



## **TMI-2 Community Advisory Panel (CAP) Meeting Minutes**

**Date:** Thursday, September 12, 2024

**Time:** 6:00pm – 7:30pm

**Location:** Hybrid, accessible via [www.tmi2solutions.com](http://www.tmi2solutions.com)

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

**Penn State Harrisburg**  
Madlyn Hanes Library, Morrison Gallery Room  
Building D  
351 Olmsted Drive  
Middletown, PA 17057-4898

### **I. Welcome and Attendance – Dave Allard, CAP Chairperson**

- In Attendance: David Allard, Todd Camp, Richard Kluskiewicz, Shen Kreiser, Tim Devik, Robert Gildea (Virtual)
- Absent: Bart Shellenhamer, Joyce Corradi, Scott Miller, Jay Ostrich, Amy Burrell
- Dave opened the meeting, conducted TMI-2 CAP roll call, and introduced the CAP organization and its functions.
- Dave acknowledged the leadership role and thanked Marie-Louise Abram the outgoing CAP Chairperson who recently retired from PSU.
- Dave also thanked Hannah Pell who served as CAP Secretary and the CAP member representing TMI-2 Solutions who resigned from the CAP panel.
- Dave also summarized the current CAP membership by name and the organizations they represented.
- Given this was the first CAP meeting for Dave Allard as the CAP Chairperson, Dave provided an overview of his experience and background which included the Pennsylvania Department of Environmental Protection's Director of the Bureau of Radiation Protection as well as his affiliation with numerous organizations specializing in Health Physics and Radiation Protection.

### **II. TMI-2 Decommissioning Project Status Update – Jason Norville, TMI-2 Operations Director**

- TMI-2 Background – TMI-2 only operated for a total of three months, beginning commercial operation on December 30, 1978, until the accident which began on March 28, 1979. Jason referred to an NRC publication which provides a more detailed background on the accident. Initial cleanup took 13 years, during which 99% of the damaged fuel was removed and transferred to the Department of Energy and shipped to a storage location in Idaho. The TMI-2 decommissioning project now must address and dispose of the remaining 1%. TMI-2 went into Post-Defueling Monitored Storage (PMDS) in 1993, and the facility was transferred into active decommissioning (DECON) in May 2023 by TMI-2 Solutions, the owner and NRC license holder of the plant.



- Project is organized in three phases. Phase 1a involved preparations for transitioning into active DECON. Phase 1b is focused on removing the last 1% of fuel bearing material (FBM) and source term reduction. This will result conditions at the site similar to a plant that did not have the accident. There are several key activities to complete during Phase 1b, including:
  - Construction of a Decommissioning Support Building (DSB) needed to process radioactive material to be removed from the Reactor Building,
  - Removal, packaging and storage of FBM,
  - Independent Spent Fuel Storage Installation (ISFSI) construction for interim storage of remaining Fuel Bearing Material,
  - Packaging and transportation of Radioactive Waste (Class A, B/C, and FBM), and,
  - Decontamination of radioactive systems and components.
- Phase 2 will be typical Decommissioning and Dismantlement (D&D) activities, site remediation or site restoration and License Termination. Phase 3 is management of the fuel bearing material that will be stored at the site.
- The Phase 1b schedule is described in the Post-Shutdown Decommissioning Activities Report (PSDAR), Revision 6 which was submitted to NRC earlier this year.
- Some of the near-term Decommissioning Activities being worked by the project are:
  - Reactor Building Air Cooler Demolition
  - Spent Fuel Pool Preparation
  - Radioactive Water Treatment, and
  - Formation of a Robotics, Instrumentation, Systems, & Tooling (RIST) Committee to pursue new technologies including chemical decontamination.
- Jason concluded his presentation by providing several recent photos of ongoing work at the site.

### **III. 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 quarterly, routine or baseline inspections. Inspections based on NRC inspection procedures specific for sites that are in decommissioning.
- The NRC Inspection results from the first and second quarter of 2024 resulted in one (1) minor violation (non-cited) for Radiation Protection (RP) practices.
- Inspection activities for the third quarter of 2024 will include a review of the TMI-2 Fire Protection Program and radiological practices. This will be conducted the week of September 23<sup>rd</sup>.
- The NRC will also be conducting inspection activities associated with the construction of the Independent Spent Fuel Storage Installation (ISFSI) pad.
- Section 106 Process – The Programmatic Agreement (PA) between TMI-2S, NRC and consulting parties from the Commonwealth of PA, which will include certain actions to preserve the history for TMI-2, is complete. This was part of the License Amendment Request (LAR) for addressing Historical / Cultural reviews of activities. The LAR was approved by NRC in August of 2024.



