



**FEDERAL SUPPLY SERVICE
AUTHORIZED FEDERAL SUPPLY SERVICE PRICE LIST**

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the Option to create an electronic delivery order are available through GSA Advantage! , a menu-driven database system. The INTERNET address for GSA Advantage! is: <http://www.GSAAdvantage.gov>.

ENVIRONMENTAL SERVICES

FSS Schedule 899

Special Item Numbers: 899-1 through 899-8

Contract Number: GS-10F-0015N

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at <http://www.fss.gsa.gov>.

Contract Period: October 4, 2002 through October 3, 2007



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Business Size:

NAICS 541620/SIC 8999 Environmental Consulting, Large Business.

NAICS 562910/SIC 4959 Remediation Services (Environmental Remediation Services), Small Business

**General Services Administration
Federal Supply Service**

Modification #2, dated 01/01/2004
Effective Date: January 1, 2004

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CUSTOMER INFORMATION**1a. Table of Awarded Special Item Numbers**

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1c. Labor Categories

See pages 17 through 28

- 1d. Insurance Requirement for Remediation Services (SIN 899-8).** Ordering Agencies may require additional insurance coverage, above the minimums set forth in this contract, if necessitated by the requirements of the proposed task order.

2. Maximum Order

The Contractor is not obligated to honor any order for a combination of items in excess of: **\$1,000,000**

Notwithstanding the above, the Contractor shall honor any order exceeding the maximum order listed above, unless that order (or orders) is returned to the ordering office within 5 workdays after receipt, with written notice stating the Contractor's intent not to perform the service (or services) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

3. Minimum Order

The minimum order that may be placed under this contract is \$100.

4. Geographic Coverage

The geographic scope of this contract is for delivery within the 48 contiguous states, Washington, D.C., Alaska, Hawaii, and Puerto Rico

5. Point(s) of Production (City, County, and State or Foreign Country)

Location will be determined by individual task order.

6. Discount From List Prices or Statement of Net Price

Prices shown herein are Net (discount deducted).

7. Quantity Discounts

None

8. Prompt Payment Terms

None. (Net 30 Days)

9. Government Purchase Cards**a. Government Purchase Cards Below the Micropurchase Threshold.**

Amtec will accept Government purchase cards below the micropurchase threshold of \$2500.

b. Government Purchase Cards Above the Micropurchase Threshold.

Amtec will accept Government purchase cards above the micropurchase threshold up to \$25,000. In addition, bank account information for wire transfer payments will be shown on the invoice.

10. Foreign Items: None**11. Time of Delivery**

Delivery will be determined by individual task order.

12. F.O.B. Points: Destination**13. a. Ordering Address**

**Amtec Corporation
500 Wynn Drive, Suite 314
Huntsville, AL 35816-3429**

Telephone numbers(s) and E-mail addresses that can be used by ordering agencies to obtain technical and/or ordering assistance are listed as follows:

Mr. Bill Fieselman
GSA Program Manager
(256) 722-7200

bfieselman@amtec-corp.com

Mr. Rob Calahan
Business Manager
(256) 722-7200

rcalahan@amtec-corp.com

c. Ordering Procedures

For products and services, the ordering procedures can be found at: <http://apps.fss.gsa.gov/schedules/sched-so.cfm>. Information on Blanket Purchase Agreements (BPAs) and a sample format can be found at <http://www.fss.gsa.gov/schedules>

14. Payment Address

**Amtec Corporation
Attn: Accounts Receivable
500 Wynn Drive, Suite 314
Huntsville, AL 35816-3429**

15. Warranty Provision

Commercial Warranty on commercial delivered equipment

16. Export Packing Charges, If Applicable

Determined by individual Task Order.

- 17. Terms and Conditions of Government Purchase Card Acceptance**
The contractor will accept Government purchase cards for purchases up to \$25,000 but offers no discounts.
- 18. Terms and Conditions of rental, maintenance, and repair services (if applicable):** Not applicable.
- 19. Terms and conditions of installation (if applicable):** Not applicable
- 20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable):** Not applicable
- 20a. Terms and conditions for any other services (if applicable):** Not applicable
- 21. List of service and distribution points (if applicable):** Not applicable
- 22. List of participating dealers (if applicable):** Not applicable
- 23. Preventive maintenance (if applicable):** Not applicable
- 24a. Environmental Attributes, e.g., Recycled Content, Energy Efficiency, and/or Reduced Pollutants**
Not applicable.
- 25. Data Universal Number System (DUNS) Number**
Contractor Establishment Code (DUNS): **19-659-5607**
- 26. Notification regarding registration in Central Contractor Registration (CCR) database.** Amtec Corporation is registered in the Central Contractor Registration (CCR).
- 27. Security Clearances.**
Amtec Corporation's CAGE Code is **OEJL2**. Amtec holds a Top Secret Facility Clearance and most employees are cleared to the Secret level. In the event special security requirements are necessary, the ordering activities may incorporate, in their delivery order(s), a security clause in accordance with current laws, regulations, and individual agency policy. If any additional costs are incurred as a result of the inclusion of special security requirements such costs will be negotiated with the Schedule Contractor.

2. AMTEC CORPORATION OVERVIEW

Amtec Corporation is a privately-owned/independent company headquartered in Huntsville, Alabama, with over 375 employees. Amtec was founded in 1988 and has more than fifteen years experience supporting government and industry. Amtec has offices in Huntsville, AL, Havre de Grace, MD, Ft. Hood, TX, Detroit, MI, Anniston, AL, Eglin AFB, FL, and Ft. Rucker, AL.

Amtec provides design, development, integration, and fabrication services to commercial customers such as Boeing, Rockwell, Battelle, Lockheed and others. Some of Amtec's government agency customers include the U. S. Army Aviation and Missile Command (AMCOM), U. S. Army Redstone Technical Test Center (RTTC), U. S. Army Aviation Technical Test Center, U. S. Army Developmental Test Command (DTC), U. S. Army Space and Missile Defense Command (SMDC) and U.S. Army Corps of Engineers.

Amtec's main business base consists of Developmental Test and Evaluation Support for the U.S. Army. Amtec has established a reputation as being a quality, responsive, and cost effective contractor. Over the years, Amtec has had to provide a number of solutions to environmental tasks assigned under these support contracts. Amtec developed a cadre of environmental experts to provide these solutions. One of the latest major thrusts has been the design and construction of a capability to recycle and reuse obsolete missiles and rockets in the U.S. Army inventory. This project has exercised a full range of environmental planning and documentation, compliance services, waste management services, training, and software. Key points of this project include environmentally compliant process technology design and development for hazardous materials conversion, environmental assessments, site surveys, permitting, waste stream management and recycled product market development.

Amtec and its personnel are thoroughly familiar with the federal environmental regulations through their application on governmental facilities in which we perform support operations. Amtec has performed environmental assessments and compliance studies for a wide range of facilities and sites.

Amtec is also familiar with the state and local regulations in the states where operations have been performed. This includes the regulations of the State of Alabama (Alabama Department of Environmental Management), Tennessee, Florida, and Maryland. Amtec retains and employs consultants and experts in the laws and regulations of the various states where specific environmental assessments or analyses are conducted.

Amtec has a 34,500 square foot precision machining and fabrication center located in Huntsville, Alabama staffed with highly qualified precision machinists and skilled craftsmen. The center provides quick response for fabrication of mechanical and electronic devices and equipment needed for product and process development, testing, or production.

We invite you to contact us to find out more about Amtec Corporation and our commitment to customer satisfaction.

3. ENVIRONMENTAL SERVICE AREAS

Amtec Corporation has been approved for the following Special Item Number (SIN) FSS items:

SIN 899-1 Environmental Planning Services and Documentation

Under this SIN, Amtec will prepare:

- Environmental Assessments (EA)
- Environmental Impact Statements (EIS); and
- Environmental Economic, Technical, and Risk Analyses

The National Environmental Protection Act of 1969 (NEPA) established a nationwide policy of promoting environmental considerations in federal decision-making. NEPA requires that any federal agency proposing major action that significantly affects the environment must issue a detailed report describing the environmental impact of the proposed action. NEPA documentation and compliance requires a full range of technical, management, and support services. The documentation includes development of annotated outlines, implementation plans, and work plans based on the background information on a proposed federal activity and collection of environmentally relevant data from interviews, surveys, literature searches and site visits.

