



Meeting Minutes Approved by TMI-2 CAP on 15 June 2022

## TMI-2 CAP Meeting Minutes

**Date:** Tuesday, December 7th, 2021

**Time:** 6:00 – 7:30 pm

**Location:** Middletown Area High School Cafeteria & Virtually via [www.tmi2solutions.com](http://www.tmi2solutions.com)

### I. Welcome, Steve Letavic (CAP Chair)

- a. Steve Letavic acknowledged Ralph DeSantis for his decades of work for Three Mile Island and for organizing the CAP.
  - i. Hannah Pell (TMI-2 Licensing & Communications) is now serving as the TMI-2 Solutions representative on the CAP.
- b. CAP Member Attendance:
  - i. Not Present: Jim Hazen, Jay Ostrich, Amy Burrell, Dominick DiFrancesco, Richard Kluskiewicz, Joyce Corradi, David Shoff
  - ii. Present In-Person: Hannah Pell, Bart Shellenhamer, Marie-Louise Abram, Shen Kreiser
  - iii. Present Virtually: Steve Letavic, Curtis Miner, Scott Miller

### II. Decommissioning Status Update, Frank Helin (TMI-2 Solutions Executive Project Director)

- a. Major Activities:
  - i. 42 people have mobilized to the site. Infrastructure has been upgraded accordingly (offices, computer networks, communications, etc.)
  - ii. Program and procedure development underway.
  - iii. Major procurements and subcontractors include fuel material casks and vessel and large components cutting.
  - iv. Preplanning for characterization of the Reactor Building (RB) using drone inspections and the Building Information Model (BIM).
- b. Drone Inspection of RB:
  - i. Drones with on-board radiation detection capabilities were utilized for visual inspection and general area radiation readings.
  - ii. Drone Flight Videos
- c. Building Information Model (BIM):
  - i. Interactive map that provides PDMS radiological and characterization data.
  - ii. Useful tool for tracking decontamination progress, especially leveraging the contamination mapping and preplanning controls features.
- d. Readiness for Decommissioning & Near-Term Activities:
  - i. Lead Material Recycling.
    - 1. Started work the week of 8 November 2021.
    - 2. First shipment occurred on 29 November 2021 and there will be 6 total shipments.
    - 3. Total weight shipped expected to be about 210,000 lbs.
    - 4. Project is expected to be done on or before 20 December 2021.
  - ii. Water Transferring Activities



1. Planning to transfer approximately 2,250 gallons of water from the Miscellaneous Waste Holdup Tank (MWHT) to the T-3 Poly Tank on December 2021. Sample will be obtained on 7 December 22021 after water has circulated for 6-8 hours.
  2. Bulk liquid tanker to be brought in on 8 December 2021 for transfer and shipment of approximately 3,750 gallons to off-site processing facility. Will be repeated the following week (15 December 2021).
  - iii. Dry Cask Storage Canister Procurement
    1. NAC International has been selected.
    2. Contract includes:
      - a. Physical components
      - b. Construction and demolition of temporary Vertical Concrete Cask (VCC)
      - c. Lease of auxiliary and ancillary equipment required for operations
      - d. Engineering and licensing work to obtain NAC International CoC with TMI2 Fuel Bearing Material (FBM).
      - e. Welding operations during canister closure.
      - f. Site support during FBM loading into waste basket liners.
  - e. Partnership with National Laboratory
    - i. Fuel Bearing Material Detection Strategy.
    - ii. Benefits include increased fidelity of Engineering Assessments, reduced risk of incorrectly estimating waste characterizations, and independence of national lab improves regulator confidence with method.
    - iii. Discussions with Idaho National Laboratory, Oak Ridge National Laboratory, EPRI, and several commercial vendors.
  - f. Planning for Phase 1B
    - i. 228 discrete activities inputted into schedule by 31 October 2021 deadline.
    - ii. Cut and packaging plans need development.
  - g. Environmental Update
    - i. TMI-2 *Solutions* is continuing environmental monitoring under Exelon according to the Post Defueling Monitored Storage Services (PDMS) agreement. Also working with Exelon on air, water and discharge permits which need to be modified to support decommissioning in Summer 2022.
    - ii. Program and procedure development for post-PDMS is in progress.
    - iii. Environmental leadership roles have been filled.
  - h. Shared scope completed this quarter and summarized scope planned for next quarter.
- III. Regulatory Update, Gerry Van Noordennen (Senior Vice President of Regulatory Affairs, Energy Solutions)**
- a. PDMS to DECON License Amendment Request (LAR) Status
    - i. Initially submitted to the Nuclear Regulatory Commission in February 2021 with a Supplemental Submittal on Criticality submitted 5 May 2021.



