



## **GREEN MOUNTAIN WIND FARM SITE DECOMMISSIONING GARRETT, PENNSYLVANIA**

**Description:** Complete Site Decommissioning

**Duration:** November 2016 – December 2016

### **Highlights:**

- Complete demolition of eight 180 feet tall wind turbines, and two 200 feet tall MET Towers.
- Demolition and size reduction of over 750 CY of concrete debris.
- Transportation and recycling of approximately 1,450 tons of steel.
- Collection and disposal of all gear oil, hydraulic oil and antifreeze.
- Coordination with both owner and the landowners to ensure all parties approved the final state of property.
- Worked through uncooperative weather conditions on a daily basis.
- Project was successfully completed, ahead of schedule, with zero safety, compliance, or dust complaints.

11 **PU-16-690** Filed: 5/17/2018 Pages: 10  
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11 **PU-16-642** Filed: 5/17/2018 Pages: 10  
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Late-Filed Exhibit 2

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11 **PU-10-108** Filed: 5/17/2018 Pages: 10  
Late-Filed Exhibit 2

11 **PU-10-107** Filed: 5/17/2018 Pages: 10  
Late-Filed Exhibit 2

9 **PU-10-106** Filed: 5/17/2018 Pages: 10  
Late-Filed Exhibit 2

11 **PU-10-105** Filed: 5/17/2018 Pages: 10  
Late-Filed Exhibit 2

11 **PU-10-104** Filed: 5/17/2018 Pages: 10  
Late-Filed Exhibit 2

10 **PU-10-103** Filed: 5/17/2018 Pages: 10  
Late-Filed Exhibit 2

12 **PU-10-102** Filed: 5/17/2018 Pages: 10  
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11 **PU-10-101** Filed: 5/17/2018 Pages: 10  
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## ***FPL/NEXTERA ENERGY WIND TURBINE DEMOLITION TUSCOLA BAY***

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**Description:** Wind Turbine Demolition & Removal – Tuscola Bay

**Duration:** December 2017

**Highlights:**

- Demolition of 180 ft. wind turbine in Tuscola Bay, MI.
- Designed, engineered, and installed fortified shelter boxes to protect workers working under the tower.
- DEMCO demolished the turbine without the use of cranes, cables, or explosives.
- Disposal of all blades, oils, nacelle, and other equipment.
- Restoration of site/work areas.
- Completed project ahead of schedule and below budget.



## ***FPL/NEXTERA ENERGY WIND TURBINE DEMOLITION KING MOUNTAIN***

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**Description:** Wind Turbine Demolition & Removal – King Mountain

**Duration:** December 2017

**Highlights:**

- Demolition of 180 ft. tall wind turbine in Upton County, TX.
- Designed, engineered, and installed fortified shelter boxes.
- Assisted owner in removal of PMT.
- Disposal of all blades, oils, nacelle, and other equipment.
- Restoration of site/work areas.
- Completed project ahead of schedule and below budget.



***FPL/NEXTERA ENERGY  
WIND TURBINE DEMOLITION  
SOUTHWEST MESA***

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**Description:** Wind Turbine Demolition & Removal – Southwest Mesa

**Duration:** December 2017

**Highlights:**

- Complete Demolition of 180 ft. tall wind turbine in McCamey, TX.
- Removal of all PMT and DTE.
- Disposal of all blades and oils.
- Restoration of site/work areas.
- Worked through severe weather and terrain.
- Completed project on schedule and below budget.



## ***PREMCOR/VENTECH METHANOL UNIT DISASSEMBLY DELAWARE CITY, DELAWARE***

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**Description:** Match Mark & Disassembly for Reuse of Methanol Unit

**Duration:** March 2006 – November 2006

### **HIGHLIGHTS:**

- DEMCO was contracted to perform the systematic dismantlement of the Methanol Unit 41 in a manner to provide component integrity and present to Ventech Engineering for packaging and shipment to Trinidad.
- Major Components, totaling over 5,500 tons of steel, included transformers, chillers, vessels, compressors, heaters, convection sections, preheater, and towers were systematically disassembled by unbolting, arc gouging, water cutting, shearing, and conventional means and were then loaded as prescribed.
- DEMCO's crew performed the gross demolition of insulation, concrete, steel, refractory coated pipe rack and remaining structures to grade.
- All work was performed utilizing Union Labor under GPPMA with composite crews, Safety, Supervision, Equipment, and Engineering.
- Safety, as always, was of ultimate concern and successfully dealt with hazardous materials including asbestos, kaowool, and latent hazardous product in piping & components in accordance with client and refinery policies and procedures.
- DEMCO's management team provided detailed work/cost/scheduling controls, including development of lift plans and implementation of heavy lifts, including subcontracting the lift of the reactor vessel, weighing over 385 tons.