Environmental Assessment (EA): Environmental Assessment is a preliminary report, which helps to decide whether an Environmental Impact Statement (EIS) is necessary. An Environmental Impact Statement is a detailed document prepared to describe the effects of proposed activities on the environment. An EA briefly states the need for the proposed action, the alternatives and the environmental impacts. The EA also provides sufficient evidence and analysis to determine whether or not to prepare an EIS, or render a 'Finding of No Significant impact (FNSI)'. If it is decided in the early project stage that an in-depth EIS will be necessary, the EA is not required.

Environmental Impact Statements (EIS): "Environment" in Environmental Impact Statement is defined as the natural and physical environment and the relationship of the people with that environment. This means that the 'environment' considered in an EIS includes land, water, air, structures, living organisms, environmental values at the site, and the social, cultural and economic aspects. An 'impact' is a change in consequence that results from an activity. Impacts can be positive or negative or both. An EIS describes impacts, as well as ways to 'mitigate (or lessen)' impacts. Council for Environmental Quality (CEQ) regulations provide the recommended format and content of Environmental Impact Statements.

Economic, Technical, and Risk Analyses; The reports in this category cover a broad range of studies and analyses to support evaluation of options under consideration for environmental actions. Amtec services include technical and scientific investigations, risk assessments, feasibility studies, hazard assessment, safety analyses, health and safety studies, exposure assessments, dose-response evaluations, cost-benefit analyses, tradeoff studies, market assessments, economic analyses, technology assessments and value engineering studies. Amtec also provides data collection, validation and verification services; development of decision support systems and selection criteria; technical reviews and coordination; evaluation and coordination of comments; peer

reviews; and risk communication. Amtec services also include a variety of economic and socioeconomic analyses including compilation of economic and social parameters concerning proposed environmental actions, land use and development; economic and cost-benefit analyses; and life cycle cost analyses.

To deliver these services, Amtec assembles task-dedicated teams that have qualification and expertise in multiple disciplines required by the ordering Activity. Documentation of the environmental analysis process includes formulation of environmental criteria and the analytical approach to be used in conducting the analyses. Comprehensive task requirements are addressed along with milestones, staff assignments, scheduling, and deliverables as well as complete documentation. The Amtec staff is experienced in performing economic, technical and risk analyses.

SIN 899-2 Environmental Compliance Services

Under this SIN, Amtec provides five major categories of services:

- Environmental Site Assessments
- Environmental Compliance Audits
- Compliance Management Planning (Tracking, Reporting)
- Pollution Prevention, and
- Permit Application, Tracking and Coordination

Environmental Site Assessment: Environmental Site Assessment is a necessary step in any real estate transaction. In addition, environmental assessments are used to establish the 'Innocent landowner' defense provided by the Federal superfund laws or to obtain written assurances under state-specific investigations and clean-up programs. Sources of environmental contamination can exist on any type of property and may include underground and aboveground storage tanks, asbestos and lead contaminated building materials, construction on prior landfills and disposal sites, and past chemical use, storage and management activities on site. In performing national Phase I and Phase II Environmental Site Assessments, Amtec uses guidelines provided by the American Society of Testing Materials (ASTM).

Environmental Compliance Audits provide government agencies with an understanding of the laws and regulations that apply to their operations, assess their current compliance status, evaluate their existing environmental management systems, and recommend corrective actions to bring operations into compliance. They can be used to establish organization's environmental, safety and health policies and procedures. Amtec provides compliance audit services to help comply with existing Federal, state, and local environmental regulations and identify conditions that represent potential environmental liabilities. As a part of the compliance audit, a list of recommendations and a cost estimate for maintaining compliance is submitted to the management and facilities personnel. A pre-audit checklist is prepared to assist in identifying each facility's compliance areas. These compliance areas include wastewater discharges, air emissions, chemical spill control, underground storage tanks, OSHA requirements, community right-to-know reporting, hazardous waste generation, waste storage, waste treatment and disposal.

Compliance Management Planning includes development of management plans, policies, procedures, training, documentation, and assessments in support of compliance management programs and operations. Amtec provides technical expertise

and assistance in review, evaluation and interpretation of pending, modified, and final environmental laws, regulations, standards and policies. In addition to legal and regulatory reviews, assess the applicability of codes, standards and industry best management practices pertaining to environmental and waste management issues. Amtec provides monitoring and corrective actions; compliance reports and studies; management reviews and assessments; quality assurance plans; and facilitation of agency-wide planning and program implementation activities.

Amtec's compliance management planning, tracking and reporting services include development of information management systems, office procedures, and administrative controls to support environmental compliance and waste management activities. Also included are the reviews and development of data management programs, procedures and automated systems for compliance management including audit and appraisal findings.

Pollution Prevention: Pollution prevention (P2) services assists federal organizations in moving beyond minimum compliance with environmental regulations to identifying and implementing waste reduction activities that often reduce waste management costs. Amtec pollution prevention professionals can evaluate individual or organization wide processes and operations to identify P2 opportunities that can be achieved through source reduction or elimination, as well as waste stream reuse and recycling.

Typical P2 services offered by Amtec include:

- P2 planning and oversight
- P2 auditing/ assessments
- Preparing engineering cost analysis and evaluating funding requirements for implementation of P2 projects
- Performing regulatory reporting and internal organizational reports
- Outreach and training
- Creation or revision of P2 policies and procedures
- Establishing and instituting P2 affirmative ("green") procurement requirements

Once processes and operations that have the greatest potential to realize significant P2 benefits are identified and prioritized, Amtec will evaluate the candidates to determine whether alternative production methods or processes could be used to eliminate, reduce or recycle waste streams. When a P2 technology or strategy is selected for a process, the implementation of the chosen technology or strategy is monitored to ensure that its intended benefits are realized. The results of these efforts have been significant savings to the industry and the government in direct material and manpower costs and the benefits of increased compliance, reduced disposal volumes, and reduced waste management, transportation and storage costs.

All of the above environmental compliance services are offered by Amtec and include training and technical assistance, plan development, organizing and facilitating teams, establishing inventories of hazardous materials and waste streams, conducting pollution prevention and waste minimization opportunity assessments, and evaluating the economic and technical feasibility of process changes, material substitutions, and recycling alternatives. Our environmental specialists participate in program assessment and management reviews; develop databases to track progress of achieving pollution

prevention goals; and develop and implement pollution control technologies, processes and procedures.

Permit Application, Tracking and Coordination includes identification and development of required environmental permit applications and supporting documentation and analyses; permit planning, assessment, and tracking; permit application renewals and modifications; and interface and coordination with regulators and permitting officials.

To deliver these services Amtec will assist government agencies in defining the scope of work and review with them the major tasks and sub-tasks involved. From the task definition, Amtec's qualified environmental specialists will establish the boundary conditions and customer expectations regarding the outcome of the audit, environmental plan, survey, or permit. Once the agreement is reached with the customer agency, Amtec's extensive library of reference material will be consulted for up-to-date laws, regulations and policies that will drive the analysis toward resolution. Based on the findings, recommendations are formulated and a plan of action is developed to implement necessary actions. As a measure of quality control, all findings and plans are submitted to independent peer review prior to the final publication. Finally, the government agency is apprised of their specific environmental responsibilities.

SIN 899-3 Environmental Occupational Training Services

Under this SIN, Amtec offers three services:

- Standard off-the shelf training programs and courses
- Customized or tailored training for specific requirements
- Work studies, mission surveys, and assessment of training requirements

Amtec Corporation provides a wide range of existing courses developed to satisfy the training requirements of several DOD and federal government agency regulations, such as DA Regulation 385-64, AMC-Reg 350-4, ATEC-Reg 385-1, NAVSEA OP 5, Air Force Manual 91-201, CFR 29, CFR 40, and CFR 49. Training is designed to support hazardous tasks that are an integral part of environmental programs, land remediation projects, range clearance operations, building and site recovery, and RDT&E missions. The following off-the-shelf courses are available:

- Ammunition and Explosives Certification Training (16, 24, and 40 Hours)
- Explosives Safety Refresher Training (8 and 16 Hours)
- Explosive Ordnance Reconnaissance (16 and 24 Hours)
- Hazard Analysis & Risk Assessment for Hazardous Operations (8 and 16 Hours)
- Hazardous Materials Training – Awareness (4 Hours)
- Hazardous Materials Training – First Responder Ops Level (8 Hours)
- Hazardous Materials Training – Technician Level (24 Hours)
- Hazardous Waste Operations (HAZWOPPER) (40 Hours)
- Hazardous Materials Training – Incident Commander (16 Hours)
- DOT Hazardous Materials Training (8 and 16 Hours)
- Hazardous Materials Training – Refresher (8 Hours)
- Hazardous Waste Operations (HAZWOPPER) – Refresher (8 Hours)
- Asbestos Abatement Training - Worker Level (32 Hours)

Asbestos Abatement Training – Supervisor Level (40 Hours)
Asbestos Abatement Training – Refresher (8 Hours)
Confined Space Entry for Entrants, Attendants, and Supervisors (8 Hours)

Training may be customized or tailored to support customer specific missions, operations, and projects. Course modifications are accomplished by either tailoring the subject matter in an existing course or by conducting a work study or training assessment to determine specific training needs.