- ii. Initial Submission: “Three Mile Island, Unit 2, License Amendment Request Decommissioning Technical Specifications,” ADAMS Accession # ML21063A446.<sup>1</sup>
- iii. Supplement: “Three Mile Island, Unit 2, Supplemental Information to License Amendment Request Decommissioning Technical Specifications,” ADAMS Accession # ML21133A264.
- b. TMI-2 Security License Amendment Request Status
  - i. Submitted in May 2021 to maintain proper security controls for radiological material.
  - ii. Supplemental submittal on 21 September 2021 amending current license to indicate compliance with 10 CFR Part 37, “Physical protection of category 1 and category 2 quantities of radioactive material.”
    - 1. “Three Mile Island, Unit 2 – License Amendment Request – Revised License Condition 2.C.(2) Physical Protection – Supplemental Information,” ADAMS Accession # ML21267A505.
  - iii. Core debris to be stored at the ISFSI will be maintained under high security.
- c. Emergency Plan License Amendment Request Status
  - i. ISFSI-only (“Independent Spent Fuel Storage Installation”) Emergency Plan submitted for TMI site in March 2021.
    - 1. “Three Mile Island Nuclear Station – License Amendment Request – Proposed Changes to the Three Mile Island Emergency Plan for Independent Spent Fuel Storage Installation Only Emergency Plan and Emergency Action Level Scheme,” ADAMS Accession # ML21063A446.
  - ii. Pennsylvania Department of Environmental Protection (PADEP) noted a disconnect between TMI-1 Emergency Plan Submittal and TMI-2 *Solutions* LAR to proceed to decommissioning. TMI-2 *Solutions* is currently working with TMI-1 to resolve.
- d. Records Exemption Status
  - i. On 5 October 2021, TMI-2 *Solutions* submitted an exemption to the NRC requesting relief from some of the record keeping requirements for the life of the license. (i.e. eliminating requirements for abandoned equipment).
    - 1. “Three Mile Island Nuclear Station, Unit 2 (TMI-2) – Request for Exemption from Record Retention Requirements, ADAMS Accession # ML21279A278.
    - 2. Will continue to maintain historical records regarding the 1979 TMI-2 accident and records required by insurance companies.
  - ii. Pursuant to NRC Orders dated 22 May 1979 and 6 August 1982, TMI-2 *Solutions* is preparing a Supplemental Letter committing TMI-2 *Solutions* to preservation of such records.
    - 1. 1979 NRC Order: “Order requiring preservation of all records re TMI by all parties directly involved w/util. Records are to be preserved

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<sup>1</sup> ADAMS (Agencywide Documents Access and Management System) is the official recordkeeping system through which the Nuclear Regulatory Commission provides access to collections of publicly available documents. Visit [www.adams.nrc.gov/wba/](http://www.adams.nrc.gov/wba/) and search using Advanced Search > Property > Accession Number to find the above regulatory documents.



until released by NRC authorities or order.” ADAMS Accession # ML19224A835.

- iii. NRC Inspection Status
  - 1. NRC Inspection Report issued June 22, 2021.
    - a. “TMI-2 *Solutions*, LLC, Three Mile Island Nuclear Station, Unit 2 – NRC Inspection Report 05000320/2021003, ADAMS Accession # ML21172A259.
  - 2. No violations or issues were identified.
  - 3. Next inspection report expected early 2022.

