
AGREEMENT IN PRINCIPLE

THE STATE OF TEXAS
GRANT NO. DE-FG04-90AL65780



QUARTERLY REPORT

4TH QUARTER

FISCAL YEAR 2002

JULY 1, 2002 – SEPTEMBER 30, 2002



COMPTROLLER OF PUBLIC ACCOUNTS

P.O. BOX 13528
AUSTIN, TX 78711-3528

AGREEMENT IN PRINCIPLE

U.S. DEPARTMENT OF ENERGY
AND
THE STATE OF TEXAS
Comptroller of Public Accounts

QUARTERLY REPORT

4th Quarter Fiscal Year 2002
July through September

The State Energy Conservation Office (SECO) has compiled this report for the fourth quarter of Fiscal Year 2002. SECO's work included coordinating the Agreement in Principle activities, participating in appropriate meetings and reviewing vouchers to ensure that expenditures of the program's funds comply with the appropriate federal and state regulations.

The following page contains the actual expenses for each agency and local government that we have to date. Please note that some participants have estimated their expenses through the end of the quarter and thus their figures, listed as projections, may differ from the actual expenses found on the next page.

Next up are the individual reports, detailing the work performed under the various tasks.

If there are any questions, please write or call Roger Mulder at 512/463-1866 or send an e-mail to Roger.Mulder@cpa.state.tx.us.

**AGREEMENT IN PRINCIPLE
BUDGETS AND EXPENDITURES
for the period**

October 1, 2001 through September 30, 2002

AGENCY	FFY02 BUDGET	ACTUAL & PROJECTED EXPENDITURES		FFY02 BALANCE
		Defense Programs	Environmental Management	
State Energy Conservation Office	\$ 151,631.79	\$111,680.25 a	\$34,513.68 a	\$ 5,437.86
Texas Natural Resource Conservation Commission	\$ 487,000.00		\$338,462.86 a \$106,689.56 p	\$ 41,847.58
Texas Department of Health	\$ 347,665.00	\$238,191.40 a \$79,023.60 p	\$22,950.00 p	\$ 7,500.00
Texas Department of Public Safety	\$ 155,465.00	\$134,322.69 a		\$ 21,142.31
City of Amarillo	\$ 97,492.00	\$64,573.08 a \$32,918.92 p		\$ -
Armstrong County	\$ 13,860.00	\$14,569.95 a		\$ (709.95)
Carson County	\$ 44,420.00	\$10,371.10 a \$34,048.90 p		\$ -
Bureau of Economic Geology	\$ 107,700.00	\$69,052.20 a \$23,647.80 p	\$15,000.00 a	\$ 0.00
Office of the Attorney General	\$ 15,000.00	\$15,000.00 a		\$ -
TOTAL	\$1,420,233.79	\$ 827,399.89	\$ 517,616.10	\$ 75,217.80
BUDGET BY DOE PROGRAM*		\$ 860,770.11	\$ 559,463.68	
FUNDS AVAILABLE BY DOE PROGRAM		\$ 33,370.22	\$ 41,847.58	

a = actual expenditures reimbursed to date p = grant recipient's projected expenditures through 6/30/02

** NOTE: The Defense Programs budget includes \$725,000 in new funding and \$135,770.11 in carryover for a total of \$860,770.11. The Environmental Management budget includes \$463,245.57 in new funding and \$96,218.11 in carryover for a total of \$559,463.68.*

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CITY OF AMARILLO

ARMSTRONG COUNTY

CARSON COUNTY

**THE UNIVERSITY OF
TEXAS AT AUSTIN**

**OFFICE OF THE
ATTORNEY GENERAL**

**TEXAS NATURAL RESOURCE
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**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT**

***4TH QUARTER
FISCAL YEAR 2002
JULY 2002 – SEPTEMBER 2002***

Agreement-in-Principle Quarterly Report

Texas Commission On Environmental Quality (TCEQ)

July - September 2002

Scope of Work/Objectives:

1. Remediation Division - The Remediation Division of the Office of Permitting, Remediation and Registration is required to implement an oversight Environmental Restoration Program at the Pantex Nuclear Weapons facility in Amarillo, Texas and provide environmental restoration oversight to comply with the RCRA Permit and rules. Tasks to be accomplished as per the Agreement-In-Principle (AIP) are:
 - Provide expedited administrative oversight to the Department of Energy (DOE)-Pantex for environmental restoration projects;
 - Review, evaluate, and comment on DOE-Pantex's corrective action work plans/reports and data compilations related to the Environmental Restoration Program;
 - Participate in DOE, Texas Commission On Environmental Quality (TCEQ) or Agreement-In-Principle (AIP) sponsored meetings to discuss state oversight activities at DOE-Pantex. Provide appropriate information in public meetings to inform and/or educate the citizens regarding the RCRA Permitting documents, restoration activities and procedures; and,
 - Participate in TCEQ/DOE environmental restoration review conferences, public meetings and hearings, and other technical meetings and conferences, as necessary, to fulfill ongoing project objectives.