SIN 899-4 Waste Management Services and Software

Under this SIN, Amtec provides the following services:

Waste Studies, Investigations, and Regulatory Analyses
Waste Characterization and Treatability Studies
Environment, Safety and Occupational Health Program Development and Operation
Technology Evaluation
Waste Management Program support
Hazardous, Toxic and Reactive Materials Management Software
Hazardous Materials Inventory and Tracking Systems; and
Development of Information Systems and Decision Support tools

Waste Studies, Investigations, and Regulatory Analyses include a wide range of scientific, technical, engineering, and management studies and assessments to evaluate waste management options and program decisions. The work includes determination of the nature and extent of hazardous, toxic, energetics and mixed wastes including their quantification and identification of hazards, treatment, disposal and possibility of recycling. Specific services rendered include RCRA and CERCLA related investigations, assistance in preparing Part A and Part B permit applications, site investigations, Remedial Investigation/Feasibility Studies (RI/FS), underground storage tanks (UST) investigations, hazard assessments and ranking, exposure assessments, safety analyses, and risk assessments. Amtec provides asbestos management support including inspections, evaluation, asbestos surveys and abatement designs, chemical fate-transport modeling, hazardous waste inventories; spill prevention and countermeasure plans; pollution prevention studies; and regulatory and economic analysis.

Waste Characterization and Treatability Studies include laboratory analyses of contaminated soils, water and air samples, development of quality assurance/quality control procedures for data and samples collection, analysis, handling, and reporting.; media sampling, aquifer evaluations and environmental pathway analyses including development, use, or modification of computerized models. Sampling includes installation of monitoring wells and soil borings.

Environment, Safety, and Occupational Health Program Development and Operation includes environment and safety policy and procedures development, environmental and safety site surveys, environmental and safety assessments, hazardous materials assessments, development of a chemical inventory tracking system (including the pharmacy concept), audits, program evaluations, and training.

Technology Evaluation: Market factors, both economic and regulatory drive the feasibility of a technology. Three major factors of the technology evaluation are, life cycle cost analysis, sustainability of the technology its advantages in comparison with competing technologies. Amtec provides a full range of technology evaluations

Waste Management Program Support: This service includes studies, research, and site, facility, operational impact analyses pertaining to waste management issues. Amtec provides independent reviews and technical assessments of waste management activities, documentation, and system/equipment including environmental protection, health, and safety programs. We provide assistance in planning, scheduling, performing, and documenting facility operational readiness reviews. We develop and review waste management program plans and procedures addressing operation, maintenance, technical support, design control and support, and configuration management practices for waste management facilities. Amtec also develops waste management program tools such as review/evaluation guides, acceptance criteria, contractor requirements, and data management. We provide technical assistance in the preparation for and/or conduct of surveillance, audits, appraisals, inspections and reports of waste management operations and programs. We develop and review safety analysis reports and assessments, monitoring data, special studies and investigations, site development plans and methodologies for waste management activities. Amtec also assists in the review of project scoping, planning, scheduling, and budgeting activities associated with environmental restoration and waste management programs. Our staff performs independent cost evaluations and value engineering studies of waste management facilities and projects.

Amtec capabilities include complete waste management services incorporating applicable regulatory requirements and best management practices in the areas of permitting, reporting, storage, shipment, recycling, reusing, selling, and disposal. In addition our staff is experienced in planning, coordinating and conducting audits of both government and commercial treatment, storage and disposal facilities to evaluate the potential for liability and compliant disposition of client wastes and materials.

Amtec is aware that any program for hazardous waste management depends on two Federal laws: The Resource Conservation and Recovery Act (RCRA) of 1976 and its amendments and changes, which is concerned with proper management of newly generated hazardous waste, their transportation and operation of waste management facilities; and The Comprehensive Environmental, Response, Compensation, and Liability Act (CERCLA) of 1980 (also known as superfund) and its subsequent amendments that deal with uncontrolled release of hazardous materials into environment, and specifically uncontrolled hazardous waste sites (including abandoned dumps, inactive sites or those still operating).

Amtec's approach to waste management services begins with issue definition, followed by the development and application of standard analytical methods. For each project, tailored criteria for risk are developed along with the parameters of our technical evaluation. Where possible, similar projects are researched for lessons learned. The best method for the development of alternatives and possible options are selected in the comprehensive areas of feasibility analysis, economic analysis, hazard assessments, risk and exposure analysis. Special emphasis is placed in determining impact of regulatory uncertainty. Amtec maintains up-to-date core knowledge of regulatory status and changes continuously reviewing new and past interpretations issued by regulatory

agencies, technical clarifications, proposed rules, final rules, preamble language and legislative history. Hence, clients are provided real-time notices of potential problems and solutions to mitigate issues and minimize impacts to overall operations, compliance, and efficiency. With a view to health and safety risks, early involvement of regulatory authorities is important along with public information

Under this SIN, Amtec also provides three software services:

- Hazardous, Toxic and Reactive Materials Management
- Hazardous Materials Inventory and Tracking Systems
- Develop Information Systems and Decision Support tools

Increasingly, federal environmental managers are turning to information technology for efficient programmatic, policy and technical tools in hazardous materials management. Amtec keeps pace with emerging information technology, and from it, creates powerful environmental solutions for the clients from modeling complex environmental processes to designing and implementing hazardous materials management plans.

Hazardous, Toxic and Reactive Materials Management: Amtec provides a broad range of technical and management support services to assist clients with hazardous, toxic and munition materials management and operations. Services offered include development, implementation, and review of management problems, procedures and systems to ensure safe and compliant storage, handling, and disposal of hazardous, toxic and energetics materials. Amtec performs risk assessments; develops risk management plans; conducts audits and assessments including review of incident and deficiency reports; and provides training and quality assurance programs. We also evaluate, modify, and develop hazardous substances spill contingency plans, controls, and emergency response programs as required to comply with appropriate Federal and State regulations and agency directives.

Hazardous Materials Inventory and Tracking Systems includes design and implementation of the data management programs and procedures to track hazardous, toxic and other controlled materials, waste management, and compliance activities. This service includes furnishing Materials Safety Data Sheets (MSDS) and the design, development, and application of hazardous materials tracking, reporting and compliance software. The Hazardous Substance Management System (HSMS) is the Defense Department's standard tool for tracking hazardous substances. HSMS allows Army installations to monitor the procurement, use release and disposal of all hazardous substances. It also helps installations cut environmental reporting costs, reduce material inventories, prevent pollution and integrate smart business practices into "Hazmat" management. One of the most effective monitoring methods is the Hazardous Materials Control Center (HMCC) concept. The HMCC idea – also known as the "pharmacy" concept - requires close control of hazardous materials. Many centers use HSMS in conjunction with MSCC to better manage hazardous substances. By setting up an HMCC as a central distribution point, an installation can monitor and track hazardous substances from the time they arrive on the installation, through their use, release and disposal. All departments receive their hazardous materials from the HMCC. Departments also return unused hazardous materials, report any release to the environment and report all hazardous disposal amounts to the HMCC. HSMS can track all of these activities – and more. Amtec can assist you in installing a system that meets your needs.

Information Systems and Decision Support Tools: The key to accomplishing Amtec's goal of providing superior environmental advisory services at a lower cost is to make better use of available information in decision-making in every aspect of daily operations. This means that information seemingly disconnected parts of an organization, e.g. hazardous waste generation, accounting, finance, analytical chemistry must be brought together in user friendly graphical displays so that managers can readily use it for decision making. An example might be to reduce hazardous waste disposal cost by assembling and using information from several key databases, integrating them, and presenting the results in an easy-to-analyze graphical form. This could lead to coordination of waste collection and taking advantage of required minimum volumes for disposal and optimum pricing formulas for transportation and disposal. These databases could consist of:

- Hazardous waste manifests and tracking the location and volume of waste
- Hazardous waste characterization data tracking the type of hazardous material and its properties.
- Material Safety data Sheets (MSDS) providing information how to handle the materials, and
- Information on the transportation, storage, disposal facilities (TSDFs), location, costs, minimum pick-up volumes and other related information.

