



EDi No. 265



21. Calibration, Repair & Maintenance of EPA Fixed RADNET Monitoring Stations

22. Year Completed Professional Service:

Year Completed (if applicable) Construction:

Nationwide Locations, United States

Ongoing (2011)

n/a

Contract Role: [X] 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.:

U.S. Environmental Protection Agency
National Air and Radiation
Environmental Laboratory
540 South Morris Avenue
Montgomery, AL 36115-2601

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EPA Representative

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Key Personnel:

Table with 4 columns: Name, Office, Email, Phone. Rows include Ken Murphy, Project Manager and Scott Messina, Technician.

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

Awarded Price: \$1,189,880.00

Final/Projected Cost: \$1,189,880.00

Award Date: 05.05.2006

Contract No.: EP-D-08-068

Period of Performance: 05.05.2006-08.11.2011

Final or Projected Schedule: 8.11.2011

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

Type of Work Performed: 541990, Professional, Scientific, and Technical Support Services

% of Work Self Performed: 100%

% of Work by Subcontractor: 0%

Comments/Notes: Because of a job well done, this project has been extended and funded additional monies through 2011.

Contracting Officer (if applicable):

Contracting Agency & Address:

Contracting Officer Contact Info.:

Daryl Jones Rodney

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U.S. EPA RadNet History, Mission & Objective

The U.S. Environmental Protection Agency established RadNet (previously known as ERAMS) by consolidating a number of existing radiation monitoring networks. The RadNet program was initially responsible for monitoring radiation associated with nuclear weapons testing, but the program was later expanded to include monitoring radiation emergencies, following trends in environmental radioactivity levels, and providing data for dose calculations. During the years since it began, RadNet has developed an important environmental radiation database containing almost thirty years of data. These data have been accessed and studied to provide information about releases of radioactivity to the environment, from weapons tests and nuclear accidents to natural releases such as fires around a U.S. Department of Energy (DOE) site.

The RadNet mission is to monitor environmental radioactivity in the United States in order to provide high quality data for assessing public exposure and environmental impacts resulting from nuclear emergencies and to provide baseline data during routine conditions

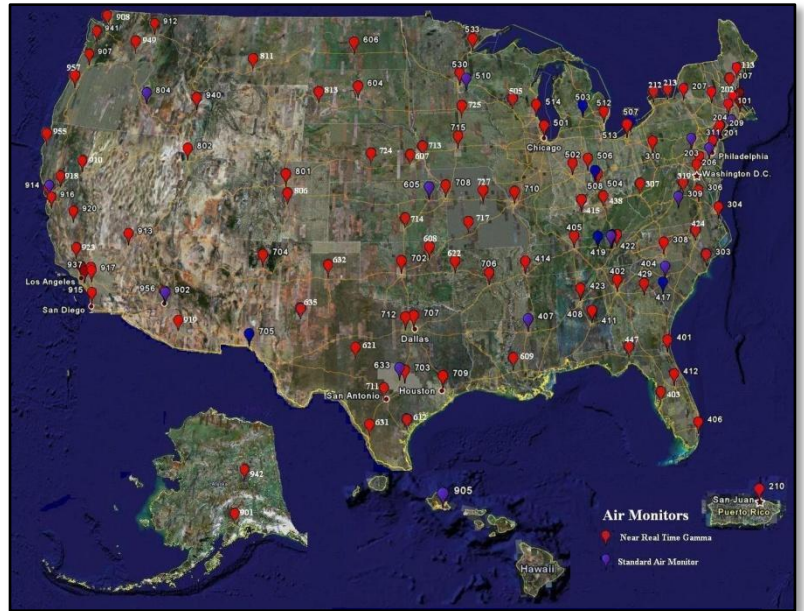
Calibration, Repair & Maintenance of US EPA Fixed RADNET Monitoring Stations (concluded)

RadNet has three specific objectives:

- Provide data for nuclear emergency response assessments
- Provide data on ambient levels of radiation in the environment for baseline and trend analysis
- Inform the general public and public officials

In general, data generated from RadNet provides the information base for making decisions necessary to ensure the protection of public health. The system helps EPA determine whether additional sampling or other actions are needed in response to particular releases of radioactivity to the environment. RadNet can also provide supplementary information on population exposure, radiation trends, and other aspects of releases.

Under the RadNet Program, approximately 80 outdoor radiological air monitoring instrument have been installed and are operational at nationwide locations. RadNet devices are continuous, automated air sampling instruments, designed to detect a variety of radionuclides. All instruments are equipped with telemetry systems to report sampling data to EPA in real time. EPA continues to expand RadNet and plans to have 180 instruments in place by 2012.



Locations of EPA RadNet Monitoring Stations nationwide. Blue = Standard Air Monitor, Red = Near Real-Time Gamma Monitor

Scope of Work

EDi performs a variety of calibration, repair, and technical support services for RadNet air monitoring devices, both onsite and at our San Antonio service facility. This involves troubleshooting and repair of all system components including:

- Central processing unit
- Hard drives
- Operator interface and control subsystem
- Software
- Telemetry systems
- Weather monitoring subsystem (temperature, barometric pressure, and wind speed)
- Air pump
- Air flow meter
- Radiation sensors
- Power supply
- Component interfaces

Components replaced during onsite repairs are retained and later repaired in the San Antonio service facility, if feasible. EDi maintains and tracks an inventory of government-furnished equipment, EDi-owned diagnostic and repair tools, and spare parts. EDi pre-configures major or trouble-prone components (such as hard drives) for quick-turnaround repairs. EDi also advises EPA on systemic failure issues, which would eventually require redesign or retrofits to ensure dependable monitoring operation.

EDi developed a standard report format and is required to report to EPA the results of all onsite maintenance and repair activities and of service-facility repairs to RadNet monitor components.