2. Field Operations Division - The Field Operations Division of the Office of Compliance and Enforcement is required to implement an environmental compliance program at the Pantex Nuclear Weapons facility in Amarillo, Texas and provide for independent evaluation of environmental monitoring data. Tasks to be accomplished as per the AIP are:
 - Sample domestic wells or public drinking water systems, as necessary, in the vicinity of Pantex. For any systems that are determined to be potentially affected by plant operations, the State, in cooperation with DOE, will develop a program for frequency of sampling and analysis;
 - Review quarterly compilations of environmental data for differences with Pantex data from same well / area;
 - Coordinate and participate in public meetings to discuss state oversight, provide updated groundwater monitoring reports, and respond to public concerns about Pantex;

- Co-monitor Pantex's groundwater for volatile organic compounds, semi-volatile organic compounds, heavy metals, high explosives, and general water chemistry analytes, as necessary;
 - Perform an independent comparison of environmental monitoring data collected by the Department of Energy (DOE); and,
 - Co-monitor Pantex's ambient air for volatile organic compounds, total non-methane, and particulate matter (PM10).
3. Monitoring Operations Division - The Monitoring Operations Division of the Office of Compliance and Enforcement is required to implement an environmental monitoring program at the Pantex Nuclear Weapons facility in Amarillo, Texas. The objective is to operate an ambient air monitoring program at Pantex to measure air emissions from Pantex activities. The program includes an air monitoring network in the vicinity of Pantex; an operation and maintenance program for the monitoring equipment; a program to analyze the air monitoring data; and an independent evaluation of the environmental monitoring and emissions data collected by the Pantex facility. Tasks to be accomplished in accordance with the AIP are:
- Chemical contaminant inventory and assessment for constituents released to the air;
 - Ambient air monitoring for non- radiological pollutants; and,
 - Independent evaluation of environmental monitoring data submitted by the Department of Energy (DOE).
4. Toxicology and Risk Assessment Section - The Toxicology and Risk Assessment (TARA) Section of the Office of Permitting, Remediation and Registration is responsible for reviewing the results of all environmental monitoring and air dispersion modeling, and determine the impacts of the exposure to environmental contaminants emitted from the DOE Pantex Facility. Tasks to be accomplished as per the Agreement-In-Principle (AIP) are:
- Perform a toxicological evaluation of the monitoring data from the DOE-Pantex facility, which is collected and reported on a routine basis in accordance with the RCRA Permit;
 - Participate in DOE, TCEQ or AIP sponsored public meetings to discuss environmental risk at DOE-Pantex for constituents of potential concern;
 - Provide toxicological information to the public regarding DOE-Pantex related activities;
 - Review and interpret the potential public health implications of additional information or results of additional environmental sampling at the DOE-Pantex facility;
 - Assist in the establishment of health-based or ecologically based protective levels for use in evaluating site data;

- Review and comment on submitted human-health and ecological baseline risk assessments and supporting documentation in coordination with the Remediation Division;
 - Provide chemical and physical data for chemicals of concern at the site;
 - Participate in technical meetings, as necessary, to complete ongoing project objectives;
 - Provide modeling support to the Pantex project; and,
 - Provide statistical support to the Pantex project.
5. Legal Division - The Legal Division provides support to the TCEQ to ensure that all hazardous, radiological and mixed wastes identified on-site are managed in accordance with all state and federal solid waste regulations including the RCRA permit requirements. Tasks to be accomplished in accordance with the AIP are:
- Review Memoranda of Agreement between the TCEQ, the Environmental Protection Agency, and/or the Department of Energy; and,
 - Participate in public outreach meetings to assist in answering legal and procedural questions.

Accomplishments, Program Changes and Significant Issues:

1. Remediation Division

- Attended one public meeting (i.e., Round Table Discussions) regarding the environmental restoration activities at DOE-Pantex during the reporting period;
- Participated in quarterly Agreement-In-Principle quarterly meetings during the reporting period. Presented to AIP staff, a presentation on the interim stabilization program established by the Compliance Plan;
- Participated in the following technical meetings to accelerate the project: a discussion of the ecological risk issues on September 9th, 2002; a discussion on September 10th, 2002 on the Risk Reduction Rule Guidance Document; a discussion on September 11th, 2002 regarding the Base-Line Risk Assessment (Human Health Issues). These discussions included numerous TCEQ staff.
- Worked with a TCEQ Contractor (Texas A&M University) funded by the AIP to identify problem issues associated with closure of units and expedite the resolution of these issues through the visualization and discussion with DOE;
- Attended and participated in two “Pantex Core Team” meetings held during the reporting period (a total of 4 working days during the quarter). The Core Team meetings support the Pantex project by expediting the RFI process; and,
- Participated in teleconferences held periodically to discuss the status of the Environmental Restoration Projects.

