



# MANAFORT BROTHERS INCORPORATED

## MAINE YANKEE NUCLEAR POWER PLANT DECOMMISSIONING & DEMOLITION

### Nuclear Decommissioning



#### PROJECT

Maine Yankee Nuclear Power Plant Decommissioning & Demolition

#### MARKETS

Nuclear Decommissioning Demolition Remediation & Abatement

#### CONTRACT TYPE

Specialty Contractor

#### PROJECT OWNER

Yankee Maine Atomic Power Company

#### LOCATION

Wiscasset, ME

The Maine Yankee Nuclear Power Plant in Wiscasset, Maine was the first Nuclear Power Generating Facility in the United States to be decommissioned and demolished. Manafort completed this successful decommissioning and demolition in 2006 working directly for the Maine Yankee Atomic Power Company. The Plant was a 920 MW Pressurized Water Reactor (PWR) with attendant equipment and facilities. The Plant was commissioned in the mid 1970's and operated until it shut down in the mid 1990's due to the discovery of cracks in the plants steam generator tubes. Manafort's scope of work included decommissioning, commodity removal, and demolition the following structures: Circulation Water House • Turbine Pedestal • Turbine Building • Containment Structure • Containment Structure Polar Crane • Steam & Valve House • Spray Building • Service Building • Control Room • Transformer • Demineralized Water Storage Tank • Reactor Water Storage Tank • Generator • Met Tower • Information Center • Various Warehouses

Being the first removal of it's kind, Manafort was challenged to creatively develop safe and successful methodologies to decommission and demolish these structures. Manafort drew upon its extensive demolition and construction experience along with a team of industry experts to do so. Examples of our creative solutions to the project challenges included:

- The use of explosives to percussively weaken the heavily reinforce concrete Turbine Pedestal to allow demolition with the use of large Excavators and Hydraulic Hammers.
- The use of explosives to implode the Turbine Building to allow safer demolition at grade.
- The use of large cranes and pick plans to dismantle transmission towers.
- The use of explosives to safely lower the Containment Structure Polar Crane to allow safer demolition at grade.
- The highly creative use of selective structure weakening and explosives to demolish the Containment Structure.

Manafort safely and successfully self performed all work on time and within budget through meticulous planning and execution in close coordination with the Maine Yankee Atomic Power Company.

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