A typical Hazardous Materials Management Program includes measures for the elimination, reduction, or control of hazardous materials. The following tasks will be tailored to reflect the program and acquisition phase:

- Organization structure
- Hazardous materials identification/Analysis/Evaluation
- Environmental and Health Evaluation
- Trade-off analysis documentation and recommendations
- Milestones and schedules
- Functional program integration

Amtec's staff of highly trained personnel is experienced with providing technical review and evaluation of proposed controls needed to prevent or mitigate the consequences of hazards. Through the application of safety evaluation screen comprehensive analyses can be performed. The introduction of information and computer based tools is dependable strength of our advisory services capability. In addition, support for activities involving verification, control and containment, the evaluation of training of personnel involved in the handling, transportation of hazardous materials, the control, accountability, and safety of munitions materials are among the services Amtec is capable of applying in the management and tracking of these hazards.

SIN 899-5 Reclamation, Recycling and Disposal Services

Under this SIN Amtec can provide design, establish and/or operate recycling and reuse systems and /or waste management to include design and feasibility studies of recycling systems, waste materials collection, reuse assessments, inventory, waste materials modifications, destruction, inventory transfer and/or disposal after compliance with GSA Office of Personal Property Management requirements found in FMR 101-42, 102-36, and 102-37 (as applicable), and other regulations.

Types of waste management and/or recycling and reuse systems included (but not limited to) are:

Excess Inventory; Surplus inventory; Management and oversight of HAZMAT disposal operations; Confiscated materials; Electronic equipment; Batteries; Chemicals; Solids; Biological; Munitions; and Waste Minimization/Pollution Prevention initiatives.

Amtec can provide complete recycling and reuse (where possible) of excess/surplus inventory of complete munitions including disassembly, high explosive warheads, rocket motors, electronics, and other associated components and subassemblies.

Note: This effort does not include nuclear or radioactive waste.

Amtec presently provides a reclamation, recycling, reuse, and disposal service for obsolete munitions for the U.S. Army under a contract issued by the Strategic Defense Command for the Anniston Army Munitions Center in Anniston, AL.

Amtec has been a leader in the design and establishment of a reclamation, recycling, and reuse capability for the U.S. Army for tactical missiles. The design of this complex system was started under several contracts with the Corps of Engineers. This capability requires the in-depth knowledge of both federal (EPA, DoD, and DOT) and state regulations and reporting, and, since this capability includes explosives, requires detailed knowledge of the federal and state explosive safety, handling and transportation regulations.

SIN 899-6 Remote Advisory Services

Amtec's will set-up and provide an environmental information hot line, a single source of all environmental policies, legal aspects, control equipment and systems, site-specific engineering, innovative and emerging and state-of-the-art pollution abatement technologies, life cycle costs and compatible products information for any agency or group. Amtec will provide close coordination and networking with other hotlines established by defense services. Queries in environmental affairs will be responded to in a short turnaround time. Amtec personnel have manned and run a major hotline for at an Army Command level for the past several years.

Remote Advisory Services are offered via telephone, facsimile, and by website. The recipients of the advisory services will receive guidance on the following subjects:

- EPA's environmental laws, rules and regulations
- DoD's environmental policies
- Environmental regulations in foreign countries
- Definitions of hazardous materials
- Alternates to ozone depleting chemicals and non-chemical cleaning technologies
- Environmentally acceptable refrigerants and fire extinguishers
- Impact of substitute chemicals and technologies on facility's waste management
- Innovative, emerging and sustainable pollution control technologies
- Emergency response to hazardous materials spills,
- OSHA regulations on toxics, and NIOSH /ACGIH defined chemical exposure limitations,

- Material Safety Data Sheets (MSDS) and technical data packages (physical and chemical properties).
- Health hazard assessments
- Environmentally preferred refrigerants and fire extinguishing agents
- Impact of environmentally compatible products substitution on existing waste disposal systems

To provide 'Remote Environmental Advisory Services' Amtec has formed a talent pool of highly qualified and experienced personnel of various disciplines and backgrounds and a supporting network of industry-leading experts in environmental technology and regulatory specialty areas.

SIN 899-7 Geographic Information Systems (GIS)

Amtec provides GIS design, development, analyses, and products including the following:

- GIS System design and development
- Mapping\Cartography
- Site Selection
- Mitigation Pattern Analysis
- Cultural and Social Factor Analysis
- Emergency Preparedness Planning

The implementation of a Geographic Information System (GIS) facilitates the compilation and analysis of many feature data sources involved in environmental planning, monitoring, and remediation. The use of a GIS is preemptive; allowing factors that influence the quality of a site to be acknowledged and evaluated before investment is made in its development. The use of a GIS also allows an assessment of the potential impacts to neighboring areas, providing notification to regulatory and emergency response agencies that may need to revise infrastructure and policies to address potential new scenarios.

Amtec's technical staff is well versed in a variety of raster and vector GIS packages including ESRI's Arc Info and Arcview software and ERDAS's IMAGINE. Amtec has experience in project design, database development, and analysis techniques. Also, Amtec possesses a detailed knowledge of currently existing data sources (governmental, academic, and proprietary), important since the use or integration of previously developed data layers allows greater resources to be directed to site-specific data acquisition. We have the capability to capture spatial data through scanning, digitizing, and field collection with GPS. Amtec staff is familiar with coordinate systems, conversion and projection techniques, and image geo-referencing. We have worked with public (e.g. SDTS and TIGER) and proprietary (e.g. ESRI and DXF) data formats and converted data between these mediums.

Amtec staff have applied GIS technologies to many environmental and military applications, including:

- Digital Terrain Modeling
- Atmospheric Analysis
- Modeling and Simulation
- Radiometric Signature Modeling
- Remote Sensing
- Hydrologic Modeling
- Soil Sampling and Analysis
- Contaminant Transport Modeling
- Meteorological Analysis

Amtec has capability that includes the following operational activities:

Mapping\Cartography: Our ESRI and ERDAS software will allow us to produce detailed, production quality, maps and reports to disseminate data internally and to required external monitoring agencies.

Site Selection: GIS technology has great utility when selecting appropriate sites for environmentally sensitive activities. Buffering and overlay analysis allow factors such as zoning, noise ordinances, proximity to required infrastructure, and minimizing potential hazards to population centers to be addressed. Areas such as wetlands, protected habitats, and Indian lands can be identified and excluded from potential sites.

Mitigation Pattern Analysis: Coverages with information such as the permeability of local soils, the porosity of the substrate, the locations of faults, and the extents of aquifers provide an awareness of avenues of contaminant transport. The potential paths of airborne contaminants, including radiation and particulates, can be modeled and incorporated into a sites suitability analysis.

Cultural and Social Factors: An analysis of the population characteristics in areas surrounding a site can ensure that potential impacts to groups with greater vulnerability (children, the elderly) are minimized.

Emergency Preparedness Planning: GIS analysis may be used to tailor emergency response plans to revised risks that environmentally sensitive activities may impose on a community.

SIN 899-8 Remediation Services

Under this SIN, Amtec will provide services in three areas:

- Underground and Aboveground Storage Tank Management
- Soil Remediation Services
- Groundwater Remediation Services

Underground and Aboveground Storage Tank Management: Amtec provides a wide range of services to meet the needs of its clients in the area of chemical and petroleum underground storage tanks (UST) and dispensing systems. Services include testing, repair, removal, replacement, modification and installation of tanks, plus the comprehensive design, engineering and permitting functions necessary for proper management of small and large tank projects from inception through completion.

Older tanks without corrosion protection are a liability for owners and operators, and should be removed or replaced as soon as practical. A typical tank removal project includes:

- Permit acquisition, coordination and scheduling for inspection by regulatory agencies
- Evacuation, triple-rinsing, degassing, certification and removal of tank(s) in compliance with State and local regulations
- Disposal of tanks, dispensers, related piping and rinsate in accordance with current applicable environmental regulations
- Soil sampling in tank excavation

- Backfilling of excavation and compacting, according to local city or county specifications, where required
- Preparation of a tank closure report by a Registered Geologist

Newer single-walled tanks with corrosion protection, such as those made of fiberglass or fiberglass-coated steel can often be upgraded with leak detection to meet Federal and state requirements. Double-walled UST and integral leak detection and monitoring systems of various makes and sizes from different manufacturers are recommended and include purchase, delivery, installation and start-up of new tanks and dispensing systems.

