



EDi Job No. 272



21. LANL TA-21 TSTA, Bldg. 155 D&D

22. Year Completed Professional Service:

Year Completed Construction: (if applicable)

Los Alamos, New Mexico

2010

Contract Role:  Prime Contractor  Subcontractor

CAGE Code: ID1U3

DUNS Number: 61.680.5073

23 a. Project Owner/Customer:

23 b. Point of Contact Name:

23 c. POC Contact Info.:

Los Alamos National Security, LLC  
P.O. Box 1663, Mail Stop: C349  
Los Alamos, NM 87544

Duane Parsons  
LANL Technical Representative

505.412.3356, voice  
505.606.1526, fax  
duanep@lanl.gov

Hiring Prime (if applicable)::

Point of Contact Name:

POC Contact Info.:

North Wind, Inc.  
1425 Highham Street  
Idaho Falls, ID 83402

Brad D. Nelson  
Sr. Contract Administrator

208.528,8718, voice  
208.528.8714, fax  
bdnelson@northwind-inc.com

24. (Include scope, size, and cost) Brief Description of Project and Relevance to this Contract:

Awarded Price: \$136,601.47

Final/Projected Cost: \$388,632.98

Award Date: 09.08.2008

Contract No.: 5401S.02/54045.03

Period of Performance: 09.08.2008 – 02.26.2010

Final or Projected Schedule: 02.26.2010

Contract Type:  Firm Fixed Price  Cost Reimbursement  Time and Materials  Cost Plus Fixed Fee  
 Cost Plus Award Fee  Performance Based

Type of Work Performed: 562910/Facility Characterization & Environmental Remediation Services

% of Work Self Performed: 100%

% of Work as Subcontractor: n/a

Notes: Project completed with additional modifications added by Prime. Project came in on time and on budget.

Technical Representative (if applicable):

Tech Rep. Agency & Address:

Tech Rep. Contact Info.:

Ms. Margie Stockton

North Wind, Inc.  
1350 Central Avenue, Suite #300  
Los Alamos, NM 87544

mstockton@northwind-inc.com

Background

Planning for the Tritium Systems Test Assembly (TSTA) began in 1977 after Los Alamos National Laboratory (LANL) was chosen to develop, demonstrate, and integrate technologies related to the deuterium-tritium fuel cycle for large-scale fusion reactor systems. Construction was completed, and pre-tritium testing was initiated in 1982. The first tests with tritium in the system were conducted in 1984. This was the only U.S. Department of Energy (DOE) research facility handling significant quantities of tritium. The on-site inventory of tritium ranged from 180 to 200 grams. TSTA was the center of an international collaboration with Japan for tritium research and development related to the fusion energy program. TSTA was stabilized and shut down in 2003 following a three-year process, which included recovering tritium for later use, disposing of tritiated waste and removing the Tritium Plasma Experiment System in one piece so it could be used in another tritium-related project.



One of the unique aspects of the scope of work for this project was the demolition of a 60-ft. exhaust stack. EDi provided the site supervision, operators and laborers to execute this task. The stack was safely demolished and packaged for waste disposal.

## Scope of Work

Under subcontract to North Wind, Inc., EDi provided field support services to facilitate the removal of all facility equipment, materials, and components from the TSTA Building 155 located within Technical Area- (TA-) 21. The scope of work was intended to prepare Building 155 for planned demolition and waste disposal activities. EDi provided the Field Team Lead, equipment operators, laborers, and decontamination technicians to implement all required project plans and procedures.

EDi safely dismantled and removed all facility components and equipment to include the following:

- Exhaust Ducting
- Vacuum Systems
- Compressed Air Systems
- Water Cooling Systems
- Chiller Systems
- HVAC System

Process Lines and Systems A unique aspect to EDi's scope of work was the safe and effective demolition of a 60-foot exhaust stack. EDi provided the required expertise including supervision, operators, and laborers to execute this task. This task was a key component to the project and drew high visibility from Los Alamos National Security, LLC (LANS) management. In summary, the stack was safely demolished and packaged for waste disposal.



EDi also supported waste inventory, handling, and packaging of demolition materials and equipment in accordance with the project define (WCSF). Waste was segregated by type: industrial; radioactive low level; mixed radioactive; New Mexico special waste; and polychlorinated biphenyls (PCBs). Waste was then placed and stored in the appropriate containers awaiting disposal activities.