



TMI-2 Community Advisory Panel (CAP) Meeting Minutes

Date: Thursday, March 20, 2025

Time: 6:00pm – 7:30pm

Location: Hybrid, accessible via www.tmi2solutions.com

Dial In: +1 385-500-4880, Conference ID 377086967#

Penn State Harrisburg
Olmstead Building
W107 Gallery Lounge
777 W. Harrisburg Pike
Middletown, PA 17057-4898

I. Welcome and Attendance – Dave Allard, CAP Chairperson

- In Attendance: David Allard, Todd Camp, Tim Barry, Tim Devik, Richard Kluskiewicz, Shen Kreiser (Virtual), Scott Miller (Virtual), Amy Burrell (Virtual)
- Absent: Bart Shellenhamer, Robert Gildea
- Dave opened the meeting, conducted TMI-2 CAP roll call, and welcomed the CAP members and thanked them for their participation.
- Dave also summarized the current CAP membership by name and the organizations they represented.
- Dave reviewed the meeting Agenda with the panel members. Dave requested that the agenda be approved by the panel. A Motion was made by Richard Kluskiewicz to approve the agenda as presented. The Motion was seconded by Tim Devik and the Motion was passed by the panel.
- Dave described the purpose of the Community Advisory Panel, its broad and cross-discipline make-up and the other groups that participate (PADEP, DNSRB, NRC)
- Dave nominated Shen Kreiser as CAP Vice-Chair. Ms. Kreiser accepted the nomination, and all panel members approved the appointment.
- Dave requested approval of the previous CAP meeting minutes from September 12, 2024, CAP meeting. A motion was made by Tim Devik to approve the minutes as prepared, and it was seconded by Shen Kreiser. The minutes were approved by the panel members with no dissenting.
- The CAP Chairperson proposed the next CAP meeting for Wednesday, September 24th and requested feedback from the panel members on potential future topics.

Note: After this meeting the next CAP meeting was scheduled for Wednesday, September 10th to accommodate schedule conflicts.

II. TMI-2 Decommissioning Project Status Update – Paul Ross, TMI-2 Project Director

- Paul Ross provided a brief background of his experience and role in the TMI-2 Decommissioning Project. Paul joined the project in July of 2024 and became the Project Director and Cognizant Officer in August of 2024. Paul has brought over 25 years of nuclear and project management experience to TMI-2.



- Paul summarized recent TMI-2 tour activities which included the PA State Historic Preservation Office/PA Historical Museum and the PA Department of Environmental Protection (PADEP). In November of 2024, TMI-2S turned over several historical items to the Commonwealth of PA as part of the recently approved Programmatic Agreement (PA) discussed at the last meeting. Finally, Paul mentioned that TMI-2 engages in routine calls with the PA Bureau of Radiation Protection (PABRP) and the PS State Historic Preservation Office (SHPO).
- Project is organized in three phases.
 - Phase 1a involved preparations for transitioning into active decommissioning or DECON.
 - Phase 1b is focused on fuel bearing material (FBM) recovery and source term reduction. The goal is to establish radiological conditions at the site like a plant that did not have the accident.
- The Phase 1b schedule is described in the Post-Shutdown Decommissioning Activities Report (PSDAR), Revision 6, and communicates the current high-level Project Schedule. Mr. Ross discussed the unique challenges at TMI-2 including the removal of radiological contamination in the Reactor Building (RB) and portions of the Auxiliary & Fuel Handling Buildings. The scope of this work has a direct impact on the schedule and the resources required to complete the clean-up.
- A summary of Waste Shipment was discussed by Mr. Ross.
 - In the fourth quarter of 2024, 14 Class A shipments or 8,826 ft³ of waste were shipped from the site.
 - In the first quarter of 2025, 9 Class A waste shipments were expected to leave the site as well as one (1) additional shipment for off-site processing.
- Mr. Ross presented a summary of planned Phase 1b activities:
 - Removal, packaging, and storage of remaining Fuel Bearing Material (FBM)
 - Independent Spent Fuel Storage Installation (ISFSI) Construction for interim storage of remaining Fuel Bearing Material
 - Dose reduction and decontamination of locked High Radiation Areas
 - Packaging and transportation of Radioactive Waste (Class A, B/C, and FBM)
 - Decontamination of radioactive systems and components
- The current scope of work being conducted at the TMI-2 site included:
 - Equipment Hatch Enlargement
 - Construction of a Decommissioning Support Building (DSB) needed to process radioactive material to be removed from the Reactor Building,
 - Spent Fuel Pool (SFP) Preparation to provide a resource for decontamination water and processing.
 - Removal of the Reactor Building (RB) Coolers which are a significant source term near the RB entry.
 - Robotics, Instrumentation, Systems, & Tooling (RIST) Committee which coordinates the use of robotics and evaluates new technologies.
 - Independent Spent Fuel Storage Installation (ISFSI) Pad completion, and



- Polar Crane Refurbishment to ensure maintenance and qualification of equipment
- Paul provided several recent photos of ongoing work at the site, including,
 - Reactor Building Cooler Removal
 - Equipment Hatch Enlargement, and
 - Decommissioning Support Building (DSB) Construction
- Paul concluded his presentation with the 2025 forecast for Waste Planning and shipment in 2025.
 - 30 shipments planned in 2025
 - Total Shipment volume to date: 39,846 cubic feet, or 1.01 Curies.

