



Crane Clean Energy Center

Environmental Presentation

March 20, 2025

Introductions

- Constellation
 - Allison Stalker – Principal Environmental Specialist, Crane Restart
 - Zigmund Karpa - Director, Environmental Programs
 - Jim Barstow - Director, Corporate Licensing
 - Craig Smith - Senior Manager Regulatory Assurance, Crane Clean Energy Center
 - Dennis Moore - Senior Manager, Corporate Licensing
 - Deb Musser – Manager Environmental Programs, Corporate Environmental
 - Jason Zorn - Associate General Counsel
 - Alyssa Hockaday – Environmental Specialist, Crane Restart
 - Hannah Pell – Regulatory Specialist, Crane Clean Energy Center



Agenda

- Meeting Purpose/Goal
- Plant Overview
- Current Plant Status
- Planned Restart Activities
- Station Aerial
- Vicinity Map
- Current Status of the Site Major Environmental Permits and Operations
- Current Operations
- Path Forward
- Permit Timeline

Meeting Purpose and Goal

- Purpose:
 - Provide overview of site
 - Discuss path forward for NRC National Environmental Policy Act (NEPA) review
 - Discuss the timeline for restart and environmental permit reestablishment
- Goal: Gain understanding and NRC feedback on process for NRC's NEPA review

Overview

- Three Mile Island, Unit 1 commenced commercial operation in 1974
- License renewal granted in October 2009 with the current Operating License expiring in 2034
- Due to market conditions, reactor shut down for retirement on September 20, 2019
- On September 20, 2024, Constellation announced our intention to restore Three Mile Island, Unit 1 to commercial service and have signed a 20-year power purchase agreement (PPA) with Microsoft
 - Will rename to Crane Clean Energy Center
- On October 25, 2024, Constellation presented the Crane Clean Energy Center restart overview and regulatory path
- On November 19, 2024, Constellation submitted its request for exemption from 10 CFR 50.82(a)(2), officially notifying NRC of Constellation's intention to return Crane Clean Energy Center to power operation

Current Plant Status

- All spent fuel transferred to Independent Spent Fuel Storage Installation (ISFSI)
- Spent fuel pool is drained with cover in place
- Major systems status:
 - Most major plant systems have been drained and deenergized
 - No major plant components have been removed
- Reactor coolant system status:
 - Loops drained and vented
 - Reactor vessel filled with water covering internals
 - Reactor vessel head installed
- Once Through Steam Generators (OTSGs) placed in long-term layup
- Main generator placed in long-term layup