Amtec also designs, engineers, installs and tests aboveground storage tank or tank farms including piping and instrumentation. New aboveground tanks are designed with fire protection and impact resistance in mind. These can typically be installed at a 20% to 30% savings compared to an underground tank installation.

Soil Remediation Services: Amtec offers a variety of soil remediation processes. For smaller soil remediation projects, excavation and off-site treatment of contaminated soil is usually the most economical option. We bring experienced project managers, hazmat-certified equipment operators, reputable waste haulers, and licensed treatment facilities to a client's project.

For larger sites, on-site soil remediation services are provided through the use of trailer-mounted rotary kiln-type Mobile Treatment Units (MTU). The trailer-mounted systems are designed to reduce the concentrations of petroleum hydrocarbons or other hazardous chemicals in contaminated soils to acceptable levels by means of aeration and vapor extraction or chemical oxidation. Units are equipped with emission control features, and can be connected readily to a thermal oxidizer or carbon adsorber for *in-situ* destruction of volatile organic compounds.

Excavated and stockpiled soil on the ground can be remediated by bio-treatment. Bio-treatment can be achieved by introduction of cultured bacteria along with extra-cellular enzymes, oxygen and nutrients to hydrocarbon-contaminated soil. The bacteria consume hydrocarbons to reduce or eliminate contamination.

In-situ soil remediation can be achieved by

- (1) Air sparging, where gas (usually air or oxygen) is injected under pressure into well(s) installed to volatilize contaminants adsorbed to the soil matrix. Volatilized contaminants migrate upward and are removed upon reaching the vadose zone, typically through soil vapor extraction;
- (2) Horizontal wells, especially useful when contaminant plume covers a large area and has linear geometry, or when surface obstructions are present. This technology can be used in the application of various remediation techniques such as ground-water and/or non-aqueous phase liquid extraction, air sparging, soil vapor extraction, *in situ* bioremediation, *in situ* flushing, hydraulic and pneumatic fracturing, etc.;
- (3) Hydraulic and Pneumatic Fracturing: Hydraulic fracturing involves injection of high pressure water whereas pneumatic fracturing involves injection of highly pressurized air into consolidated sediments to extend existing fractures and create a secondary fracture network to increase soil permeability and facilitate remediation by vapor extraction, biodegradation and thermal treatments

- (4) Thermal Enhancement where, use of steam, heated water, or radio frequency (RF) or electrical resistance (alternating current or AC) heating to alter temperature-dependent properties of contaminants in situ to facilitate their mobilization, solubilization, and removal. Volatile and semi-volatile organic contaminants may be vaporized; vaporized components then rise to the vadose zone where they are removed by vacuum extraction and treated.

Groundwater remediation: Impacted groundwater may be pumped out via an extraction well and remediated at the surface by air stripping. Although air stripping is a well-proven and commonly used method for removing volatile and some semi-volatile contaminants from groundwater and industrial wastewater, it is also a dynamic technology undergoing continuous refinement.

In-situ remediation is achieved by bio-enhancement through introduction of bacteria, oxygen and nutrients. Air sparging is a proven method of removing dissolved phase volatile petroleum hydrocarbons from groundwater by moving them into the vapor phase. Vapors ultimately are pumped out and treated using one of the listed methods. Light non-aqueous phase liquid (LNAPL) and initiate vadose zone remediation through bio venting. In bio venting, air is drawn through the impacted vadose zone via extraction wells equipped with low vacuums to promote biodegradation of organic compounds.

4. AMTEC LABOR CATEGORIES

GSA Environmental Services Labor Category and Position Descriptions

Task Management

Sr. Program Manager

Master's degree in Science, engineering or management and 18 years experience, with 10 years experience in the management of projects or programs, contracts and resources

Plans, organizes, and directs program or project to ensure that all contractual terms are completed in a timely and cost effective manner. Serves as the customer point of contact for program or project. Manages and controls funds and resource assignments for the program.

Project Director

Bachelor's degree and 15 years experience, with 8 years experience in the management of projects or programs, contracts and resources

Plans, organizes, and directs program or project to ensure that all contractual terms are completed in a timely and cost effective manner. Serves as the customer point of contact for program or project. Manages and controls funds and resource assignments for the program.

Program Manager

Bachelor's degree and 12 years experience, with 5 years experience in the management of projects or programs, contracts and resources

Plans, organizes, and directs program or project to ensure that all contractual terms are completed in a timely and cost effective manner. Serves as the customer point of contact for program or project. Manages and controls funds and resource assignments for the program.

Project Leader

Bachelor's degree and 8 years experience, with 3 years experience in the management of projects or programs, contracts and resources

Plans, organizes, and directs program or project to ensure that all contractual terms are completed in a timely and cost effective manner. Serves as the customer point of contact for program or project. Manages and controls funds and resource assignments for the program.

Principal Investigator

Bachelor's degree and 3 years experience, with at least 1-year experience in the technical management of projects or programs

Responsible for leading investigations for a program or project. Supervises subordinate scientists, engineers, analysts, and technicians in those investigations. Develops technical scopes of work, prepares schedules and cost estimates.

Environmental**Principal Environmental Scientist/Engineer**

Bachelor's degree in science or engineering and 15 years experience

Plans and leads technical staff in environmental studies and investigations.

Sr. Environmental Scientist/Engineer

Bachelor's degree in science or engineering and 10 years experience

Leads technical staff in environmental studies and investigations.

Environmental Scientist/Engineer

Bachelor's degree in science or engineering and 5 years experience

Performs environmental studies and investigations

Associate Environmental Scientist/Engineer

Bachelor's degree in science or engineering

Supports environmental studies and investigations

Regulatory Specialist

Bachelor's degree in science or engineering and 3 years experience in environmental regulation application

Provides assistance in environmental studies and investigations as it relates to state and federal environmental regulations

Air Quality Specialist

Bachelor's degree in science or engineering and at least 5 years experience in air quality regulation compliance

Provides assistance in environmental studies and investigations as it relates to air quality matters.

Land Use Specialist

Bachelor's degree in science, engineering, or management and at least 5 years experience in environmental land use classification and planning

Provides expertise in land use classification and planning for environmental plan and procedure development and execution.

Economic Analyst

Bachelor's degree in economics, finance, public policy, or equivalent and at least 8 years experience with 3 years specialized experience in economic or public policy analysis.

Provides expertise in economic impacts as they relate to environmental plans or procedures.

Environmental/Engineering Technician VI

Independently plans and accomplishes complete projects or studies of broad scope and complexity. Or serves as an expert in a narrow aspect of a particular field of engineering, e.g., environmental factors affecting electronic engineering. Complexity of assignments typically requires considerable creativity and judgment to devise approaches to accomplish work, resolve design and operational problems, and make decisions in situations where standard engineering methods, procedures, and techniques may not be applicable. Supervisor or professional engineer provides advice on unusual or controversial problems or policy matters; completed work is reviewed for compliance with overall project objectives. May supervise or train and be assisted by lower level technicians. Performs, at this level, one or a combination of such typical duties as:

- Prepares designs and specifications for various complex equipment or systems (e.g., a heating system in an office building, or new electronic components such as solid state devices for instrumentation equipment).
- Plans approach to solve design problems; conceives and recommends new design techniques; resolves design problems with contract personnel, and assures compatibility of design with other parts of the system.
- Designs and coordinates test set ups and experiments to prove or disprove the feasibility of preliminary design; uses untried and untested measurement techniques; and improves the performance of the equipment. May advise equipment users on redesign to solve unique operational deficiencies.
- Plans approach and conducts various experiments to develop equipment or systems characterized by (a) difficult performance requirements because of conflicting attributes such as versatility, size, and ease of operation; or (b) unusual combination of techniques or components. Arranges for fabrication of pilot models and determines test procedures and design of special test equipment.