III. Environmental Monitoring Update – Mark Cambra, TMI-2 Environmental Manager

- Mark introduced himself to the CAP and that in his role he works in collaboration with TMI-1 and his counterparts at Constellation Energy Group (CEG)
- Mark provided an overview of the environmental monitoring pathways to members of the public due to plant activities and how they are managed at TMI-2.
- Mark provided maps/visuals of environmental sampling locations within:
 - One mile of TMI Station
 - Between one and five miles of TMI Station, and
 - Greater than five miles of TMI Station.
- Mark described the types of media that are monitored:
 - Direct Radiation through Dosimeters
 - Airborne Radioiodine and Particulates through Air Samplers
 - Water Borne, through
 - Surface Water Samples
 - Drinking Water Samples
 - Sediment Samples
 - Ingestion, through
 - Milk Samples
 - Fish and Invertebrates Samples
 - Food Product Samples
 - Broad Leaf Vegetable Samples
- Mark concluded with providing a link to the most recent Environmental Monitoring Report through the U.S. Nuclear Regulatory Commission (NRC) website.

IV. Regulatory Update – Joe Lynch, Regulatory Affairs Director (D&D)

- TMI-2 activities continue to be monitored by the Nuclear Regulatory Commission (NRC) through on-site, routine or baseline inspections approximately twice per calendar quarter. The next NRC inspection is scheduled for the week of March 24th – 27th and will be the last inspection for 1Q25.
- Inspections are based on NRC inspection procedures specific for sites that are in decommissioning and for site specific activities ongoing during the inspection period.
- The NRC will continue to conduct inspection activities associated with the construction of the Independent Spent Fuel Storage Installation (ISFSI) pad.



- Recent NRC submittals and pending licensing actions were presented at the meeting. These included:
 - Post-Shutdown Activities Report (PSDAR) - Update sent to NRC incorporating information from the response to NRC Request for Additional Information.
 - Security - Revising Security Plan to incorporate new NRC guidance for enhanced weapons and new event reporting requirements.
 - ISFSI - Project is coordinating required implementation activities with NRC to meet inspection requirements.
 - NRC Meetings – EnergySolutions and TMI-2 Project personnel met with NRC Headquarters and provided Project update on March 5. This “drop-in” visit was open to the public with only confidential material excluded from the presentation. These meetings will be routine and noticed by NRC when scheduled.
- Directions for receiving links for public documents for TMI-2 via E-mail.
 - Visit www.nrc.gov
 - Select **Public Meetings and Involvement**
 - Select **Subscribe to Email Updates**
 - Scroll down to **Lyris Subscription Services**
 - Click the link to **Decommissioning and Uranium Recovery Correspondence Page**
 - Add Name/Email Address and select **Three Mile Island Station, Unit 2 5000320 (Middletown, PA)**

V. Oversight Comments – TMI-2 Decommissioning Nuclear Safety Review Board (DNSRB) – Bill Ostendorff, DNSRB Chairperson

- Mr. Ostendorff described the Board structure and noted that it was established by EnergySolutions (ES) in 2020.
- The DNSRB is comprised of four (4) members and brings over 165 years of experience to the Board. Bill briefly introduced the members:
 - Phil Gianutsos (Radiation Protection)
 - Larry Camper (Former NRC Employee)
 - Greg Halnon (Former President of GPU Nuclear)
 - Bill Ostendorff (Former NRC Commissioner)
- The goal of the DNSRB is to assess safety, radiation protection, quality assurance, training, project leadership and overall excellence at TMI-2 and follows a Charter it developed with ES.
- DNSRB was last on-site in November of 2024. The purpose of the visit was to meet the new TMI-2 Project Director, Radiation Protection Manager, and assess TMI-2's approach to safety.
- Bill noted that the project continues to be responsive to DNSRB concerns, including the importance of communications, a strong nuclear safety culture and use of technology to aid in decontamination efforts. Next DNSRB visit is scheduled for the June of 2025.



