



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

**Date:** Thursday, January 18, 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**  
Gallery Lounge W107 Olmsted Building  
777 West Harrisburg Pike  
Middletown, PA 17057-4898

- I. Welcome and Attendance – Marie-Louise Abram, CAP Chairperson**
  - Marie-Louise opened the meeting, conducted TMI-2 CAP roll call and introduced the CAP organization and its functions.
  - In Attendance: Marie-Louise Abram, David Allard, Shen Kreiser, Amy Burrell (virtual), Hannah Pell
  - Absent: Bart Shellenhamer, Joyce Corradi, Jim Hazen, Scott Miller, Jay Ostrich, Richard Kluskiewicz
- II. Message from the TMI-2 Decommissioning Nuclear Safety Review Board (DNSRB) – Bill Ostendorff, DNSRB Chairperson**
  - Bill thanked Marie-Louise and Dave for volunteering their efforts as Chairperson and Vice-Chairperson.
  - DNSRB was last on-site in October 2023. It was a productive session with EnergySolutions executive leadership. Areas of focus included training, use of mockups, safety culture, and radiation protection.
  - Observation is that the project is responsive to DNSRB concerns, including implementing actions related to the safety culture and use of technology to aid in decontamination efforts. Next DNSRB visit is scheduled for June 2024.
- III. TMI-2 Decommissioning Project Status Update – Frank Eppler, TMI-2 Deputy Project Director**
  - Frank noted that some information in the Decommissioning update is repeated to benefit new CAP meeting attendees.
  - TMI-2 Background – TMI-2 only operated for three months, which has some benefits with less radionuclides, but was a shame for the industry and the community that TMI-2 couldn't continue to produce carbon-free power. Initial cleanup was 13 years, through which 99% of the damaged fuel was removed. The project now has to deal with the remaining 1%. TMI-2 went into Post-Defueling Monitored Storage in 1993, and the facility was transferred into active decommissioning (DECON) in May 2023 with the goal of a green field.
  - Project is organized in three phases. Phase 1a involved preparations for transitioning into active DECON. Phase 1b is unique for TMI-2, the focus is on removing the last 1% of fuel bearing material. There is a subset list of 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, which will be packaged and shipped appropriately.

- The select remaining debris will be stored onsite at the TMI Independent Spent Fuel Storage Installation (ISFSI). This material is owned by the Federal government and will eventually be transported offsite when a Federal waste repository is available. The TMI ISFSI is shared between both units.
- Phase 1b is a dynamic portion of the project. Given the unique radiological conditions, the project expects that the schedule and budget will change. This information is maintained through the Post-Shutdown Decommissioning Activities Report (PSDAR). All the work is funded by the Nuclear Decommissioning Trust Fund, and we are responsible for being good stewards of that fund.
- Some of the project planning includes use of mockups, which allow workers to practice doing the planned work prior to doing so within the Reactor Building to minimize dose. Safety is the number one priority, and in nuclear it's important that employees can raise concerns and questions, and one way to do so is through the Employee Concerns Program.
- It is required that the project maintains a Corrective Action Program to address problems or issues and mitigate them. The Corrective Action Program is important throughout the nuclear industry, and healthy programs have constant improvement.
- Frank gave verbal descriptions of the work pictured and the videos, including the Equipment Hatch enlargement, the Reactor Vessel inspection, and Spot (Robot Dog) and drone collecting survey data in the Reactor Building.

#### **IV. Regulatory Update – Joe Lynch, Regulatory Affairs Director (D&D)<sup>1</sup>**

- Joe begins by introducing himself as the new Regulatory Affairs Director in charge of EnergySolutions' two decommissioning projects: Kewaunee and TMI-2.
- TMI-2 activities are monitored by the NRC through reviews of our documents and onsite inspections. Inspections are routine and based on the NRC inspection program for decommissioning. During next week's inspection, the NRC will be looking at problem identification and resolution, as well as safety reviews, design changes, and how the project is implementing engineering modifications.
- Section 106 Process – Developing the Programmatic Agreement which will include certain actions to preserve the history for TMI-2. Expectation is that the process will be wrapped up by the end of this year, then the NRC can finalize reviews and approvals of the amendment request.
- There have been a number of licensing activities since the last CAP meeting related to Section 106, the Post-Shutdown Decommissioning Activities Report (PSDAR), and Security. There will be several upcoming submittals due by the end of March related to property insurance, the Decommissioning Trust Fund status, and the PSDAR.
- Directions for receiving links for public documents for TMI-2 via E-mail.

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<sup>1</sup> D&D is a catch-all acronym used to describe a variety of terms related to the decommissioning process, including Decommissioning, Decontamination, Dismantlement, or Deactivation.