Environmental/Engineering Technician V

Performs nonroutine and complex assignments involving responsibility for planning and conducting a complete project of relatively limited scope or a portion of a larger and more diverse project. Selects and adapts plans, techniques, designs, or layouts. Contacts personnel in related activities to resolve problems and coordinate the work; reviews, analyzes, and integrates the technical work of others. Supervisor or professional engineer outlines objectives, requirements, and design approaches; completed work is reviewed for technical adequacy and satisfaction of requirements. May train and be assisted by lower level technicians. Performs at this level one or a combination of such typical duties as:

- Designs, develops, and constructs major units, devices, or equipment; conducts tests or experiments; analyzes results and redesigns or modifies equipment to improve performance; and reports results.
- From general guidelines and specifications (e.g., size or weight requirements), develops designs for equipment without critical performance requirements which are difficult to satisfy such as engine parts, research instruments, or special purpose circuitry. Analyzes technical data to determine applicability to design problems; selects from several possible design layouts; calculates design data; and prepares layouts, detailed specifications, parts lists, estimates, procedures, etc. May check and analyze drawings or equipment to determine adequacy of drawings and design.
- Plans or assists in planning tests to evaluate equipment performance. Determines test requirements, equipment modification, and test procedures; conducts tests using all types of instruments; analyzes and evaluates test results, and prepares reports on findings and recommendations.

Environmental/Engineering Technician IV

Performs nonroutine assignments of substantial variety and complexity, using operational precedents which are not fully applicable. Such assignments, which are typically parts of broader assignments, are screened to eliminate unusual design problems. May also plan such assignments. Receives technical advice from supervisor or engineer; work is reviewed for technical adequacy (or conformity with instructions). May be assisted by lower level technicians and have frequent contact with professionals and others within the establishment. Performs at this level one or a combination of such typical duties as:

- Develops or reviews designs by extracting and analyzing a variety of engineering data. Applies conventional engineering practices to develop, prepare, or recommend schematics, designs, specifications, electrical drawings and parts lists. Examples of designs include: detailed circuit diagrams; hardware fittings or test equipment involving a variety of mechanisms; conventional piping systems; and building site layouts.
- Conducts tests or experiments requiring selection and adaptation or modification of a wide variety of critical test equipment and test procedures; sets up and operates equipment; records data, measures and records problems of significant complexity that sometimes require resolution at a higher level; and analyzes data and prepares test reports.
- Applies methods outlined by others to limited segments of research and development projects; constructs experimental or prototype models to meet

engineering requirements; conducts tests or experiments and redesigns as necessary; and records and evaluates data and reports findings.

Environmental/Engineering Technician III

Performs assignments that are not completely standardized or prescribed. Selects or adapts standard procedures or equipment, using fully applicable precedents. Receives initial instructions, equipment requirements, and advice from supervisor or engineer as needed; performs recurring work independently; work is reviewed for technical adequacy or conformity with instructions. Performs at this level one or a combination of such typical duties as:

- Constructs components, subunits, or simple models or adapts standard equipment. May troubleshoot and correct malfunctions.
- Follows specific layout and scientific diagrams to construct and package simple devices and subunits of equipment.
- Conducts various tests or experiments which may require minor modifications in test setups or procedures as well as subjective judgments in measurement; selects, sets up, and operates standard test equipment and records test data.
- Extracts and compiles a variety of engineering data from field notes, manuals, lab reports, etc.; processes data, identifying errors or inconsistencies; selects methods of data presentation.
- Assists in design modification by compiling data related to design, specifications, and materials which are pertinent to specific items of equipment or component parts. Develops information concerning previous operational failures and modifications. Uses judgment and initiative to recognize inconsistencies or gaps in data and seek sources to clarify information.

Environmental/Engineering Technician II

Performs standardized or prescribed assignments involving a sequence of related operations. Follows standard work methods on recurring assignments but receives explicit instructions on unfamiliar assignments; technical adequacy of routine work is reviewed on completion; nonroutine work may also be reviewed in progress. Performs at this level one or a combination of such typical duties as:

- Following specific instructions, assembles or constructs simple or standard equipment or parts; may service or repair simple instruments or equipment.
- Conducts a variety of tests using established methods. Prepares test specimens, adjusts and operates equipment, and records test data, pointing out deviations resulting from equipment malfunction or observational errors.
- Extracts engineering data from various prescribed but non-standardized sources; processes the data following well-defined methods including elementary algebra and geometry; presents the data in prescribed form.

Environmental/Engineering Technician I

Performs simple routine tasks under close supervision or from detailed procedures. Work is checked in progress or on completion. Performs one or a combination of such typical duties as:

Assembles or installs equipment or parts requiring simple wiring, soldering, or connecting.

- Performs simple or routine tasks or tests such as tensile or hardness tests; operates and adjusts simple test equipment; records test data.
- Gathers and maintains specified records of engineering data such as tests, drawings, etc.; performs computations by substituting numbers in specified formulas; plots data and draws simple curves and graphs.

Science Specialists

These categories are specialist scientists in the fields of Biology, Geology, Archaeology, and other specialist scientist fields.

Principal Specialist Scientist

Master's degree in science specialty or related science and 9 years experience

Plans, leads staff, perform, and perform testing and analysis of specialty science related functions. Provides specialty science consulting services to management, public and private sector entities; plans and develops projects concerned with specific, unique or controversial problems; provides final peer review of complex or controversial documents, scientific evaluations, tests, reports and studies, recommendations, and/or criteria; provides final review of procedures and recommend changes based on prevailing scientific evidence; supervise scientific/technical staff; directs and/or plans and implements a component of an environmental program; directs and/or develops and monitors projects; directs and/or prepares reports assessing use, distribution, fate, exposure, and probability of adverse effects of chemicals and/or radiological constituents or other hazardous substances in specific use situations; directs and/or develops and /or provides final detailed review of risk assessments and makes recommendations for improvement where risk level is unacceptable; develops understandable uncertainty analyses; prepares information and assessments of public concerns; presides and/or presents information at public meetings or educational forums on environmental issues; develops liaison and working relationships with customer representatives.

Senior Specialist Scientist

Bachelor's degree in science specialty or related science and 5 years experience

Leads staff, performs, and/or performs tests and analyses of specialty science related environmental functions and may include surveys and analysis. Performs complex scientific analyses; directs the development of recommendations for project solutions; characterizes the risks posed by potential site contaminants; evaluates potential remedial options to address those risks; selects the best remedial alternative based on overall protectiveness, complies with regulations and requirements, long-term effectiveness and permanence, short-term effectiveness, feasibility of implementation, and cost; performs peer review of scientific projects, studies, or applications and makes recommendations; develops technical scientific management guidelines; resolves complex project specific technical and regulatory issues; may be responsible for technical project management in the science specialty area to include developing the scope of work, budgeting, scheduling, reporting, implementing field projects, and approving scientific documents.

Specialist Scientist

Bachelor's degree in science specialty or related science and 2 years experience

Performs specialty science related environmental functions including surveys, testing and analyses. Provides technical support in planning and/or designing of major scientific projects, studies, or applications; conducts research and analysis of scientific data; performs scientific analyses and consults with the task leadership about specific tests,

procedures, and results; assures the scientific analysis performed complies with federal and state regulations; prepares reports and/or maps; completes problem assessment and suggests best management practices; evaluates qualitative and quantitative chemical and/or physical analyses of biological, geological, environmental, or agricultural samples or data; interprets test results and compares with determined standards and limits; performs site inspections and field oversight; identifies and evaluates scientific samples and determines need for further testing.

Associate Specialist Scientist

Bachelor's degree in science specialty or related science

Assists in performance of specialty science related functions including testing and analyses. Performs scientific research for designed studies or applications; evaluates materials for compliance to standards and specifications; prepares standard solutions for calibration and analyses; compares data and historical records for trend verification; develops reference files, comparison charts, and graphs on laboratory data; assists with site inspections and field oversight.