## **YANKEE ROWE NUCLEAR POWER STATION DECOMMISSIONING & DEMOLITION ROWE, MASSACHUSETTES**

**Description:** D&D of Nuclear Power Station

**Duration:** February 2003 – June 2005

### **HIGHLIGHTS:**

- DEMCO was contracted by Yankee Atomic Electric Company to provide complete decommissioning & demolition services of the Yankee Rowe Atomic Power Station, located in Rowe, Massachusetts. The 600-megawatt, pressurized-water reactor and plant support structures, constructed in 1960, was the third nuclear power plant built in the United States. The Yankee Rowe Power station was the only NRC reactor unit constructed completely above ground and operated for 32 years.
- DEMCO's two year accelerated scope of work included: project controls, characterization of all wastes, the decontamination and demolition of all above grade structures, creation of new storage, staging and parking areas, waste size reduction, loading, transportation & offsite disposal of all wastes, and site restoration. The decontamination and demolition of all 27 above ground structures will produce approximately 70,000,000 pounds of waste, of which 50,000,000 pounds was shipped as Low Level Waste to Envirocare of Utah.
- DEMCO successfully performed the complex task of removing the elevated steel vapor container coated in PCB & lead paint. The removal of this 225-foot high steel vapor container (VC) was difficult not only due to the height, but also the shape of the sphere. The globe, or sphere, prohibited the use of scaffolding for safe access to the structure, thus access was only available through the use of cranes and equipment with man baskets. In addition, the difficulty of the VC removal was magnified by the need to remove the PCB & lead containing paint coating on the VC, prior to any "hot work" being performed on the VC dome, as required by the US EPA (40CFR 761). DEMCO, in conjunction with the owner YAEC, petitioned the US EPA to provide a variance for "hot work", or torch cutting work, to be permitted on the upper portion of the VC to expose the reactor core.



**YANKEE ROWE  
NUCLEAR POWER STATION  
PAGE 2**

- DEMCO was required to collect, manage and treat approximately 2,000,000 gallons of groundwater during the contaminated radioactive soil removal project surrounding the demolition of the Spent Fuel Pool. DEMCO collected all ground water utilizing pumps and well points for storage within 20,000 gallon holding tanks; performed sampling and analysis; treatment through a resin bed system for the removal of heavy metals and PCB's; and final treatment through an evaporator system for the removal of radioactive contaminants. Prior to final discharge; all treated liquids underwent final confirmatory sampling by 2 NRC approval laboratories.
- Approximately 95,000 square feet of radioactive transite, galbestos and roofing materials were successfully removed.
- The complete demolition of the Turbine Building was performed as asbestos containing waste, due to all painted surfaces within the structure containing ACM. All Federal, state and local variances for this work were designed and negotiated by DEMCO with all agencies.
- DEMCO removed approximately 45,000 square feet of PCB paint, with PCB content of as great as 5000 ppm, from various concrete surfaces by employing ultra high water pressure (UHP) equipped with a vacuum recovery system.
- DEMCO demolished over 50,000 square feet of structures at the site with all structures being demolished, packaged, transported and disposed of as radioactive wastes. Structures included, Turbine Building, Services Building, Radwaste Warehouse, Spent Fuel Pool, PCA 1&2, Waste Compactor Building, Vapor Container (VC) and the Reactor Support Structure (RSS), which contained approximately 8,500 Cubic Yards of concrete.
- Dismantled a 185' concrete, radiologically contaminated, ventilation stack. This stack removal required dismantlement by manual methods, under negative pressure throughout removal operations.
- Explosive demolition of Turbine pedestals.
- Demolition operations included; sizing; segregation; packaging; transportation; and disposal of approximately 50,000,000 pounds of radioactive debris to Envirocare of Utah.
- DEMCO removed, through demolition operations, approximately 2,800 tons of structural steel, equipment and miscellaneous components. Highlighting this task was the removal of 1,700 tons of low level radioactive 1" thick plate steel, performed under specially designed critical lifting plans.
- Stainless Steel Spent Fuel Pool Liner was removed by the use of lance cutting and robotics, to minimize the exposure of workers to radiation. Portions of the liner materials were packaged, transported and disposed of as high level radioactive materials.
- Surface decontamination for ACM, PCB, radioactive materials was performed on from various surfaces. The technologies utilized included ultra-high water pressure with vacuum recovery, enclosed mechanical scarification (needle gun) or open air scarification (needle gun w/ vac attachment).
- DEMCO's Management Team provided direct management, coordination, integrated planning & execution of work. In addition, DEMCO is required to manage over 75 on-site craft personnel, performing multiple tasks on site each day. The result of this direct management was that construction milestones and schedules were met.