- Dave Allard asked Mr. Ostendorff if there were any findings from the DNSRB's last site visit. Bill noted a recent safety standdown to improve worker readiness as a noteworthy event.
- Dave asked Mr. Ostendorff if Radiation Protection (RP) staffing was an issue at TMI-2. Bill responded that he had spoken to the Radiation Protection Manager about this issue and actions were being taken to address this potential challenge.

VI. Oversight Comments – Pennsylvania Department of Environmental Protection (PADEP) and Nuclear Regulatory Commission (NRC)

- Dwight Shearer – Director, PADEP Bureau of Radiation Protection (BRP)
 - The CAP is important to the Commonwealth of PA and the public surrounding the site (both TMI-1 and TMI-2)
 - The PADEP role and jurisdiction was described by Mr. Shearer noting the Department does not have any direct oversight or regulate the radioactive portion of the site, but it does regulate the water, air, and other portions of environmental protection.
 - The importance of understanding the lessons learned from the TMI-2 accident was emphasized and that there is trust through monitoring and good communication with all stakeholders.
 - The PADEP does duplicate environmental monitoring at a reduced level and the results from the State Laboratory are compared to the site results and results on great correlation.
 - The Bureau acknowledged that the state feels very included in all aspects of decommissioning. All State requests are quickly addressed by TMI-2 contacts
 - BRP are afforded the opportunity to participate in the daily Plan of the Day (POD) meetings, site visits, attend DNSRB meetings on a routine basis, and BRP has monthly calls with NRC.
 - The CAP Chairperson noted that the PADEP has a statutory responsibility to publish reports from TMI-2 and TMI-1 on-line for public review.
 - The CAP Chairperson asked if the PADEP is working with TMI-1 as the Emergency Plan is reactivated. Mr. Shearer indicated that there are monthly meetings with CEG (Constellation Energy Group) to stay in touch as the potential restart approaches.
- Amy Snyder – Senior Project Manager, NRC
 - Ms. Snyder introduced herself as the Senior Project Manager in the Reactor Decommissioning Branch of the USNRC and her role overseeing TMI-2.
 - NRC regulations and inspection activities are in place to ensure the protection of public health and safety.



- NRC participates in Weekly Status Calls/Meetings with ES/TMI-2S which include participation by both NRC headquarters and the NRC Region 1 office staff.
- The frequency of NRC Inspections are typically two inspections per quarter and more frequent, if necessary.
- NRC communicated that there are unique challenges at TMI-2 due to the impact of the accident and NRC will continue to provide oversight of the safe decommissioning of the plant.
- NRC is reviewing the plans and inspecting activities associated with the ISFSI and the Decommissioning Support Building (DSB) construction.
- NRC is following closely the Phase 1B fuel bearing material removal and source term reduction efforts including removal of the Reactor Building Air Coolers ongoing at the site.
- NRC spoke about the public meeting held at NRC headquarters on March 5th, 2025, which included a discussion of the new technologies being implemented and the impact of the Project Schedule. The meeting summary as well as slides from the meeting can be found on the NRC website. NRC also provided the ADAMS ML number for reference.
- NRC talked about the PSDAR, Revision 6 being reviewed by the NRC staff, is a living document, and that this document would be a good reference for the CAP members and the public.
- NRC noted that the CAP provides a good opportunity for the public and other stakeholders to learn about the Project and appreciates that TMI-2 is open and responsive to questions and feedback.

VII. Public Question and Answer Period – David Allard, CAP Chairperson

- Scott Portzline of TMI Alert had several questions for TMI-2. The majority are captured below:
 - Who do you communicate with at or regarding Fukushima?
 - Anyone from TEPCO?
 - Is the PORV still located in containment?
 - Is this something the Smithsonian requested to obtain?
 - Where are the TMI-2 Steam Generators?
 - How much fuel debris is in the Steam Generators?
 - Are the Condensate polishers still at the TMI-2 site?
 - In the case of a flood, do you have mitigation actions in place? Is it sufficient with today's flooding?
 - Question about the details of the Equipment Hatch enlargement.
 - Are there cask ventilation inspections for blockage? What is the frequency?
 - Are waste shipments by truck or train?
 - There were questions regarding the Emergency Plan and control of bridges. This is a new issue with bridges control.



- Eric Epstein of TMI Alert has several questions specific to water usage at Three Mile Island. These questions were specific to water infrastructure, access to and quantities of water during decommissioning and discharges.
- Rich Janati (PADEP Annuitant) had several questions:
 - There were several recent NRC Violations on the following topics and questions were asked about the details:
 - Locked High Area Control
 - Fire Protection and Combustible Material Control
- The Chairperson suggested that if questions could be provided in advance or after the meeting, the proper resources and responses could be provided to the members of the public.

VIII. The meeting was adjourned at 7:50 p.m. after a motion by Mr. Richard Kluskiewicz and a second by Mr. Devik was approved by the Panel.