

Project:

Los Alamos National Laboratory Substation
New 115kV Substation & Transmission Line
042909 STA / 052914 ETA
STA & ETA Contract No. 96918-001-05-CB

Location:

Los Alamos, NM

Owner Representative:

Los Alamos National Laboratory
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Contracting Officer: David Hay
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Engineering:

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2121 38th Street
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Start & Scheduled Completion Date:

Initial Phase: March-2005 to May-2006
ETA Phase: May-2006 to Jan-2007

Actual Completion Date:

March 24, 2006

Initial / Final Contract Amount:

STA Phase \$962,510 / ETA Phase \$784,287

Description of the project:

Initial Phase Included:

9 Miles of 115kV Transmission Line; 115kV ring bus substation to include; (3) 115kV, 2000 amp breakers; (8) 115kV, 2000 amp vertical break switches; (3) 115kV, 2000 amp vertical break motor operated switches.

Substation included all steel, control wiring, control house (24x36), bus and fittings. This substation is referred to as the South Testing Area (STA) substation and the 9 miles of transmission line ties into the substation called West Testing Area (WTA).

East Testing Area (ETA) Phase: The ETA substation at Los Alamos National Labs NM is a 1975 construction of a 115kv 6 breaker ring bus with 4 transmission lines, 1- 50MVA and a 12 circuit 13.2kv distribution switchgear. Replaced the (6) OCB's with new SF-6 gas breakers, also the (6) relay panels and all control cables, relocated (1) deadend tower and (1) switch tower, installed foundations and equipment for (1) new deadend tower and (1) new switch tower, re-constructed the 2" aluminum bus and strung bus to the new design, installed a new SF-6 gas breaker, 50 MVA transformer and bus duct to connect to the existing 13.2kv switchgear. Up-graded the existing control house with new AC & DC breaker panels, new batteries and chargers, new air conditioning units, relay panels and all the required relay testing.



Los Alamos National Lab. Substation