

**TMI-2 CAP Mtg. Minutes**  
**4 August 2021**  
**2 pm to 3:30 pm**  
**Virtual Mtg. (Teams)**

- 1. Call to order – Ralph DeSantis, TMI-2 Communications**
- 2. CAP Member Roll-call – Ralph DeSantis**
  - a. Not present: Jim Hazen (Lower Dauphin School District), Nick DiFrancesco (Dauphin County), Jay Ostrich (U.S. Congressman Scott Perry’s office), Joyce Corradi (Concerned Mothers of Middletown)
- 3. Approval of April 7, 2021 CAP Mtg. minutes – Ralph DeSantis**
  - a. Mary-Louise Abram motioned for approval, Richard Kluskiewicz seconded. Meeting minutes approved.
  - b. Previous CAP meeting minutes will be posted to the TMI-2 Solutions website once approved.
- 4. Decommissioning Update - Frank Helin, TMI-2 Project Director**
  - a. Frank Helin began with a reminder that TMI currently has two owners and licensees between both units and the current focus is on planning for the next phase of decommissioning.
    - i. TMI-2 *Solutions* is assembling detailed plans including updated data and measurements as well as an evaluation of the turbine building cleanup to prepare for the physical work ahead.
  - b. *Cooling Tower Demolition*: The cooling tower demolition has been rescheduled for next year (late 2022). Reasons for delay: fewer staff on-site, reduced security footprint; TMI-1 fuel will be out of the spent fuel pools and in dry storage
    - i. Ralph DeSantis noted that TMI-2 *Solutions* would like advice from CAP on communications surrounding demolition plans.
  - c. *Programs & Procedures*: There are plant and site specific requirements for TMI-2. So far 20 of 24 documents have been issued and procedure development is 34% complete. Staff training is currently underway.
  - d. *Labor*: TMI-2 *Solutions* is beginning to have a full-time on-site labor presence, with union labor mobilizing during Summer 2022. On-site workers are primarily located in the North Office Building, although additional facilities have been identified.
  - e. *Turbine Building*: Recent drone flights have taken additional measurements and captured new footage in the TMI-2 reactor building basement, which was last seen in 1978.
    - i. George McCarty explained that the drone is equipped to detect dose rates, which are compared against PDMS surveys from 1992-1993. Drone

detection data verified that current information is accurate adjusted for a 30 year time period.

- ii. A hot spot of approximately 400 rem/hr was detected due to the porousness of cement trapping contaminants as a result of the initial reactor basement flooding. However, the floor is fairly free of debris.
  - 1. Marie-Louis Abram asked if the dose rates indicate that TMI-2 *Solutions* is not concerned about the cleanup. George McCarty explained that the main concern for the community is the potential spread of contamination from the building.
- iii. Marie-Louis Abram asked if the workers shown in the drone footage video are in the contaminated building. George McCarty clarified that workers are flying the drone on the level above the basement in an area about 15-25 millirem/hr, as opposed to 3000-10,000 millirem/hr in the basement.
  - 1. Frank Helin explained that there are planning procedures anytime a potentially contaminated area is entered. TMI-2 *Solutions* plans the workers to be located in low-dose areas and robotics are deployed for high-dose areas. High-dose debris will be safely packaged and stored, eventually transported off the island. Workers are exposed to the lowest doses possible, and there are exposure limits according to the NRC.
  - 2. Richard Kluskiewicz notes that the numbers are expected and he was involved in the initial surveys.
  - 3. George McCarty clarifies that more areas needed to be surveyed in the reactor building.
- iv. Curt Miner asks why the radiation levels would be expected to drop in years between the surveys.
  - 1. George McCarty explains that this is due to the half-life of radioactive isotopes. Cesium 137 is the predominant isotope at TMI with a half-life of approximately 30 years. Based on the quarterly PDMS surveys from Exelon, the data trends are in accordance with Cesium 137 half-life.
- f. *Drone footage:* TMI-2 *Solutions* is working on an interactive building model with updated characterization data. Drone footage provides valuable spatial information needed for decommissioning.
  - i. Ralph notes that at the time of the accident, there was about 6-7 feet of water in the basement. During cleanup, water was pumped out, processed, and cleaned up.
    - 1. Rich Janati asks if there has been any groundwater intrusion. Frank Helin isn't aware of any but will verify.