2. Field Operations Division

- Conducted scheduled quarterly groundwater sampling of specified groundwater investigation/monitoring wells during July 18 through August 26, 2002;
- Conducted domestic well sampling as requested by adjacent landowner to Pantex on July 9, 2002;
- Conducted four ambient air sampling events this reporting period;
- Continued to monitor for total non-methane/methane at CAMS 79 (Site 7);
- Coordinated with the following laboratories for groundwater samples collected during the reporting period: Severn Trent Laboratory in Chicago for analysis of high explosives; the TCEQ Laboratory in Houston for analysis of metals, volatile organic compounds, semi-volatile organic compounds; and the Texas Department of Health for analysis of perchlorate;
- Attended quarterly Agreement-In-Principle meetings held during the reporting period;

- Co-hosted, with the DOE, two public meetings at the Square House Museum in Panhandle; and,
- Attended one Core Team meeting and participated as technical support to the Corrective Action Section of the TCEQ.

3. Monitoring Operations Division

- Four sets of PM10 and four sets of volatile organic compound samples were collected and analyzed from the two TCEQ monitoring sites at Pantex during this quarter;
- Total non-methane organic compound(TNMOC) data were collected at Site #7 using Model 55 TNMOC monitor. However, until we are able to establish a triggering mechanism to take canister samples when the TNMOC concentration reaches a specified level, the significance of the TNMOC levels cannot be evaluated. The equipment has been ordered and we hope to establish this triggering mechanism in the near future;
- Most of the volatile organic compounds were detected below quantitation limits and the PM10 concentrations were below the National Ambient Air Quality Standard. The highest PM10 concentration of 31 micrograms per cubic meter was recorded at Sites #4 and #5 on August 7, 2002, as compared to the National Ambient Air Quality Standard of 150 micrograms per cubic meter. The total non-methane organic compound data and the meteorological data are available real time on the TCEQ web page, <http://www.TNRCC.state.t.x.us/cgi-bin/mononsp/dailysummary>;
- No environmental assessment, environmental impact statements, or other document were reviewed for potential air quality impacts; and
- Attended one (1) quarterly Agreement-In-Principle meeting held during the reporting period.

4. Toxicology and Risk Assessment (TARA) Section

A. *TARA Human Health Risk Assessors*

- Performed a health-effects review of groundwater monitoring data collected by DOE and TCEQ from the DOE-Pantex facility from a toxicological perspective (July through September 2001) and prepared an interoffice memorandum of this review;
- Performed a health-effects review of air-monitoring data from the DOE-Pantex facility from a toxicological perspective (2001 annual report) and prepared an interoffice health-effects memorandum of this review;
- Participated in one Agreement-in-Principle (AIP) meeting during the reporting period;

- Attended and participated in two (2) “Pantex Core Team” meetings held during the reporting period. The Core Team meetings support the Pantex project by expediting the RFI process and;
- Participated in two visualization meetings (one on the Risk Reduction Rule Guidance Document and one on the Human Health Work Plan). These two documents have been in the works for well over three years, and the visualization meetings were part of a DOE effort to finally provide an adequate response to major TCEQ concerns.

B. *Other TARA Staff*

- Provided technical support for the Pantex project and contributed to document review as necessary.

5. Legal Division

- Provided legal assistance as needed to TCEQ staff regarding AIP activities; and
- Attended one Accelerated Approach technical meeting between DOE and TCEQ.

Quarterly Expenditures for each Program For Reporting Period

1. Remediation Division

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for the Remediation Division activities is \$184,651. Scheduled budgeted expenditures for the quarter (1/4 of the budgeted amount) are \$46,163. Total estimated expenditures for this quarter (July through September are projected) are approximately 17,000 routine expenses and 38,713 contractor expenses. Total expenditures for the reporting period is approximately \$55,713.

2. Field Operations Division

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for the Field Operations Division activities is \$132,177. Scheduled budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$44,044. Total estimated expenditures for this quarter (July through September are projected) are approximately \$24,000.