**IV. Preservation Efforts, Hannah Pell (EnergySolutions Licensing Engineer & TMI-2 Communications)**

- a. Videotape Donations to PHMC
  - i. TMI-2 *Solutions* donated more than 200 videotapes to the Pennsylvania Historical and Museum Commission (PHMC) for permanent preservation under the PA State Archives.
  - ii. PA Archives will manage and care for the materials and make records open and available to the public.
  - iii. Videotapes recovered from the PDMS Library and include post-accident re-entry footage and cleanup activities.
- b. Historic Preservation: Section 106 Process
  - i. The Section 106 Process is part of the 1966 National Historic Preservation Act which requires that each federal agency identify and assess the effects its actions may have on historic buildings.
  - ii. TMI-2 was determined to be eligible for the National Register of Historic Places status in 2010 by the PA State Historic Preservation Office (SHPO).
  - iii. TMI-2 *Solutions* has contracted with Michael Baker International to conduct a cultural resources review including on-site property assessments as part of the Section 106 review process.
    - 1. More information on the Section 106 process can be found here: <https://www.achp.gov/protecting-historic-properties/section-106-process/introduction-section-106>.

**V. PADEP, Dave Allard, CHP (Director, PA Department of Environmental Protection Bureau of Radiation Protection)**

- a. Dave Allard shared his educational background and health physics trained and noted that he’s a neighbor to Three Mile Island.
- b. The PADEP has been focused on the spent fuel pool move at Unit-1 but is making plans for additional radiation monitoring as Unit-2 decommissioning transitions into Phase 1B.
- c. PADEP has maintained offsite monitoring for decades and the annual reports are available on the PADEP website. ([www.dep.pa.gov](http://www.dep.pa.gov))
- d. The PADEP Nuclear Safety Specialist has retired, and PADEP is backfilling the position as radiological health physicist and moving the role to the decommissioning division from the nuclear safety division.



**VI. DNSRB On-Site Visit Update, Bill Ostendorff (DNSRB Chair)**

- a. Bill Ostendorff emphasized the importance of an effective CAP and that the DNSRB supports public outreach efforts.
  - i. “Coordination and interaction with a citizens advisory panel provide an opportunity to enhance public awareness and trust in the decommissioning process. Stakeholder involvement can also influence the overall decommissioning process and foster trust between the project and the public,” wrote DNSRB member Larry Camper in Nuclear Newswire, published on 7 December 2021. <https://www.ans.org/news/article-3376/maximizing-decommissioning-lessons-learned/>
- b. Bill also summarized the role of the DNSRB as an independent advisory board throughout the TMI-2 decommissioning process.

**VII. CAP Officer Appointments**

- a. Vice Chairperson: Marie-Louise Abram
  - i. Responsibilities per the CAP charter:
    - 1. The inaugural Vice Chairperson will serve a two-year renewable term. Subsequent vice chairpersons will be elected by a majority vote of the CAP.
    - 2. Vice Chairperson will perform all duties of the Chairperson in his/her absence.
- b. Secretary: Hannah Pell
  - i. Responsibilities per the CAP charter:
    - 1. Develop meeting agendas in consultation of CAP Chairperson/CAP members and approval of the TMI-2 Communications Manager.
    - 2. Distribute meeting agendas to the CAP members and TMI-2 Communications Manager.
    - 3. Record CAP meeting attendance and determine whether a quorum is present.
    - 4. Record minutes of CAP meetings and prepare minutes for CAP approval.
    - 5. Transcribe notes, copy documents, compile, mail and/or email CAP documents, support meeting logistics, maintain CAP documents and meeting materials and ensure document availability to the public by providing copies of meeting-related materials to the TMI-2 Communications Manager for inclusion on the project website.
    - 6. Provide administrative support to the CAP as needed.

**VIII. CAP Open Discussion**

- a. Vote on August 2021 Meeting Minutes
  - i. First motion by Marie-Louise Abram, second motion by Bart Shellenhamer.
  - ii. Approved by voice vote.
- b. No questions from in-person or CAP members.

**IX. Community Participation/Q&A, Steve Letavic and Hannah Pell**

- a. No final questions from in-person or virtual audiences.