- i. 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)

**V. TMI Emergency Plan Overview – Frank Eppler, TMI-2 Deputy Project Director**

- The TMI Emergency Plan (E-Plan) is for the entire island, both units. Constellation owns the E-Plan and TMI-2 subcontracts with Constellation to manage it.
- Since TMI-1 has removed all spent fuel and placed it on the TMI Independent Spent Fuel Storage Installation (ISFSI), it is an ISFSI-only E-Plan. For TMI-2, limited radiological source term and administrative controls on allowed activity and storage of radiological materials result in no credible accident scenario that would exceed any Emergency Action Level (EAL) thresholds.<sup>2</sup>
- If a notification would need to be made, TMI-2 would notify local government agencies in coordination with TMI-1. The Pennsylvania Emergency Management Agency (PEMA) is the lead agency.
- There are facilities onsite and contacts within the E-Plan for offsite support services. Yearly drills with offsite support organizations are required (EMS and Hershey Medical Center, Londonderry Volunteer Fire Department, Pennsylvania State Police).

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

- Dwight Shearer – Director, PADEP Bureau of Radiation Protection (BRP)
  - i. Bryan Werner (Program Manager, Decommissioning and Environmental Surveillance, PADEP BRP) gave remarks on behalf of Dwight.
  - ii. DEP does not 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 daily meetings, site visits, attend DNSRB meetings on a routine basis, and BRP has monthly calls with NRC.
  - iii. BRP maintains a comprehensive environmental monitoring program and the role of emergency response. At TMI, there are no longer conditions that would require an offsite response, but BRP remains ready in case an onsite response is needed.
- Amy Snyder – Senior Project Manager, NRC
  - i. Two licensing actions are underway, the License Amendment Request for historic and cultural reviews and the PSDAR. The Section 106 process which will result in a Programmatic Agreement to cover various means of historic preservation. The PSDAR, which is a strategy document, requires additional information, and the NRC is looking forward to the additional information to be provided by the end of March.

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<sup>2</sup> Emergency Plans for operating nuclear power plants contain EALs, which are site-specific, observable triggers for placing a plant in a classification such as an Unusual Event, Alert, Site-Area Emergency or General Emergency. More information on the NRC's website: <https://www.nrc.gov/about-nrc/emerg-preparedness/about-emerg-preparedness/emerg-action-level-dev.html>



- ii. The NRC inspection program is rigorous, and members of the public should look at the inspection reports, which give insights into what the NRC is looking at as well as recommendations.

**VII. Community Advisory Panel Business & Open Discussion – Marie-Louise Abram, CAP Chairperson; Hannah Pell, TMI-2 Regulatory Affairs/CAP Secretary**

- Two openings for new CAP members
  - i. CAP members represent a broad base of the local community and various viewpoints and interests.
  - ii. Nominations can be submitted to Marie-Louise ([mla9@psu.edu](mailto:mla9@psu.edu)) or Hannah Pell ([hepell@energysolutions.com](mailto:hepell@energysolutions.com))
  - iii. Vote on September 2023 Meeting minutes – **Approved.**
- **Upcoming CAP Meetings:**
  - i. Tuesday, April 23, 2024 – 6:00pm-7:30pm (Hybrid)
  - ii. Thursday, September 12, 2024 – 6:00pm-7:30pm (Hybrid)
  - iii. All CAP meetings will continue to be virtually accessible.

**VIII. Public Question and Answer Period – Marie-Louise Abram, CAP Chairperson; Hannah Pell, TMI-2 Regulatory Affairs/CAP Secretary**

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

- **Question 1:** Will all the decommissioning work be done through remotely used equipment? How much of it is remote controlled?
- **Question 2:** Will you be using 'nuclear jumpers'? Also, I teach a course on energy and the environment, can I bring my students for a tour?
- **Question 3:** Does TMI-2 have a process or procedure in place to cover Events of Potential Public Interest (EPPIs) as part of communications related to the Emergency Plan?
- **Question 4:** I understand there is one Emergency Plan for the entire Three Mile Island site, is there EnergySolutions staff qualified to act as Emergency Director if needed?
- **Question 5:** As far as radiation levels go, TMI-2 is very unique. Have you found anything that is a surprise to you?
- **Question 6:** One repeated question I get from individuals is where the original 99% of accident core debris went. How was it removed and where did it go?
- **Question 7:** As a follow up to drills with local fire and EMS companies, would you be open to tours with specialized response teams (e.g., Hazmat?). Given the nature of the work I could see drills with those teams being useful.
- **Question 8:** When all is said and done, is there any hope for putting a new reactor on the site?
- **Question 9:** Just today the Federal government allocated \$1billion for Diablo Canyon. What would be the impact on TMI-2 if TMI-1 would restart?