3. Monitoring Operations Division

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for air monitoring activities is \$110,987. However, \$27,746 budgeted for the purchase of the VOC samplers was never put into Monitoring Operations Division Operating budget. So, the actual budget is \$83,000. Total estimated expenditures for this quarter (July through September are projected) are \$19,879 for routine expenses and \$27,746 for VOC samplers. Total expenditures for the reporting period is approximately \$47,625.

4. Toxicology and Risk Assessment (TARA) Section

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for toxicological activities is \$57,185. Budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$14,296. Total estimated expenditures for this quarter (July through September are projected) are \$19,879.

5. Legal Division

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for the Legal Division activities is \$2,000. Scheduled budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$500. Total estimated expenditures for this quarter (July through September are projected) are approximately \$100.

Milestones and Other Key Events:

1. Remediation Division

- Coordinated as a member of the Pantex Core Team to develop a conceptual site model for the Burning Grounds Waste Management Area and the Southeast (draft final version);
- Coordinated as a member of the Pantex Core Team to develop a conceptual site model for the Zone 11 and 12 areas (draft versions);
- Coordinated as a member of the Pantex Core Team to develop a Burning Ground Closure Strategy (final draft version);
- Conducted a presentation at the AIP meeting. Presented the Core Team concept to the members;
- Continued work on the primary decision-making documents in several technical meetings with DOE; and,
- Participated in the proposed DOE “Accelerated Approach” to evaluate the current process and find a path-forward to expedite cleanup of Pantex from 2013 to 2008. Resulted in a Letter of Intent signed by the TCEQ’s Executive Director.

2. Field Operations Division

- Coordinated quarterly groundwater sampling;
- Co-hosted the monthly Roundtable Public Meetings with Pantex; and,
- Implemented the air monitoring program funded by the AIP; and,
- Sampled domestic wells for adjacent neighbor.

3. Monitoring Operations Division

- Analyzed air samples for volatile organic compounds (VOCs) and particulate matter; and.
- Prepared and distributed the 2001 annual ambient air monitoring report.

4. Toxicology and Risk Assessment Section

- Participated in finalizing the Zone 11 and 12 closure strategy with the Core Team and in planning a path forward for future Core Team/Focus Group activities;
- Completed the most recent air and groundwater monitoring health-effects reviews;
- Overhauled the groundwater monitoring review process including the creation of a program that assists in screening the DOE-Pantex data and compares measured values to health-based comparison values; and,

- Worked with the TCEQ Regional Office in Amarillo to clarify the roles of different TCEQ groups within the Agency (Regional Office, Houston Lab, CAS, TARA) in regards to groundwater sampling, analysis, reporting, and review.

5. Legal Division

- Reviewed contracts, regulations, and documents and provided legal recommendations, as necessary.

Information in quarterly report provided by TCEQ AIP Divisions/Sections.

Robert Musick,

TCEQ Pantex Project Coordinator

Date of Compilation

**TEXAS DEPARTMENT OF HEALTH
BUREAU OF RADIATION CONTROL**

**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT**

***4TH QUARTER
FISCAL YEAR 2002
JULY 2002 – SEPTEMBER 2002***

TEXAS DEPARTMENT OF HEALTH

**Bureau of Radiation Control
and
Bureau of Laboratories**

PANTEX AIP IMPLEMENTATION REPORT

July 2002 thru September 2002

SUMMARY

Scope of Work/Objectives

To assure that past and present activities at the Pantex Plant pose minimal health, safety, and environmental impacts to the citizens of Texas. This will be accomplished by:

- 1) assuring that public health, safety, and the environment are protected with existing programs,
- 2) assuring DOE's compliance with applicable laws, regulations and standards,
- 3) ensuring substantive commitments are made by DOE to achieve compliance,
- 4) ensuring that DOE establishes prioritization of cleanup and compliance activities,
- 5) establishing a vigorous program of independent monitoring and oversight by the State of Texas,
- 6) cooperatively developing and implementing an effective and coordinated emergency preparedness program, and
- 7) participating in the NEPA process on issues concerning Pantex and the effective public outreach program relating to the implementation of the Agreement-in-Principle.

CONTAMINANT INVENTORY AND ASSESSMENT

Scope of Work/Objectives

- * Review the inventory of radiological and mixed waste identified on-site.