## ***OLD YANKEE STADIUM DEMOLITION NEW YORK, NEW YORK***

**Description:** Demolition of Old Yankee Stadium

**Duration:** March 2009 – July 2010

### **HIGHLIGHTS:**

- Removed all stadium lighting, prior to demolition.
- Obtained variance to NYC Building Code to “Cut & Pull” sections of stadium weighing up to 500 tons each, some of which were just feet from the MTA elevated subway structure.
- Systematically removed the lower bowl section of the stadium before moving to the upper deck.
- Performed eighteen “Cut and Pulls” activities of the upper deck, including a test pull for Department of Buildings’ approval.
- Performed sixteen “Cut and Pulls” on the main structure of the stadium, after safely removing the upper deck.
- Removed two 15,000 gallon UST’s of fuel oil from old boilers.
- Installed 26,000 cubic yards of backfill, compacted to requirements.
- Recycled of 79,416 truck yards of concrete; 7,788 tons of steel; 2,988 pounds of R-22 refrigerant.
- Disposed of 6,260 truck cubic yards of C&D, as well as lead contaminated soil, 2380 cubic yards of ACM, and all Universal Waste (PCB Ballasts, HID lights, Smoke Detectors, etc).
- Performed removal of 57,000 seats and memorabilia prior to demolition.
- Produced 103 engineered drawings and detailed work plans.
- Worked accelerated schedule to meet client needs.
- Project completed with no outstanding punch list items.
- First project to adapt the 33 recommendations of the Mayor for additional safety standards for New York City.
- Performed first job with new standpipe requirements with pressurized standpipe system with monitoring with a auto call system to notify DOB, FDNY, DEMCO , Turner, EDC in case of a breach in the system.
- No OSHA violations.



## ***FLORIDA POWER & LIGHT CEDAR BAY GENERATING PLANT DEMOLITION JACKSONVILLE, FLORIDA***

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**Description:** Salvage Recovery & Demolition of Cedar Bay Generating Plant

**Duration:** June 2017 – March 2019

### **HIGHLIGHTS:**

- Salvage and recovery of equipment for resale.
- Removal, handling, and disposal of hazardous and regulated materials.
- Demolition of 250 MW power plant, including baghouse structures, 3 coal-fired boiler units, 425 ft tall stack, and turbine structure.
- Demolition of support buildings, including cooling tower, zero-discharge water treatment facility, coal handing buildings and equipment, material silos, and limestone transfer facility.
- Removal of site rail and railroad material transfer structures.
- Recycling of 20,000 tons of ferrous scrap material.
- Site restoration, including backfill to grade and site stormwater grading.



***RANCHO SECO NUCLEAR  
POWER STATION  
DECOMMISSIONING &  
DEMOLITION  
HERALD, CALIFORNIA***

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**Description:** D&D of Reactor Building

**Duration:** April 2007 – October 2008

**HIGHLIGHTS:**

- Construction of twenty five foot high containment tent, which was utilized as a control point for Rad surveys and access to the reactor core.
- Lead abatement on polar crane, in strategic locations, to allow for hot cutting on structural steel.
- Construction and maintenance of negative pressure HEPA filtration system within the containment.
- Demolition of Rad contaminated reinforced concrete Interior Reactor Support Structure, from 67 foot above grade to 30 foot below grade.
- Demolition and removal of remaining reactor coolant piping,
- Demolition of stainless steel lining in the reactor (refuel) cavity.
- Demolition of structural support steel
- Demolition of reactor building polar crane, trolley, girders and crane rail.
- Packaging and shipping debris, in rail cars, for shipment to Energy Solutions in Utah, including 34,541,000 pounds of crushed concrete from the reactor building.