Planned Restart Activities

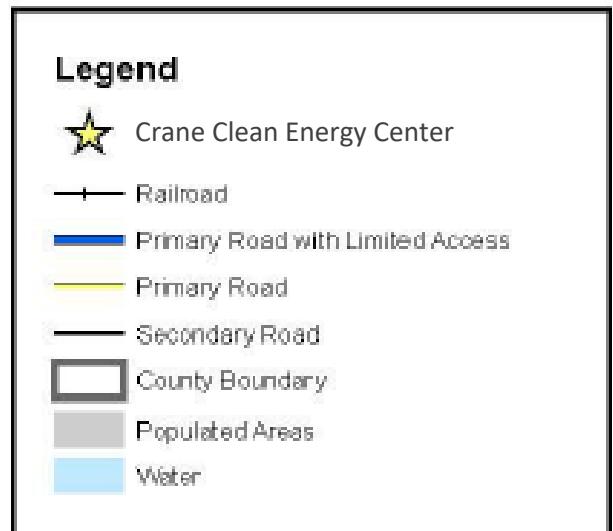
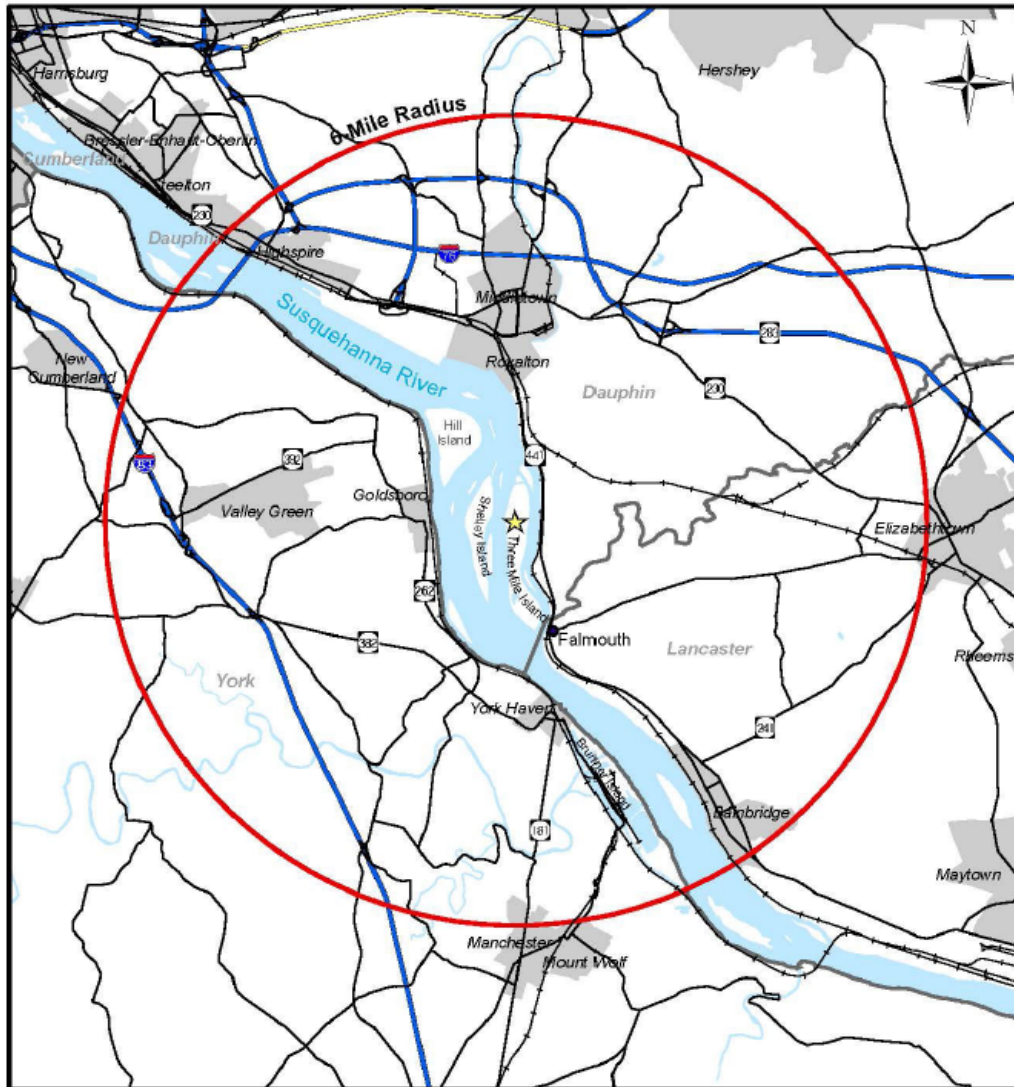
- Plant will be restored to previous operating license condition at 2019 shutdown, to the extent possible
- No major demolition activities or new building construction anticipated
- Known plant modifications
 - ‘B’ Natural Draft Cooling Tower
 - Reactor Building industrial coolers
 - Underground diesel fuel oil storage tank

Station Aerial

- Crane is owned and operated by Constellation, the licensee.
- The Crane site is approximately 472 acres, located on Three Mile Island, which is situated in the Susquehanna River, in Londonderry Township of Dauphin County, Pennsylvania.
- Constellation owns the entire island except Unit-2 facilities and the footprint beneath these facilities.



Vicinity (6-Mile) Map



Current Status of the Site Major Environmental Permits and Operations

- National Pollutant Discharge Elimination System (NPDES)
 - Constellation is currently operating under an administratively extended NPDES permit.
- Susquehanna River Basin Commission (SRBC) Docket
 - Constellation is currently operating under SRBC Docket No. 20221203.
- Clean Water Act (CWA) 401 Certification
- Pennsylvania Synthetic Minor Air Operating Permit
- Pennsylvania Drinking Water Permits
 - Constellation is currently operating under a drinking water permit for the site.
- Groundwater Use
- Cooling Water System
- Independent Spent Fuel Storage Installation (ISFSI)

