



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Office of Waste, Air, Radiation & Remediation

Three Mile Island Unit 2 Decommissioning

Low-Level Waste Advisory Committee Meeting

September 29, 2023

Bryan Werner

Decommissioning and Environmental Surveillance Manager
Bureau of Radiation Protection

Josh Shapiro, Governor

Richard Negrin, Secretary

BRP's Involvement

- This presentation is from the viewpoint of the Bureau of Radiation Protection (BRP)
- BRP does not have regulatory authority of the radiological licensed activities for the decommissioning. That role is with the Federal Nuclear Regulatory Commission (NRC)
- The Radiation Protection Act (Act 147) requires us to maintain a comprehensive nuclear safety oversight and environmental monitoring Program around nuclear power plant sites in PA

TMI Status – Unit 1

- Owned by Constellation
- Shut down September 2019
- Fuel moved to ISFSI December 2022
- Remains in SAFSTOR until 2075
- License Termination 2079
- Site Restoration 2081

ISFSI - Independent Spent Fuel Storage Installation

SAFSTOR - A long-term storage condition for a permanently shutdown nuclear power plant

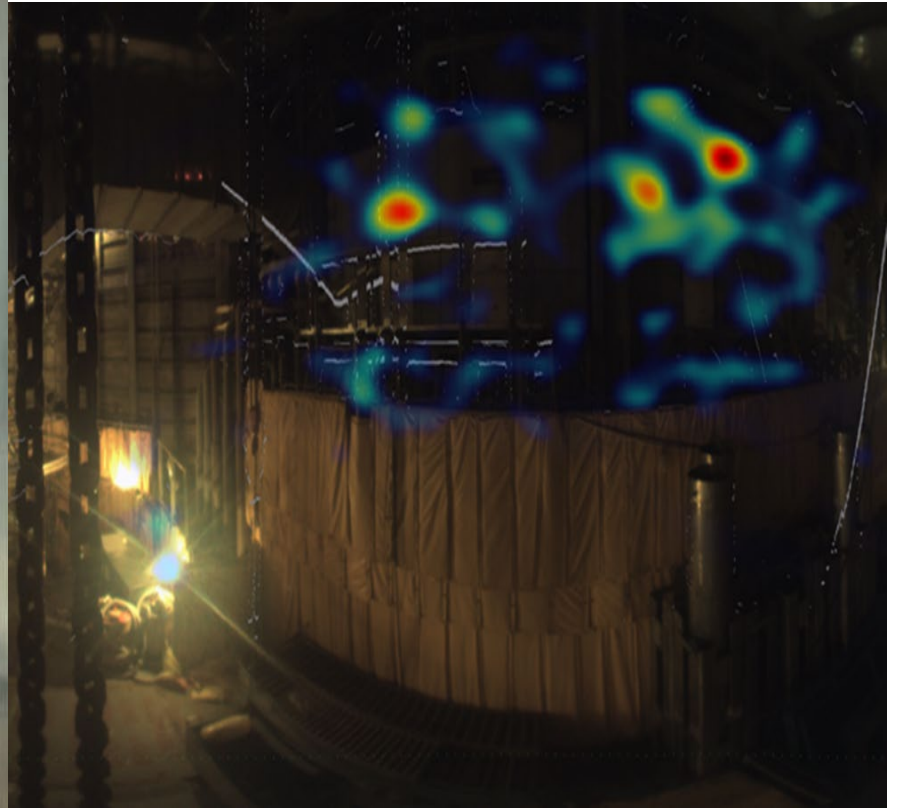
TMI Status - Unit 2

- Owned by TMI-2 Solutions
- Partnered with Jingoli to help manage the decommissioning construction aspects
- Transitioned to active decommissioning earlier this year
- This phase is for the recovery of the fuel bearing material and source term reduction
- Expected to last into 2029

TMI Status - Unit 2

- Fuel Bearing Material to be stored on ISFSI pad adjacent to Unit 1 until DOE will take possession
- Additional radiological source term reduction in this phase will see waste of various types packaged and shipped offsite for disposal
- The first low-level radioactive waste shipments were made the week of August 14
 - Segmented sections of a Core Flood Tank
- Credit and thanks to TMI-2 Solutions for providing pictures of there operations in the next few slides

