

Palisades Nuclear Restart 2025

Conceptual Redesign Overview

Background

The Palisades Nuclear Power Plant in Michigan, originally decommissioned in 2022, is set to restart operations in 2025. With significant financial backing and engineering oversight, Holtec International has been tasked with modernizing critical safety components and addressing aging infrastructure challenges.

Project Objective

This conceptual AutoCAD design project was inspired by the Palisades restart effort. The goal was to create professional, schematic-level designs focusing on three areas:

- **Steam Generator Redesign Layout**
- **Control Room Concept Layout**
- **Emergency Cooling System Schematic**

Tools Used

- AutoCAD 2025
- Snip & Sketch (for renders)
- GitHub (for portfolio presentation)

Key Learning Outcomes

- Translating current engineering news into practical design work
- Structuring and labeling diagrams to meet industrial engineering standards
- Applying safety-first considerations in facility layout and cooling systems
- Building a clean, professional engineering portfolio ready for recruiter attention