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Palisades Construction Permit Application: Initial Environmental & Site Characterization

April 3, 2024

Holtec's SMR-300 Technology
Safe, Secure, Reliable, Flexible, Economical
Clean Energy to Support the World's Energy Needs



Holtec International Krishna P. Singh Technology Campus One Holtec Boulevard Camden, NJ 08104, USA

[Not Export Controlled]

Agenda



- Team Introductions
- Holtec and CPA Project Overview
- Site Characterization Activities
 - Critical Dune Protection
 - Cultural Resources
 - ✓ Ecological Resources
 - ✓ Surface Hydrology
 - ✓ Subsurface Investigations
 - Meteorology
 - ✓ Site Characterization Schedule
 - Permit and Agency Consultation Plan





- Holtec International is a global turnkey supplier of equipment and services for the Nuclear Energy Sector
 - ✓ SMR-300 design and deployment
 - ✓ Palisades Nuclear Plant repower
 - ✓ Nuclear fuel waste management
 - Decommissioning of shuttered nuclear power plants
- "A generation ahead by design"



Holtec's Advanced Manufacturing Division (AMD)
Designed and Constructed for Fabrication of SMR-300





- Submit CPA in mid 2026 for a dual-unit SMR-300 plant for approximately 600 MWe new generation to be collocated at the Palisades Nuclear Generating Station
 - ✓ Holtec has engaged the NRC regarding the potential to submit a Limited Work Authorization for some construction activities ahead of CP approval
- Submit an OLA to support facility commissioning and startup by early 2031







Stakeholder engagement is important for the success of the CPA!

Outreach

- Use multiple outreach methods to communicate proactively with key stakeholders to ensure meaningful engagement.
- Listen to and welcome diverse perspectives and inputs.
- Understand stakeholder concerns and inputs and address accordingly.
- Early engagement with key regulatory agencies, including but not limited to:
 - Michigan State Historic Preservation Office (MSHPO)
 - Michigan Environment, Great Lakes, and Energy (EGLE)

CPA Characterization Activities: Critical Dune Protection



- Holtec is partnering with ENERCON and BARR to complete a detailed delineation of critical dunes within the Palisades site.
 - Early engagement with Michigan EGLE has been initiated to develop updated dune boundaries and protective measures.
- All efforts are being taken to minimize dune impacts to the extent possible.



Note: Critical dune areas illustrated on figure are based on historical data

CPA Characterization Activities: Cultural Resources



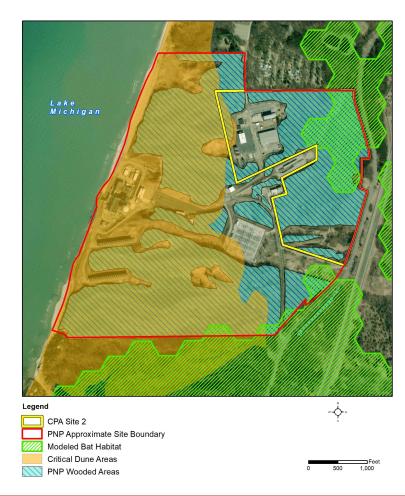


- Cultural resources are being reviewed.
 - A survey plan of the Palisades site has been developed and submitted to MSHPO.
 - ✓ Field crews mobilized on March 18, 2024, to begin archaeological survey, including shovel tests according to MSHPO recommended methodology.
 - ✓ The resulting report will be provided to MSHPO for concurrence of findings and incorporated into the CPA ER.



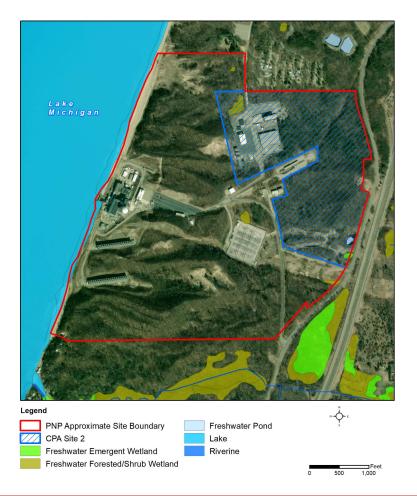
CPA Characterization Activities: Ecological Resources

- Ecological resources at Palisades are currently being evaluated to identify potential habitat for state and federally-listed species.
 - √ 73 state-listed threatened and endangered (T&E) species
 - ✓ 10 federally-listed T&E species
 - Three birds
 - One rattlesnake
 - Two butterflies
 - Three bats
 - One plant
 - Acoustic bat survey to be conducted Summer 2024.





CPA Characterization Activities: Surface Hydrology

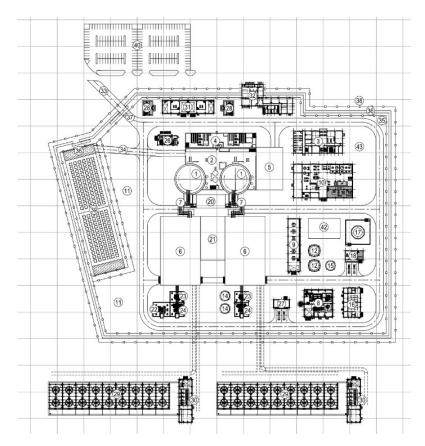


- Holtec is completing a wetland delineation survey of the Palisades site in accordance with the US Army Corps of Engineers manual.
- Onsite surface water bodies will be mapped.
- Seeps, springs or other onsite surface hydrology will be identified.

CPA Characterization Activities: Subsurface Investigation



- Geotechnical Characterization
 - ✓ Holtec will finalize the SMR-300 plot plan and build location after reviewing initial site characterization data.
 - ✓ NRC will be engaged prior to core borings (anticipated Summer 2024).
- Groundwater Monitoring
 - ✓ Additional groundwater monitoring wells will be installed to supplement the information from existing site groundwater monitoring wells.



CPA Characterization Activities: Meteorology





- Palisades has a meteorological tower that provides data for the existing plant.
- Holtec intends to use data from this meteorological tower for SMR-300.
 - ✓ Validation of data applicability is planned after SMR-300 plot plan and build location are finalized.





- Critical Dune Delineation April 2024
- Cultural Resources April 2024
- Ecological Resources Phased approach, complete Winter 2024
- Surface Hydrology April 2024
- Subsurface Investigation
 - ✓ Geotechnical Investigation Summer through Fall 2024
 - ✓ Groundwater Monitoring Fall 2024 through Fall 2025
- Meteorology Complete, pending validation

^{*}Dates represent completion of site work, reports documenting analysis and conclusions will follow.

CPA Characterization Activities: Permit and Agency Consultation Plan



- Holtec has developed a Permit and Agency Consultation Plan
 - ✓ Identifies the local, state, and federal permits required for the CPA.
 - ✓ Identifies key stakeholders and agencies that will be consulted as part of the CPA development process.
 - Engagement with key stakeholders and agencies will be conducted early to allow adequate time for input into the CPA development process.
 - Holtec has already started early engagement with Michigan EGLE, MSHPO,
 Covert Township, and County of Van Buren.



Adjourn