRC’s Confirmatory Action Letter and follow-up inspections of the Emergency Preparedness and Human Performance areas.

Ms. O’Claire also read the intent of the NRC Regulatory Issue Summary 2004-15, Supplement 1 Emergency Preparedness Issues: Post-9/11: to reinforce existing regulations and guidance related to the maintenance of the emergency plan and implementing procedures and the evaluation of changes made to plant procedures and processes impacting the emergency plan.

B. Utility Reports

Beaver Valley Power Station

a. Unit 1 Outage February 13, 2006

Outage completed on time, in 65 days, and under budget. Beaver Valley staff replaced all three steam generators and the reactor vessel closure head. Turbine generator work included rewinding the generator stator and replacement of the exciter rotor. An unplanned loss of cooling to the Spent Fuel Pool occurred when a valve which was being worked on began to leak and River Water (Service Water) had to be secured due to flooding in the cubicle with the leak. All fuel was in the Spent Fuel Pool. After approximately 10 minutes service water was returned to service using a different service water pump, restoring cooling to the spent fuel pools.

b. BVPS exercise

Beaver Valley biennial emergency plan exercise was conducted on June 27 with the Ingestion Pathway Exercise on June 28. NRC inspection results are still under review and FENOC will be at Region I headquarters on July 10 to provide additional exercise information to the lead inspector. The offsite portion of the exercise went very well in both Department of Homeland Security regions (Ohio and Pennsylvania/West Virginia). Ingestion pathway exercise also had good results.

c. Security event April 18

A tractor-trailer (scheduled to pick up tooling from the outage) was stopped for security inspection at the Vehicle Inspection Facility prior to being granted access to the site. Search of the vehicle found a duffle bag that was closed and locked. Upon removal of the lock by Site Protection personnel it was observed that the bag contained a large amount of cash. Site Protection supervision was contacted and prior to a decision being made concerning granting entry the drivers of the vehicle decided to leave. Site Protection contacted Local Law Enforcement which pulled the truck over. The Regional Anti-Terrorism Task Force was activated. Under questioning by the FBI neither driver admitted the cash was theirs. The more than \$500,000.00 was confiscated by the FBI and the drivers released.

d. Unit 2 Tech Spec shutdown 4/11/06

On April 11, 2006, Beaver Valley Power Station Unit No. 2 was at 100% power. A technical specification limiting condition of operation was entered on April 10, 2006, at 0436 hours due to the removal of the "A" train of Secondary Leak Containment Recovery System (SLCRS) for scheduled maintenance.

At 0924 hours on April 11, 2006, an inadvertent actuation of fire protection system deluge valves resulted in a wetting of the charcoal filters for both parallel filters in the "B" train of SLCRS and in one of the two filters in the "A" train of SLCRS. With the charcoal main filter banks wet, their filtering capacity was diminished and both trains were declared inoperable due to their inadequate filtration ability.

In addition to the SLCRS main filter banks, deluge valve actuations affected the System Station Service Transformers, the Main Transformer, the Condensate Polishing building ventilation charcoal filter and the Decontamination building ventilation charcoal filter. The transformers were not adversely affected by the spray actuation and remained operable. The consequences of the spray on the Condensate Polishing and Decontamination building charcoal filters were not significant.

At 0924 hours, Unit 2 entered the actions of technical specification (TS) 3.0.3 which requires that within one hour action shall be initiated to place the unit in Hot Standby within the next 6 hours, Hot Shutdown within the following 6 hours and Cold Shutdown within the subsequent 24 hours.

In parallel with the plant shutdown, a Notice of Enforcement Discretion (NOED) was prepared for presentation to the NRC. At 1400 hours, with reactor power at approximately 26%, the request for a NOED was presented to the NRC for consideration. At 1520 hours, with reactor power at approximately 19%, the NOED was granted for a period of 48 hours and the plant shutdown was terminated. The unit returned to 100% power on April 12, 2006, at 1455 hours.

On April 13, 2006, the "A" train of SLCRS was declared operable and BVPS Unit No. 2 exited the NRC Discretionary Enforcement for TS 3.0.3 at 0945 hours.

The "B" train of SLCRS was returned to service on April 14.