Archaeological Technician III

- Serves as lead archeological technician, under the general supervision of field director/project archaeologist, and performs skilled tasks at archaeological field sites. Conducts hand excavations, completes plan and profile maps of excavated units, completes standard feature and level forms, screens soils to recover artifacts. Perform flotation of soil samples, and shovel testing. Packages/labels archaeological artifacts. Maintains field equipment and supplies.
- Conducts inventories of forest cultural resources in areas of proposed forest service projects. Researchers reference materials such as state and national register files, historic documents, archeological remains. Identifies and records historic and prehistoric cultural resource sites. Prepares Archeological Reconnaissance Reports (AAR's) and maps.
- Insures that archeology work assignments are carried out in safe, timely manner according to established standards and procedures. Maintains the Archeological Reconnaissance schedule by estimating and reporting an expected time of completion of each project and updating the project planning board. Reviews work in progress to see that standards for pre-field research, survey design, site recording, graphics and final report are being met.
- Advises other employees on methods of cultural resource inventory and provides written instructions, research materials and supplies to all involved in planning and operation of natural resource activities. Provides site recording and implements field data strategies.
- Provides leadership to at least three lower graded Archeological Aids or Technicians. Leadership responsibilities are regular and recurring and occupy about 25 percent of the work time. As crew leader assures the work assignments of employees are carried out. Assigns tasks, monitors status, and assures timely accomplishment of workload. Instructs employees in special tasks and job techniques. Checks work in progress and amends or rejects work not meeting established standards. Reports performance, progress, etc., of employees to supervisor.

Archaeological Technician II

Under the general supervision of field director/project archaeologist, performs skilled tasks.

- Conducts hand excavations, completes plan and profile maps of excavated units, completes standard feature and level forms, screens soils to recover artifacts. Performs flotation of soil samples, walk over, and shovel testing. Catalogs, packages/labels archaeological artifacts. Maintains field equipment and supplies. Conducts inventories of cultural resources in areas of proposed projects.
- Researchers reference materials such as state and national register files, historic documents, archeological reports, maps and aerial photos, and interviews source individuals concerning project areas. Performs on-the-ground area searches for surface and subsurface evidence of historic and prehistoric archeological remains. Identifies and records historic and prehistoric cultural resource sites.
- Prepares Archeological Reconnaissance Reports (AARF's) and maps. Insures that archeology work assignments are carried out in safe, timely manner according to established standards and procedures. Maintains the Archeological Reconnaissance schedule by estimating and reporting and expected time of completion of each project and updating the project planning board. Review work in progress to see that standards for pre-field research, survey design, site recording, graphics and final report are being met. Advises other employees on methods of cultural resource inventory and provides written instructions, research materials and supplies to all involved in planning and operation of natural resource activities.

Archaeological Technician I

Under the direct supervision of archaeological crew chiefs and under the general supervision of field director/project archaeologist performs unskilled and semi- skilled tasks at archaeological field sites.

- Assists crew chief in activities associated with the excavation of project areas and found features. Walks over project searching for archaeological materials such as historic and prehistoric remains.
- Excavates, screens, back-fills excavated areas. Assists in preparation of sketch maps and forms, and field photography. Conducts simple surveys using compass, topographical map and aerial photographs. Determine the exact locations of sites and marks them on maps and/or aerial photographs. Records information on archeological site survey form and prepares simple reports. Cleans, packages, and labels artifacts recovered from inventories and excavations and assists in the flotation of soil samples.

Historian

Master's degree in History, Anthropology, or related area and 4 years experience

Researches and interprets historical, cartographic, and geographic aspects of project area history; consults with local, state, and federal agencies regarding historic projects; researches, writes text, and determines location of historic areas; makes on-site investigations and reviews; responds to historical inquiries; advises local and county historical groups on historical projects; writes reports and makes presentations; provides aid and guidance to project manager and project personnel.

GIS/Computer Programming**Principal GIS Specialist**

Master's degree in Geography, Computer Science or related area and 10 years experience in GIS development and application

Plans, designs, conducts, and oversees major geographic information system (GIS) development and analysis projects; serves as technical lead and department expert in GIS technology and applications.

Researches GIS proposals; designs investigations and sets objectives and work plans; conducts or oversees projects; coordinates with customer entities to accomplish specific project goals; drafts progress reports; solves complex technical problems; provides functional guidance or team leadership to professional and technical staff assigned to a specific GIS project; serves as senior technical advisor regarding application and implementation of GIS and digital cartography methodologies; researches and designs new or revised methodologies; performs digital computer-assisted mapping and database functions; operates GIS hardware; develops, modifies, and maintains computer programs; trains users in computer systems use, spatial analysis and related technologies; provides guidance to users to maximize productivity and equipment use; converts information from maps and photographs into computer-compatible format; applies sampling procedures to assess map or data base accuracy; may perform GIS system administration; may supervise staff.

Sr. GIS Specialist

Bachelor's degree in Geography, Computer Science or related area and 8 years experience in GIS development and application

Plans and conducts complex geographic information system (GIS) analyses; provides technical assistance to users; Plans GIS projects; designs spatial and relational databases; uses mathematical functions to analyze spatial and relational data; builds spatial data layers; applies complex combinations and sequences of specialized computer programs to process spatial and relational data; designs and produces thematic maps; interprets results of analysis using multivariate statistical techniques.

Analyzes existing computer programs and makes enhancements; tests new computer programs to determine usefulness; recommends or makes program alterations; designs and develops computer programs.

Trains users in computer system use, spatial analysis and related technologies; provides guidance to the users to maximize productivity and equipment use.

GIS Specialist

Bachelor's degree in Geography, Computer Science or related area and 2 years experience in GIS application and use

Processes geospatial data and provides basic geographic information system (GIS) support including data maintenance and map product generation; works under the supervision of GIS staff on small individual GIS projects. Performs implementation of specialized programs used within a single project. Develops and edits GIS datasets, processes aerial photographs and imports GIS data from a variety of sources; Troubleshoots data errors and field verification and data collecting. Using a working knowledge of GIS software, codes, edits, and joins attributes to geographic features and manipulates GIS datasets. Writes GIS programs using ARC-INFO or similar software to automate GIS tasks; prepares cartographically correct map products through the use of software to ensure user information and design needs are met; and operate and maintain GIS equipment.

Sr. Computer Scientist

Bachelor's degree in Computer Science, Mathematics or related area and 12 years experience

Plans and develops applications and performs work involved in one or more of the phases of developing software products, services, or software used in products provided to external customers. May work with operating system software.

Computer Scientist

Bachelor's degree in Computer Science, Mathematics or related area and 8 years experience

Performs work involved in one or more of the phases of developing software products, services, or software used in products provided to external customers. May develop applications or work with operating system software.

Computer Analyst

Bachelor's degree in Computer Science, Mathematics or related area and 4 years experience

Supports all aspects of applications programming; analyzes and develops program specifications to meet user needs; maintains and modifies vendor software packages.

Programmer II

Bachelor's degree in Computer Science, Mathematics or related area and 6 years programming experience

Performs work involved with the design, development, testing and documentation of computer programs that support external customers. May also troubleshoot code, specify programming tools, interface with technical staff, and provide status reporting.

Programmer

Bachelor's degree in Computer Science, Mathematics or related area and 2 years programming experience

Tasks include coding software to meet the software requirements. May also troubleshoot code, specify programming tools, interface with technical staff, and provide status reporting.

Training**Training Manager**

Bachelor's degree and 10 years experience in the design and presentation of safety or environmental training courses.

Plans, develops, implements, evaluates and coordinates specialized environmental and safety training courses.

Determines customer requirements for specialized training courses; researches and assesses training needs; establishes training programs' objectives and designs appropriate courses; develops training material such as text, video, and slides with subject matter experts and develops course outlines and lesson plans; presents and evaluates training; monitors instructors and courses offered to ensure compliance with standards; may develop computer-assisted training courses or produce video instructional courses.

Oversees maintenance of training records and resource library; coordinates scheduling of training courses and facilities; coordinates agreements for development and presentation of training by subject matter experts and may coordinate instructor training seminars. Coordinates courses for certification authorities.

Principal Instructor

Bachelor's degree and 4 years experience in the design and presentation of training courses.

Determines training goals and develops curriculum; plans class activities; administers and interprets tests; determines appropriate instructional methods; assists in the

development of course materials; provides individual and group instruction; evaluates students' progress; obtains supplies for class; maintains students' records.

Instructor

Bachelor's degree and 2 years experience in the presentation of training courses. Provides individual and group instruction in environmental and safety subjects. Obtains supplies for class and maintains students' records.

Administration**Sr. Administrator**

High School Diploma and 6 years experience in administrative support. Performs general administrative and clerical duties necessary to meet the needs of the department or project, and assumes responsibility for other duties based on the degree of knowledge of operations, such as, prepares designated reports for management; responds to inquires and provides information in accordance with policies and procedures.

Administrator

High School Diploma and 4 years experience in administrative support. Performs general administrative and clerical duties necessary to meet the needs of the department or project, and assumes responsibility for other duties based on the degree of knowledge of operations; prepares designated reports for management; responds to inquires and provides information in accordance with policies and procedures.