- Recent NRC submittals and pending licensing actions were presented at the meeting.
- Directions for receiving links for public documents for TMI-2 via E-mail.
  - Visit [www.nrc.gov](http://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)**

#### **IV. TMI-2 Environmental Monitoring Program – Mark Cambra, TMI-2 Environmental Manager**

- TMI-2S works collaboratively with Constellation who maintains and administers the Three-Mile Island site-wide environmental permits and programs which include.
  - Offsite Dose Calculation Manual (ODCM),
  - TMI Radiological Environmental Monitoring Program (REMP),
  - Groundwater Protection Program (GPP), including groundwater monitoring,
  - National Pollutant Discharge Elimination System (NPDES) Permit - Environmental Emergency Response Plan (EERP), Spill Prevention, Control, and Countermeasure Plan (SPCC), and Stormwater Management Plan (which include Erosion and Sediment Control)
- All required permits for work at the site are acquired by TMI-2S (Building permits, NPDES stormwater general permits).

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

- Bill thanked Dave for volunteering his time and efforts as Chairperson.
- The DNSRB is comprised of four (4) members.
- The goal of the DNSRB is to assess safety, radiation protection, quality assurance, training, project leadership and overall excellence at TMI-2.
- DNSRB was last on-site in June of 2024. It was a productive session with EnergySolutions (ES) executive leadership engagement and involvement from the ES Corporate Functional Area Managers (CFAMs). Areas of focus included radiation protection, regulatory compliance, training, quality assurance, safety culture, and a general review of progress on the project milestones.
- Observation is that the project is 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 fourth quarter of 2024.



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

- Amy Snyder – Senior Project Manager, NRC
  - The NRC expressed appreciation for the CAP meeting.
  - NRC regulations and inspection activities are in place to ensure the protection of public health and safety.
  - 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 appreciates open and transparent communications between the regulator and the licensee.
  - NRC spoke about the public meeting held at NRC headquarters in January of 2024 where the use of new and developing technologies will be implemented as part of the clean-up of TMI-2, were discussed.
  - NRC will be reviewing the plans and inspecting activities associated with the ISFSI and the Decommissioning Support Building (DSB) construction, as well as mock-ups for new tooling.
  - NRC is following closely the Phase 1B fuel bearing material removal and source term reduction efforts including removal of the Reactor Building air cooler removal ongoing at the site.
  - NRC discussed the decommissioning core inspections, and that each area is inspected annually per NRC regulations.
  - NRC talked about the PSDAR, Revision 6 which is being reviewed by the NRC staff and any questions will be the subject of requests for additional information (RAIs).
- Dwight Shearer – Director, PADEP Bureau of Radiation Protection (BRP)
  - DEP 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. 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 Bureau acknowledged that the site treats the department as partners/stakeholders in the decommissioning process and there was good cooperation and communication with TMI-2 Solutions on issues of interest to the Commonwealth of PA.
  - The Bureau expressed that they have a very good baseline of information/data from TMI-2 and the Island and that is of great value to the agency.



**VII. Community Advisory Panel Business & Open Discussion – David Allard, CAP Chairperson**

- TMI-2 CAP Membership
  - New Members
    - Todd Camp, Sr. Director of Administration, PSU Harrisburg
    - Robert Gildea, Superintendent of Schools, Lower Dauphin Sch. District
    - Timothy Devik, TMI-2S Licensing Manager, ES Representative
- Open Discussion and any Issues or Concerns from Members
  - Dave acknowledged the CAP and a representative from the American Nuclear Society (ANS) was in attendance and participated in a TMI-2 site tour earlier in the day.
  - Dave reminded the public that all environmental monitoring and surveillance data is on the PADEP website for public review.
  - Dave thanked the DNSRB Chairman, Bill Ostendorff for the invitation to the June site visit as an observer.
  - Dave also appreciates the monthly check-in calls with TMI-2S and their involvement in preparing for the CAP.
- Next CAP Meeting – Date TBD, with input from CAP membership
  - Potential topics include waste tracking and trends, soil/air sample results and potential project impact from TMI-1 if there is a decision to restart the unit.
- All CAP meetings will continue to be virtually accessible.
- January 18, 2024, CAP Meeting Minutes – **Approved**
- The CAP Chairperson requested that the CAP be notified of future NRC public meetings for the purpose of participating.

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

*Questions from the public are documented below. Short verbal responses were provided by TMI-2 during the meeting.*

- **Question 1:** From the Programmatic Agreement (PA), what is being donated and what is the schedule?
- **Question 2:** There was a question as to whether the Smithsonian was interested in the valve that failed/stuck open contributing to the accident and could it be donated to the museum?
- **Question 3:** Where can a member of the public get information on TMI-2?

**IX. The meeting was adjourned at 7:24 p.m. after a motion was approved by the Panel.**