Extensive analysis and investigation by the root cause team, which included support of industry fire protection system and electrical circuit troubleshooting experts, could not determine the exact cause of the deluge actuations. The team determined that the most probable cause of the event was a ground located on the non-safety related 125 VDC bus 2-5 or 2-6 that propagated a surge to the other DC bus and actuated sensitive fire protection actuation relays. All of the fire protection circuits did not actuate due to the difference in the actual impedance of the trip circuits in response to a surge on the buses. The exact location and cause of the ground could not be determined. It was most likely a ground somewhere in the DC system that cleared itself and could not be located later.

e. Unit 1 Tech Spec shutdown 5/26/06

Beaver Valley Unit 1 commenced a Technical Specification required shutdown at 1415 hours due to Train B Solid State Protection System inoperable. The condition was discovered during testing. Train A of Solid State Protection System remained operable and in service.

The failure was in the memory portion of the universal logic card in the low power trip block circuitry. The root cause was indeterminate despite rigorous investigation. The most probable cause of the event is that an electronic card pin was making a poor or intermittent electrical connection

Reactor start up and return to service occurred on May 27.

Additional inspections are planned for the next unit shutdown and changes are being made to testing procedures for earlier identification of this type of condition.

Davis-Besse Nuclear Power Station

a. Update on EPZ sirens (upgrade and relocation of sirens)

FENOC was notified that on June 23, 2006 Ohio Emergency Management Agency received concurrence from The Department of Homeland Security to relocate two sirens as part of the Davis-Besse siren upgrade project. The two new sirens had been installed at the new locations earlier this year, but not energized until concurrence was received from DHS.

The two new sirens will be placed in service and the two older sirens removed from service.

b. Independent Assessments - schedule

Operations Performance (June)

Corrective Action Program Implementation (August)

Engineering Programs (September)

Safety Culture/Safety Conscious Work Environment (November)

Results of the Operations Performance assessment were not yet available at the time of this writing and will be provided at the next URSB meeting.

c. 14 RFO report i.e. circumferential cracking a drain line

FENOC was granted a relief request from the NRC during the Davis-Besse refueling outage to perform the weld overlay repair of the drain line. The weld overlay is a permanent repair. Design information was provided to the NRC during the outage to provide the basis for making and maintaining the repair. Subsequent information has been submitted to the NRC in support of a Safety Evaluation Report. FENOC has not received any additional request for information and is awaiting receipt of the Safety Evaluation Report.

d. Downpower

The Plant had a reduction of power to 52% on June 23. It was restored to full power on June 25.

Perry Nuclear Power Plant

24 hr. notification: violation of the Fire Protection Program 05/04/06

On May 2, 2006, it was discovered that a specific set of Division 1 Emergency Diesel Generator (EDG) Control Room Control Switch contacts were not designed to isolate the Control Room from the local Division 1 EDG controls in the event of a control room fire.

On May 4, 2006 it was determined this deficiency violated the PNPP fire protection program and could adversely affect plant shutdown in the case of a control room fire. A potential fire induced hot short in the diesel generator logic circuit(s), could result in a failure to start or a spurious trip of the Diesel Generator even if control is transferred to remote control.

Although repairs and operator actions could have been taken to restore the Division 1 EDG if the Control Room fire caused a failure to start or a spurious trip of the Diesel Generator, these activities were not specifically identified in the Fire Protection safe shutdown analysis or associated operating procedures.

Compensatory actions (procedure changes) have been completed to address this issue. The Perry Nuclear Power Plant (PNPP) Operating License requires that a report be made within 24 hours to the NRC operations center via the emergency notification system in the event that a violation of the PNPP Fire Protection Program occurs

Non-credible security event: occurred on June 30 when an individual claimed to have planted explosives at the plant. It was determined to be unfounded and the event as non-credible.

EPA violation: A violation of EPA NPDES thresholds took place on July 8. Chemicals above the threshold limit was discharged into Lake Erie. Both EPA and NRC were notified.

FENOC

a. Unescorted Access

State of Ohio personnel are being processed for unescorted access at FENOC stations. No issues have been identified to date by FENOC.

Status of common fleet emergency plan/benchmarking

A draft version of the FENOC fleet emergency plan is being distributed to the three stations for comment from principle groups involved in emergency response such as Operations and Radiation Protection. A review of the plan versus the NRC standard review plan and other guidance document will be performed in parallel with the station review. Additionally, the template for emergency plans for new plants will also be used during the draft plan review to include the newest guidance that becomes available.

A draft is in progress for the NEI 99-01 version Emergency Action Levels for Perry Plant. A draft for Beaver Valley and Davis-Besse has not yet been started.

V. MISCELLANEOUS--The next meeting will be October 10 (Tuesday)

VI. ADJOURNMENT

Mr. Robert Owen, Vice Chair, adjourned the meeting at 2:30 pm.

DATE

NANCY J. DRAGANI, CHAIR
UTILITY RADIOLOGICAL SAFETY BOARD