Accomplishments

- * Completed review of the Fourth Quarter 2001 and First Quarter 2002 Radiological and Mixed-Waste Inventory Reports.
- * *FY 02 Expenses this Quarter: Not available at time of report.*

ENVIRONMENTAL MONITORING

Scope of Work/Objectives

- * Collect and analyze soil, water, crops, vegetation and milk from the plant vicinity for selected radio nuclides. Within 24 hours of analytical results receipt, report those results which exceed regulatory limits.
- * Monitor the site boundary with thermoluminescent dosimeters to determine ambient gamma radiation levels.
- * Perform radiological analysis of air samples.
- * Review groundwater monitoring, air monitoring and radio-activity surveillance system plans and updates and provide comments as appropriate.
- * Prepare environmental monitoring and analysis plan updates regarding radiological materials and provide to DOE for review and comment.
- * Allow DOE to take split samples in routine environmental monitoring activities.

Accomplishments

- * Completed radionuclide analysis of three drinking water, one playa sediment and five soil samples.
- * Exchanged thermoluminescent dosimeters on pre-arranged schedule. Provided documentation of results for the Second Quarter 2002 monitoring period.
- * Completed review of Environmental Data Compilations for the First and Second Quarters of 2002.
- * Completed review of the 2002 Groundwater Protection Management Program Plan for Pantex Plant.

Significant Issue/Change from Intended Activity:

Fy 02 Expenses this Quarter: Not available at time of report.

EMERGENCY PREPAREDNESS

Scope of Work/Objectives

- * Maintain controlled updated copies of Pantex Plan and Procedures related to a radiological material incident. Provide input to updates on prearranged schedule.
- * Participate in joint periodic response exercises and drills with the Pantex plant.
- * Coordinate exercise activities with Pantex officials.
- * Assist in updating local government plans and procedures.
- * Review and provide comments regarding local radiological emergency plans.
- * Assist local authorities with respect to a Pantex plant incident potentially affecting off-site population.

Accomplishments

- * Provided review comments on six Pantex Plant Emergency Preparedness Plan Procedures, according to the prearranged schedule.
- * Conducted operational field testing of Base Station Radio at the BRC Staging Facility in Amarillo, and recently purchased mobile radios for field team use in the Pantex Plant Ten-mile Emergency Planning Zone.
- * Completed training for BRC Field Teams in specialized equipment required for a Pantex Emergency Response. Performed a Field Exercise following the training to familiarize team members with the Pantex vicinity. Access to pre-selected monitoring points on the roads forming the perimeter to the Plant was restricted due to heightened security concerns.

- * Participated in Agreement-in-Principle Task III Planning meeting in Amarillo.
- * Performed routine calibration on pre-positioned equipment and half-body radiation monitors located at the BRC Staging Facility in Amarillo.
- * Purchased and received laptop computers for BRC Field Team use.
- * Purchased and received desktop computer for BRC Accident Assessment Team use.

FY 02 Expenses this Quarter: Not available at time of report.

NEPA IMPLEMENTATION

Scope of Work/Objectives

- * Participate in Department of Energy activities relating to environmental restoration activities at Pantex Plant.

Accomplishments

- * Participated in Pantex Environmental Remediation Core Team meeting activities.
- * Participated in a DOE Public Scoping Meeting relating to proposed relocation of the Modern Pit Production Facility to the Pantex Plant.

FY 02 Expenses this Quarter: Not available at time of report.

TEXAS DEPARTMENT OF HEALTH ESTIMATED FY 2002 BUDGET: \$290,500

***Approximate Expenses April thru June 2002:
Not available.***

Texas Department of Public Safety
Division of Emergency Management

Pantex Program
Quarterly Report

Fourth Quarter
Fiscal Year 2002

**TEXAS DEPARTMENT OF PUBLIC SAFETY
DIVISION OF EMERGENCY MANAGEMENT**

Fourth Quarter
Fiscal Year 2002

I. *Scope of Work/Objectives:*

Texas Department of Public Safety (DPS) participation in the Agreement-in-Principle is concentrated on AIP Task III, Emergency Management, and includes the following objectives:

- A. Review and comment on updated hazard assessments conducted by the Pantex Plant and proposed protective action recommendations.
- B. Update state plans, annexes, and procedures pertaining to radiological or hazardous materials incident at the Pantex Plant.
- C. Review and comment, as appropriate, on Pantex emergency plans and procedures pertaining to radiological or hazardous materials incidents. Maintain current copies of such plans and procedures.
- D. Design, schedule, conduct, and evaluate in periodic joint emergency response exercises and drills. Participate in such exercises and drills.
- E. Meet periodically with the Department of Energy (DOE) and Pantex Plant emergency management staff to review/resolve emergency management issues and coordinate emergency management activities.
- F. Review current information to assess the effect of the maximum credible accident.
- G. Participate in periodic notification exercises and communications drills.
- H. In the event of an incident at Pantex potentially affecting the off-site population, assist local authorities with their emergency response in the manner outlined in state and local emergency management plans.
- I. In coordination with DOE, coordinate radiological training for state and local response organizations.
- J. Assist local governments in updating emergency plans and procedures and provide integration of such plans and procedures.
- K. Review and provide comments on local government emergency plans developed to prepare for a radiological or hazardous material incident at the Pantex Plant.