- ii. Frank Helin highlights core bores in the next phase to determine how deep the water saturation is in the cement walls.
- iii. Rad waste hasn't been shipped yet. Currently TMI-2 Solutions is actively planning to ensure each bit of waste is accounted for and aren't expecting any GTCC ("greater than class C") waste.

**5. Gerry van Noordennen – Sr. VP Regulatory Affairs**

- a. TMI-2 *Solutions* is actively working with the NRC and PADEP to share information and keep lines of communication open.
  - i. NRC inspection report issues June 22, 2021 - no violations or open items for TMI-2.
  - ii. TMI-2 *Solutions* is providing quarterly reports to the PADEP.
- b. Pending approvals - license amendment requests, Unit 2 will have its own security program to protect radioactive material (need to separate from Unit-1)
- c. TMI-2 Solutions conducted tours with representatives from the PA Historical and Museum Commission (PHMC), Smithsonian American History Museum, and the PA State Archives and received a list of artifacts including pieces of the control room provided to museums for future exhibits.
  - 1. Curt Miner shared that he appreciated the opportunity, the PA State Museum is interested in collecting and preserving important PA stories and the lasting impact of TMI on Pennsylvanians.
  - 2. Dave Shoff shared that he loved the tour. The PA State Archives took in over 200 audio and video tapes to be digitized and preserved.
- d. Regarding recent press about compliance with the Clean Water Act, Gerry van Noordennen notes that TMI-2 *Solutions* has received no contact over potential compliance issues, but if contacted, the issue will be addressed immediately.

**6. Decommissioning Nuclear Safety Advisory Board Update – Bill Ostendorff, Chm.**

- a. The DNSRB had a good onsite meeting on June 7. There were DEP reps present. The DNSRB has asked ES/TMI2 to give us a heads-up on future events.
- b. The next DNSRB meeting will be virtual on September 29 in order to plan for the next onsite meeting December 6 and 7.
- c. Energy*Solutions* has been very transparent with our questions.
- d. Larry Camper notes that he enjoys the opportunity to observe CAP meetings. We often take the communication we're accustomed to for granted, and it's important that we stop and explain the terminology we use all the time.
- e. Greg Halnon was intrigued by the question addressing ground water in containment, noting that there is a serious issue behind the question -- is the containment fully contained?
- f. Ralph DeSantis encourages everyone to go to the TMI-2 *Solutions* website (<https://www.tmi2solutions.com>) to learn more about the DNSRB.

**7. PADEP Update – Dave Allard, Director, PA Bureau of Radiation Protection**

- a. The PA DEP has a strong mission of environmental protection. NRC is the primary regulator, and there are routine calls between the NRC and PADEP.
  - i. PADEP employees involved in TMI-2 decommissioning:
    - 1. Rich Janati - former division chief for nuclear safety
    - 2. Steve Acker - new division chief, worked on island for number of years
    - 3. Sandy Martin
  - ii. PADEP will be moving environmental surveillance closer into TMI-2, bringing air sampling equipment back to Unit-1, and installing radiation detectors around spent fuel storage.

**8. TMI-2 tour experience – Hannah Pell, CAP member**

- a. Hannah Pell shared her three main takeaways from joining the DNSRB for the on-site tour.
  - i. *Weight of history*: seeing the control room was like stepping back in time, reminded of the importance of communicating not only what decisions are made, but why for the future of the decommissioning.
  - ii. *Legacy of safety and risk management*: Tour was an opportunity to see how safety and risks are analyzed in real time; our job to navigate mistrust as intertwined with safety concerns.
  - iii. *TMI community*: Meeting folks behind the decommissioning work expanded understanding of “community” and reiterated the importance of learning from those who have worked for TMI as we aim to increase accessibility to the technical aspects of the process.

**9. TMI-2 drone video – Mark Walker, VP, Comms & Marketing, EnergySolutions**

**10. TMI Charity Golf Tournament – Ralph DeSantis**

- a. Thursday, 12 August 2021 at Sunset Golf Course in Middletown.
- b. Bart Shellenhammer shared appreciation for the tournament (going for 15 years now) and noted that the donations will significantly help the Londonderry Volunteer Fire Department.

**11. Open discussion for CAP members – Ralph DeSantis**

**12. Discuss date, time location and agenda for next CAP meeting – Ralph DeSantis**

- a. Tentatively planning for an in-person meeting at Middletown High School in early December to overlap with the next scheduled on-site DNSRB meeting.

**13. Public comment/questions – Ralph DeSantis**

**14. Adjourn**