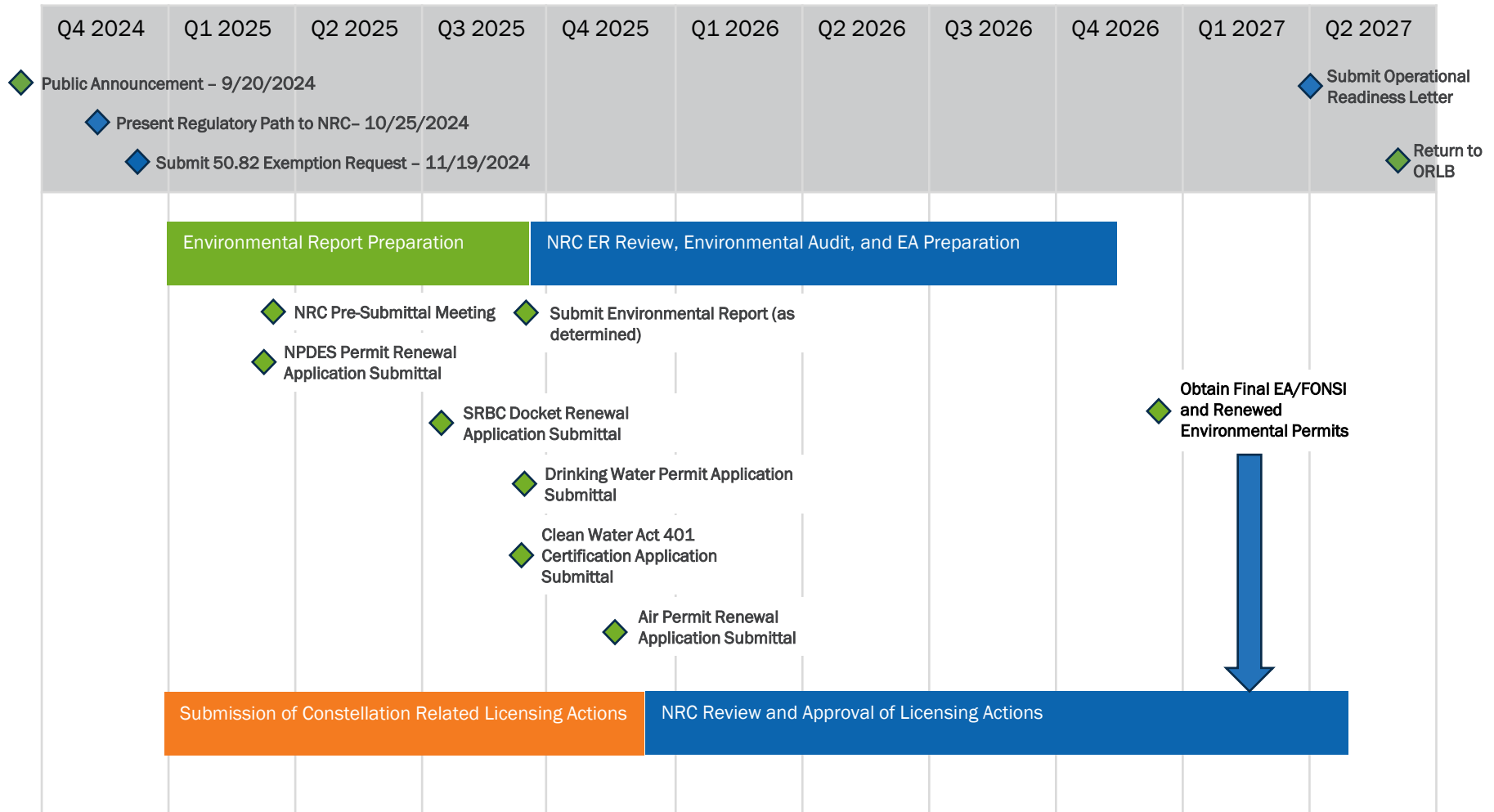
Current Operations

- Environmentally related equipment in operation
 - Two river water pumps for dilution flow
 - Motor and diesel driven river water fire pumps
 - Industrial waste treatment system – non-radioactive liquid waste disposal
 - Industrial and domestic water wells
 - Sewage treatment plant
 - Auxiliary Building ventilation

Path Forward

- Understand NRC has responsibilities under NEPA to prepare an Environmental Assessment for this restart action
- Constellation Environmental Lead will coordinate with the NRC Environmental PM and may request use of the audit process during preparation of the Environmental Report to ensure it addresses the NRC requirements.
- Constellation will voluntarily submit an Environmental Report that focuses on restart activities subject to NEPA review, targeted for October 2025.
- Constellation will support both virtual and on-site audits for the Environmental Assessment preparation.
- Constellation will work with NRC to determine final steps for approval. It is anticipated that:
 - A final Environmental Assessment and Finding of No Significant Impact (FONSI) will be issued within 12 months of acceptance of the ER.

Environmental Report and Permit Timeline



Discussion/Questions