- L. Assist local governments in developing emergency public information materials and programs.
- M. Provide guidance relating to radiological aspects of public information materials and programs.
- N. Develop procedures for and maintain the Reception Center located at the Tri-State Fairgrounds.

II. Task III Accomplishments:

- A. Action Item: Review and comment on updated hazard assessments conducted by the Pantex Plant and proposed protective action recommendations.

No activity this quarter.

- B. Action Item: Update state and local plans, annexes, and procedures pertaining to radiological or hazardous materials incident at the Pantex Plant.

- 1. DEM continued work on an update to the *State Emergency Operations Center (EOC) Standard Operating Procedures (SOP)*. An interim draft of the SOP was prepared during the quarter and used during emergency response activities for major disasters in July and September. The after action review for those disasters revealed the need for further changes to portions of the draft SOP; the DEM Response Section hopes to complete those during the first half of FY 03.

- 2. DEM updated the Pantex Area Emergency Communications Directory during the quarter and distributed revised copies to state and local program participants.

- C. Action Item: Review and comment, as appropriate, on copies of Pantex emergency plans and procedures pertaining to radiological or hazardous materials incidents. Maintain current copies of such plans and procedures.

- 1. DEM maintained controlled copies of Pantex emergency plans and procedures for use in the State Emergency Operations Center (EOC).

- 2. DEM reviewed several Pantex Plant Emergency Preparedness Procedures during the fourth quarter. DEM had previously provided comments on these same documents to DOE.

- D. Action Items: Design, schedule, conduct, and evaluate in periodic joint emergency response exercises and drills. Participate in such exercises and drills.

- 1. During the early August, DEM personnel participated in final exercise planning with DOE, the Pantex Plant staff, and local governments for joint emergency exercise EMEX 02-1.

2. The State EOC was partially activated for and participated in joint exercise EMEX 02-1 on August 22, 2002.
 3. The Disaster District 5-B EOC was also activated for and participated in EMEX 02-1.
 3. The DEM Pantex Planner collected and consolidated off-site post exercise critique items for EMEX 02-1 and forwarded them to the Pantex exercise staff.
- E. Action Item: Meet periodically with the DOE and Pantex Plant emergency management staff to review/resolve emergency management issues and coordinate emergency management activities.
1. DEM personnel participated in the Agreement in Principle quarterly progress review on July 23 in Amarillo.
 2. DEM personnel participated in a local Agreement in Principle emergency management meeting in Amarillo on September 19.
 3. DEM's Pantex Planner participated in other local meetings with DOE, the Pantex Plant staff, and local governments to review and resolve emergency management issues.
- F. Action Item: Review current information to assess the effect of the maximum credible accident.
- No state actions were required during the quarter.
- G. Action Item: Participate in periodic notification exercises and communications drills.
1. The State EOC participated in periodic alert/notification drills and communications tests with the Pantex Plant and the state's two nuclear power plants.
 2. DPS Disaster District 5B in Amarillo participated in periodic alert/notification drills and communications tests with the Pantex Plant.
- H. Action Item: In the event of an incident at Pantex potentially affecting the off-site population, assist local authorities with their emergency response in the manner outlined in state and local emergency management plans.
- No state action was required during the quarter.
- I. Action Item: In coordination with DOE, coordinate Pantex-related training for potentially affected state and local response organizations.

Pursuant to a cooperative agreement, DEM has granted funding to the Texas Department of Health to conduct basic radiological preparedness training courses that are available to employees of local governments and state agencies, including those in the vicinity of the Pantex Plant.

J. Action Item: Assist local governments in updating emergency plans and procedures and provide multi-jurisdictional integration of such plans.

1. DEM personnel were involved in 49 contacts with local governments, state agencies, and volunteer organizations active in disasters to develop emergency plans, procedures, and other materials for a Pantex emergency.
2. DEM personnel were involved in 9 contacts with DOE and the Pantex Plant staff, industry, and other organizations and groups regarding Pantex-related emergency management programs.
3. DEM's Pantex Planner assisted Armstrong County and Carson County in updating annexes to their *Emergency Management Plan*.
4. DEM's Pantex Planner assisted Carson Co in developing standard operating procedures for communications, warning, and alert.

J. Action Item: Review and provide comments on local government emergency plans developed to prepare for a radiological or hazardous material incident at the Pantex Plant.

