

DOCKETED

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Document Title:	East Kentucky Power Plant Demolition - Spurlock Unit No. 1 Backend Equipment
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East Kentucky Power Plant Demolition
Spurlock Unit No. 1 Backend Equipment

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Project Description

This project consisted of the demolition of the structure known as Unit No. 1 Boiler Outlet of the East Kentucky Power Cooperative H.L. Spurlock Power Station located at 1301 West 2nd Street in Maysville, Kentucky. The structure was multi leveled to a height of 150'-0" above grade, totaling 180,000 sq. ft. and was constructed of structural steel framing, supporting various pieces of equipment.

East Kentucky Power Cooperative contracted North American Dismantling Corp. (NADC) to complete the removal of the structure down to the existing slab including environmental decommissioning and asbestos abatement. The demolition included the removal and/or recycling as scrap; the steel framing, all equipment and machinery contained within and all mechanical, electrical and ancillary equipment including ductwork, fans, piping, conduit, steel guard posts and railings. Major equipment included but was not limited to:

- Electrostatic Precipitator (1) including transformer/rectifiers and controls. (The control enclosure located in the plant is not included);
- Induced Draft Fans (2) including the fan, 2-speed motor, oil filled speed changer, and lube oil units (4000 volt, 3500/200 Hp, 888/710 RPM);

Work Performed: demolition, environmental decommissioning, asbestos abatement, equipment recycling, asset recovery

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- Forced Draft Fans (2) including the fan, 2-speed motor, oil filled speed changer, and lube oil units (400 volt, 1500/100 Hp, 710/590 RPM);
- Rothemule Regenerative Air Heaters (2);
- Babcock & Wilcox Tubular Air Heater (1);
- Sets of Steam Air Heating Coils (Secondary air) (2);
- Miscellaneous duct sections stored in the lay down area.

This equipment had been in use for approximately 26 years on the flue gas outlet of a coal fire utility boiler firing eastern bituminous coal.

In addition to removing all equipment mentioned above, NADC removed a No. 2 oil fired Combustion Engineering package boiler rated at 110,000 Lb/Hr at 25 PSIG and 455 Deg. F steam outlet temperature, including all auxiliaries such as misc. pumps, fan, and condensate DA/storage tank are to be removed as well. An ash piping bridge on the west side of the precipitator was required to remain. It was supported by a cantilever off the precipitator support steel. NADC had to modify a portion of the steel in order to adequately support the piping bridge prior to its demolition activities.

Also included as a part of its scope of work, NADC was required to salvage and save the following:

- Primary Air Fans (2) including the fan, motor, and the lube oil unit;
- Set of Primary Air Steam Coils (1);
- Two (2) Bridge cranes located in the precipitator pent houses.

All environmental issues were addressed and abated by EKP prior to the start of NADC's work. The ducts were vacuum cleaned and the regenerative air heaters were water washed to remove bulk ash by the owner prior to NADC's work. Storm sewers and catch basins located in the vicinity of the work area were covered with visqueen or filter fabric to prevent any accidental discharge into the storm system.

Because of the potential dust, NADC maintained a misting of water on the areas of the structure being demolished. Wetting the building not only eliminates dust, it also kept the chance of any fire to an absolute minimum.

Prior to dismantling Unit No 1, NADC secured the area with temporary 6'-0" chain link fencing. NADC conducted the demolition of Unit No. 1 within the confines of the fenced area, including dismantling, material reduction, material staging, loading, and truck staging. Absolutely no one was allowed to enter the demolition site without first obtaining permission from NADC.

NADC utilized a 75 Ton Hydraulic Crane, a Caterpillar 375 Hydraulic Excavator equipped with a LaBounty MP-40 Hydraulic Shear or a demolition grapple, a Caterpillar 345 High Reach Hydraulic Excavator equipped with a Caterpillar MP-20 Hydraulic Shear and a Komatsu 300 Hydraulic Excavator equipped with demolition grapple to complete its controlled demolition activities. The 75 Ton Hydraulic Crane was used to remove any large pieces of equipment that cannot be safely down sized by the hydraulic shears or that will be salvaged. The heavier sections were rigged, lowered then downsized as required or shipped from site. The Caterpillar 345 and Caterpillar 375 were utilized to complete the removal and downsizing of the structural members and the Komatsu 300 was used to segregate and load material. NADC's Caterpillar 345 High Reach Hydraulic Excavator

NADC IN THE NEWS

POWER DOWN

For the P.H. Glatfelter Paper Co. project, NADC used a Volvo EC700CHR ultra high reach demolition excavator with LaBounty MSD 1500 hydraulic rotating shear to deftly dismantle two chemical boiler buildings and electrostatic precipitator as well as related ductwork and piping.

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is only one of a few in the country with a reach of 85'-0" from center point of pin to shear tip. The Caterpillar 345 High Reach Excavator was designed to meet the specific safety needs of the demolition industry. This machine allows the operator to reach 85'-0" from the machine keeping the operator a safe distance from his work. It also allows the demolition to commence from the top of the building and dismantle in a downwards manner always keeping the materials being dismantled lower than the equipment, eliminating any exposure from loose debris. The hydraulic excavators equipped with their respective demolition tools allow the operators to cut, pull and lower the structure in the essential direction of fall, maintaining total control of the structure during demolition activities. The structure was dismantled in a manner that all material was placed in the secured area where ferrous, non-ferrous and deleterious material will then be removed, downsized and placed into staged transportation vehicles for offsite disposal.

Approximately 10 transport vehicles were used daily during the course of our demolition to remove ferrous and non-ferrous scrap material and demolition debris generated during the demolition activities. To insure the safety of traffic traveling along the roadway, NADC provided the necessary road security during the course of this project. This project required extensive coordination between the Owner and NADC to maintain plant continuity without disrupting any plant activities. The project was completed within budget, ahead of schedule and without any injuries.

Contact us for more detailed information on your power plant demolition project.

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