Clerical

High School Diploma and 1 years experience in administrative support. Performs a combination of clerical tasks to support office, business, or administrative operations.

Multimedia Specialist

Bachelor's degree and 8 years experience in the preparation of multimedia presentations. Prepares graphic and multimedia presentations. Prepares audio, video, scripts, and final presentations. Supervises production of graphic arts presentations.

Graphic Artist

Bachelor's degree and 4 years experience in the production of graphic designs, production graphics, and presentations. Prepares graphics illustrations for various publications. Completes assignments from start to finish for specific projects.

Technical Editor

Bachelor's degree and 10 years experience in producing and editing technical documents. Produces and edits technical documents to prepare for presentation or publication. Consults with writers and experts to assure clear, correct, technical results.

Technical Writer

Bachelor's degree and 4 years experience in producing technical documents.

Produces and organizes technical documents for publication or presentation

Consultants/Experts

Executive Consultant III

An executive specialist in a particular field that is recognized as an expert in his specialty field by his peers.

Executive Consultant II

An executive specialist in a particular field that is recognized as an expert in his specialty field by his peers.

Executive Consultant I

An executive specialist in a particular field that is recognized as an expert in his specialty field by his peers.

Sr. Consultant III

A specialist in a particular field that is recognized as an expert in his specialty field by his peers.

Sr. Consultant II

A specialist in a particular field that is recognized as an expert in his specialty field by his peers.

Sr. Consultant I

A specialist in a particular field that is recognized as an expert in his specialty field by his peers.

Consultant III

A specialist in a particular field used to solve a specific environmental problem

Consultant II

A specialist in a particular field used to solve a specific environmental problem

Consultant I

A specialist in a particular field used to solve a specific environmental problem

Education / Experience substitution policy is:

Degree	Degree and Experience Substitution	Experience Substitution
Associates	2 years	2 years
Bachelor's	Associates + 2 years	4 years
Master's	Bachelor's + 2 years	6 years
Doctorate	Master's + 4 years	10 years

NOTE: ALL NON-PROFESSIONAL LABOR CATEGORIES MUST BE INCIDENTAL TO AND USED SOLELY TO SUPPORT PROFESSIONAL SERVICES AND CANNOT BE PURCHASED SEPARATELY.

5. AMTEC PRICE LIST

Labor Category	Year 2	Year 3	Year 4	Year 5
	1-Jan-04 3-Oct-04	4-Oct-04 3-Oct-05	4-Oct-05 3-Oct-06	4-Oct-06 3-Oct-07
Sr Program Manager	\$ 134.25	\$ 138.95	\$ 143.82	\$ 148.85
Project Director	\$ 121.90	\$ 126.16	\$ 130.58	\$ 135.15
Program Manager	\$ 108.52	\$ 112.32	\$ 116.25	\$ 120.32
Project Leader	\$ 94.60	\$ 97.91	\$ 101.34	\$ 104.89
Principal Investigator	\$ 84.30	\$ 87.25	\$ 90.30	\$ 93.46
Principal Environmental Scientist / Engineer	\$ 109.14	\$ 112.96	\$ 116.91	\$ 121.00
Sr Environmental Scientist / Engineer	\$ 100.64	\$ 104.16	\$ 107.81	\$ 111.58
Environmental Scientist / Engineer	\$ 72.26	\$ 74.79	\$ 77.41	\$ 80.11
Associate Environmental Scientist / Engineer	\$ 51.39	\$ 53.19	\$ 55.05	\$ 56.98
Regulatory Specialist	\$ 72.26	\$ 74.79	\$ 77.41	\$ 80.11
Sr Air Quality Specialist	\$ 96.71	\$ 100.09	\$ 103.59	\$ 107.22
Air Quality Specialist	\$ 75.84	\$ 78.50	\$ 81.24	\$ 84.09
Land Use Specialist	\$ 53.92	\$ 55.80	\$ 57.75	\$ 59.77
Economic Analyst	\$ 56.45	\$ 58.43	\$ 60.47	\$ 62.59
Environmental Technician VI	\$ 86.74	\$ 89.78	\$ 92.92	\$ 96.17
Environmental Technician V	\$ 72.20	\$ 74.72	\$ 77.34	\$ 80.05
Environmental Technician IV	\$ 61.72	\$ 63.88	\$ 66.11	\$ 68.43
Environmental Technician III	\$ 44.97	\$ 46.55	\$ 48.18	\$ 49.86
Environmental Technician II	\$ 37.57	\$ 38.88	\$ 40.25	\$ 41.65
Environmental Technician I	\$ 30.41	\$ 31.48	\$ 32.58	\$ 33.72
Principal Specialist Scientist	\$ 96.71	\$ 100.09	\$ 103.59	\$ 107.22
Sr Specialist Scientist	\$ 78.30	\$ 81.05	\$ 83.89	\$ 86.82
Specialist Scientist	\$ 51.25	\$ 53.04	\$ 54.90	\$ 56.82
Associate Specialist Scientist	\$ 36.09	\$ 37.36	\$ 38.66	\$ 40.02
Historian	\$ 51.25	\$ 53.04	\$ 54.90	\$ 56.82
Archaeological Technician III	\$ 51.13	\$ 52.93	\$ 54.78	\$ 56.70
Archaeological Technician II	\$ 41.43	\$ 42.88	\$ 44.38	\$ 45.94
Archaeological Technician I	\$ 37.12	\$ 38.41	\$ 39.76	\$ 41.15
Principal GIS Specialist	\$ 94.37	\$ 97.68	\$ 101.10	\$ 104.63
Sr GIS Specialist	\$ 73.00	\$ 75.56	\$ 78.20	\$ 80.94
GIS Specialist	\$ 50.10	\$ 51.86	\$ 53.67	\$ 55.55
Sr Computer Scientist	\$ 94.37	\$ 97.68	\$ 101.10	\$ 104.63
Computer Scientist	\$ 73.00	\$ 75.56	\$ 78.20	\$ 80.94
Computer Analyst	\$ 59.64	\$ 61.73	\$ 63.89	\$ 66.13
Programmer II	\$ 52.76	\$ 54.60	\$ 56.51	\$ 58.49
Programmer	\$ 43.91	\$ 45.45	\$ 47.04	\$ 48.68
Training Manager	\$ 69.74	\$ 72.18	\$ 74.71	\$ 77.32
Principal Instructor	\$ 62.74	\$ 64.94	\$ 67.21	\$ 69.56
Instructor	\$ 45.34	\$ 46.92	\$ 48.56	\$ 50.26
Sr Administrator	\$ 42.40	\$ 43.89	\$ 45.42	\$ 47.01
Administrator	\$ 31.68	\$ 32.79	\$ 33.94	\$ 35.13
Clerical	\$ 21.19	\$ 21.93	\$ 22.69	\$ 23.49
Multimedia Specialist	\$ 67.05	\$ 69.40	\$ 71.83	\$ 74.35
Graphic Artist	\$ 63.92	\$ 66.15	\$ 68.47	\$ 70.87
Technical Editor	\$ 63.34	\$ 65.56	\$ 67.85	\$ 70.22
Technical Writer	\$ 46.49	\$ 48.12	\$ 49.80	\$ 51.54
Executive Consultant III	\$ 245.42	\$ 254.01	\$ 262.90	\$ 272.10
Executive Consultant II	\$ 214.74	\$ 222.26	\$ 230.04	\$ 238.09
Executive Consultant I	\$ 184.06	\$ 190.50	\$ 197.17	\$ 204.07
Sr Consultant III	\$ 153.39	\$ 158.76	\$ 164.31	\$ 170.06
Sr Consultant II	\$ 128.85	\$ 133.36	\$ 138.02	\$ 142.85
Sr Consultant I	\$ 110.43	\$ 114.30	\$ 118.30	\$ 122.44
Consultant III	\$ 92.03	\$ 95.25	\$ 98.58	\$ 102.04
Consultant II	\$ 73.63	\$ 76.20	\$ 78.87	\$ 81.63
Consultant I	\$ 61.36	\$ 63.50	\$ 65.73	\$ 68.03

NOTE: ALL NON-PROFESSIONAL LABOR CATEGORIES MUST BE INCIDENTAL TO AND USED SOLELY TO SUPPORT PROFESSIONAL SERVICES AND CANNOT BE PURCHASED SEPARATELY.