1. The DEM Regional Liaison Officer (RLO) for Region 5 reviews emergency management plans and related annexes developed by local governments for compliance with state standards and criteria (which incorporate Federal emergency planning criteria) and provides feedback to local governments.
2. The DEM Plans Unit staff receives and reviews emergency management plans and plan annexes developed by local governments and maintains a comprehensive database on the status of emergency planning in each jurisdiction in the state.

DEM received and reviewed updated versions of the following Carson County planning materials during the quarter:

- a. Basic Emergency Management Plan
- b. Annex A, Warning
- c. Annex B, Communications
- d. Annex C, Shelter & Mass Care
- e. Annex D, Radiological Protection
- f. Annex F, Firefighting
- g. Annex G, Law Enforcement
- h. Annex L, Energy & Utilities
- i. Annex N, Direction & Control

- j. Annex Q, Hazardous Materials & Oil Spill Response
- k. Annex S, Transportation
- l. Annex V, Terrorist Incident Response

K. Action Item: Assist local governments in developing emergency public information material and programs.

1. DEM has contracted with Southwestern Bell Yellow Pages for publication of a Pantex area emergency preparedness advertisement for the inside front cover of the 2003 Amarillo area telephone directory. Telephone books with the emergency preparedness advertisement will be distributed during March 2003.
2. DEM staff prepared a working draft of the 2003 Pantex Area Emergency Preparedness Calendar and the Department of Public Safety Graphic Arts Section completed required pre-production work on the calendar during the quarter.
3. DEM executed an Interagency Cooperation Contract with the University of Texas Printing Department for production of the 2003 and that task is underway. We expect to have the completed calendar in hand and ready for distribution by early December.

L. Action Item: Provide guidance relating to radiological aspects of public information materials and programs.

No activity this quarter.

M. Action Item: Develop procedures for and maintain the Reception Center located at the Tri-State Fairgrounds.

No activity this quarter.

N. Other:

1. DEM's Pantex Planner completed the FEMA Independent Study course in Emergency Preparedness.
2. DEM's Pantex Planner participated in two meetings of the Carson County Local Emergency Planning Committee.
3. DEM's Pantex Planner participated in a biological warfare workshop in Amarillo in August.
4. DEM's Pantex Planner deployed to Austin and received an orientation to State EOC response operations during the activation of that facility for Hurricane Isadore.

II. *Significant Changes from Intended Activities:*

None

III. *Significant Issues:*

None

IV. *Projected Expenses:*

FY 02 Budget	\$ 174,065.00
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As revised by Amendment 2	\$ 155,465.00
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V. *Estimated FY 02 Expenses to Date:*

Expenditures	\$134,129.46
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Encumbrances	\$ 2,091.00
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For 2 replacement computers ordered in September that have been delivered, but not yet billed.

**AMARILLO/POTTER/RANDALL
DEPARTMENT OF EMERGENCY
MANAGEMENT**

CITY OF AMARILLO/POTTER COUNTY

**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT
4th QUARTER, FISCAL YEAR 2002**

Activity Summary

Inspected, repaired and maintained equipment in accordance with agreements. Conducted daily, weekly and monthly warning system tests and maintenance. Attended AIP related meetings and training programs. Participated in Pantex emergency notification coordination, testing and drills. Participated in the EMEX-02 meetings, training, and exercise. Began a remodel of the BRC Staging Area. Upgraded the outdoor siren in Armstrong County.

**Amarillo/Potter/Randall Department of Emergency Management
AIP Quarterly Report
4th Quarter, Fiscal Year 2002**

I. Scope of Work/Objectives:

- A. Repair, maintain, upkeep, conduct preventive maintenance, and test all equipment provided by DOE, purchased under AIP, or provided by the City of Amarillo used for Pantex operations. This includes: all EPZ indoor warning monitors in Potter County; Warning equipment installed in the EOC; Command and Control equipment (to include computer equipment) installed in the EOC, response vehicles, reception center, and BRC staging area; various pieces of radio communications equipment; and radiological (not maintained by BRC) and decontamination equipment under the control of Amarillo or Potter County.
- B. As agreed upon, continue to repair, maintain, upkeep, conduct preventive maintenance, and test all outdoor warning sirens in the EPZ to include activation devices in each local EOC or Sheriff's Office.
- C. Review and provide comments on updated hazard assessments conducted by the Pantex plant, as appropriate. Proposed protective action recommendations will be reviewed and comments provided to DOE.
- D. Review and comment, as appropriate, on Pantex emergency plans and procedures related to radiological or hazardous materials incidents, maintain current copies of such plans and procedures.
- E. In coordination with Pantex officials, design, schedule, conduct and evaluate periodic joint emergency exercises and drills. Participate in such exercises and drills to the extent possible.
- F. Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
- G. Review current information to assess the effect of the maximum credible accident.
- H. Participate in periodic notification exercises and communications drills.
- I. Develop public information materials and programs.
- J. Develop procedures and maintain the Reception Center located at the Tri-State Fair Grounds.