TMI 2 Photos



TMI 2 Photos



TMI 2 Photos



TMI 2 Photos



TMI 2 Photos



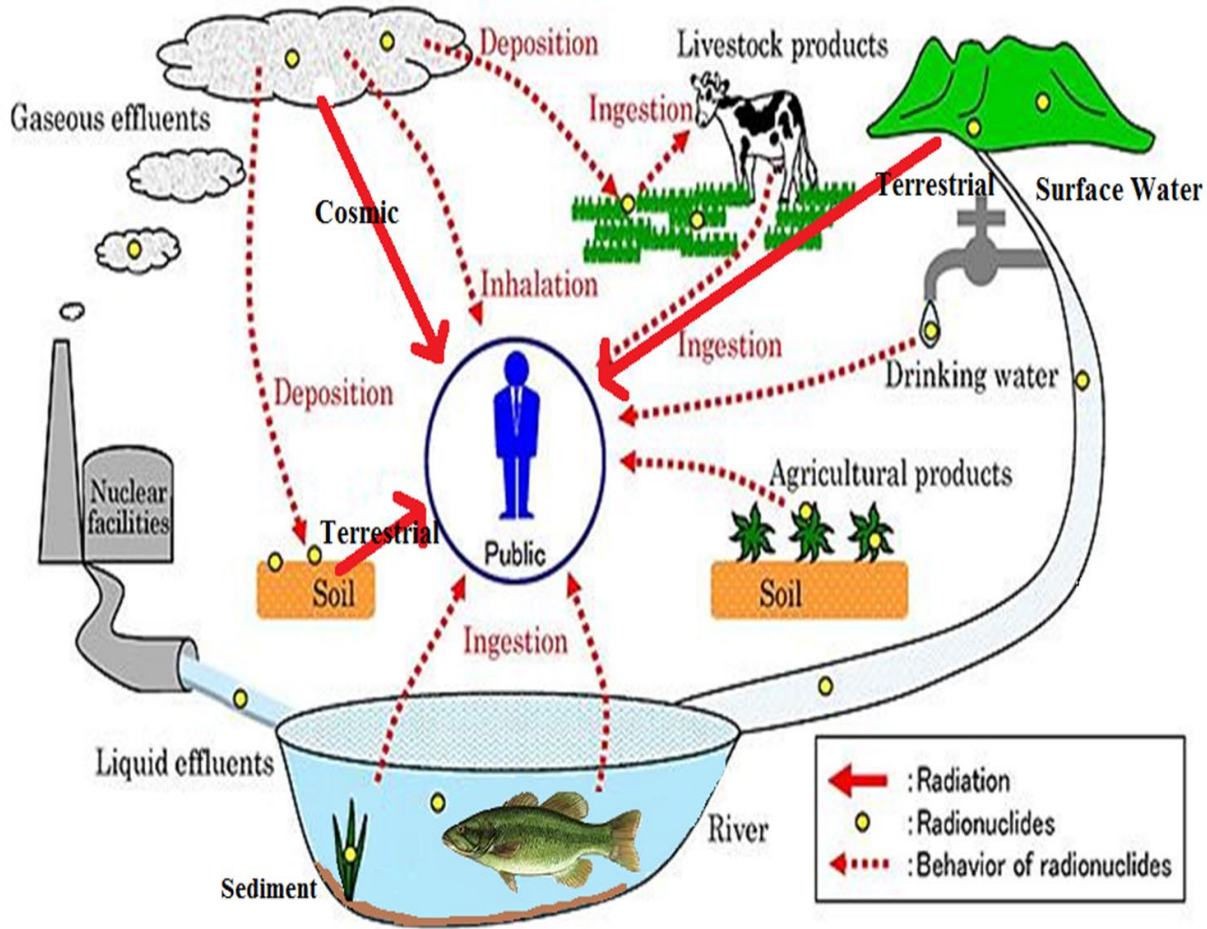
▶ Bureau of Radiation Protection's Role

- Continuing to perform our routine Radiological Environmental Monitoring Program (REMP)
- Changes will be evaluated based on both unit's future REMP
 - Currently BRP's and Constellation's monitoring remains as if Unit 1 were still an operating plant
 - Unit 2 has a focused monitoring mostly in the areas of work

REMP Photos



REMP Photos



▶ Bureau of Radiation Protection's Role

- Participates in routine meetings associated with the TMI2 cleanup including:
 - Daily Plan of the Day calls
 - Monthly meetings with NRC's project staff and inspectors
 - Decommissioning Nuclear Safety Review Board meetings
 - Community Advisory Panel meetings
 - Facilitate as needed between TMI2 and other regulatory part of the Department



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Office of Waste, Air, Radiation & Remediation

Thank you. Questions?

Bryan Werner, Program Manager

Bureau of Radiation Protection

Department of Environmental Protection

717-783-8979