II. Accomplishments

A. Action Item: Repair, maintain, upkeep, conduct preventive maintenance, and test all equipment provided by DOE, purchased under AIP, or provided by the City of Amarillo used for Pantex operations. This includes: all EPZ indoor warning monitors in Potter County. Warning equipment installed in the EOC; Command and Control equipment (to include computer equipment) installed in the EOC, response vehicles, reception center, and BRC staging area; various pieces of radio communications equipment; and radiological (not maintained by BRC) and decontamination equipment under the control of Amarillo or Potter County.

1. Maintained and tested warning system and AIP equipment.
2. Began a remodel of the BRC staging area. Includes restroom and plumbing repairs, paint, and lighting. Will eventually ease the setup procedures for BRC.
3. Ordered video equipment to be used at BRC staging area.
4. Ordered a badge type security system for the EOC.

B. Action Item: As agreed upon, continue to repair, maintain, upkeep, conduct preventive maintenance, and test all outdoor warning sirens in the EPZ to include activation devices in each local EOC or Sheriff's Office.

1. Conducted maintenance and testing of EPZ sirens.
2. Warning System Test.
3. A different Siren Technician is being trained.
4. Coordinated testing with Pantex for sirens in the EPZ after reports of false activations.
5. Upgraded the antenna system and installed a new antenna on the outdoor siren in Washburn (Armstrong County)

C. Action Item: Review and provide comments on updated hazard assessments conducted by the Pantex plant, as appropriate. Proposed protective action recommendations will be reviewed and comments provided to DOE.

No activity during this quarter.

D. Action Item: Review and comment, as appropriate, on Pantex emergency plans and procedures related to radiological or hazardous materials incidents, maintain current copies of such plans and procedures.

1. Critiqued EMEX-02 open line procedures with Dee Dee Smith, DPS Pantex Planner.
 2. Met with Gary Froemsdorf, Bureau of Radiation Control, on staging area setup procedures.
- E. Action Item: In coordination with Pantex officials, design, schedule, conduct and evaluate periodic joint emergency exercises and drills. Participate in such exercises and drills to the extent possible.
1. Participated in Pantex emergency notification drills.
 2. Participated in controller/evaluator training for EMEX-02 exercise.
 3. Participated in EMEX-02 Exercise.
- F. Action Item: Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
1. Attended AIP Task III meeting.
 2. Attended AIP Quarterly Meeting.
 3. Met with DOE Oversight and Assurances personnel on issues surrounding the upcoming plant review.
 4. Attended Radiological Monitoring Class presented in Amarillo by Gary Froemsdorf, Bureau of Radiation Control.
- G. Action Item: Review current information to assess the effect of the maximum credible accident.
1. Attended Germ Warfare Seminar. This one day event included an overall prospective on preparation for terrorism events. The main purpose was to increase medical communities awareness of a biological threat
 2. The City of Amarillo through the Department of Emergency Management has developed an electronic situation report which is distributed to departments. This report is a compilation of homeland security and terrorism information.
- H. Action Item: Participate in periodic notification exercises and communications drills.

Participated in Pantex emergency notification drills.

I. Action Item: Develop public information materials and programs.

No activity during this quarter.

J. Action Item: Develop procedures and maintain the Reception Center located at the Tri-State Fair Grounds.

Checked facility for maintenance needs.

III. Other Emergency Management Activities:

A. MMRS program - Created development team and a steering committee
Pharmaceutical plans and other contract deliverables are being established.

B. Organizing a chemical tabletop exercise.

C. Annex Q – Hazardous Materials Response to the Potter/Randall Emergency Operations Plan was reviewed, revised, and approved.

IV Projected Expenses:

FY02 Budget	\$	48,492.00
Supplemental Funding Received	\$	49,000.00
First Quarter Expenses	\$	9,430.80
Second Quarter Expenses	\$	10,214.20
Third Quarter Expenses	\$	8,953.31
Fourth Quarter Expenses	\$	68,893.69
Total Funds Available	\$	0.00

V. Approximate FY02 Expenses to Date:

Expended	\$	66,713.05
Encumbered	\$	30,778.95

ARMSTRONG COUNTY

AGREEMENT IN PRINCIPLE QUARTERLY REPORT

***4TH QUARTER
FISCAL YEAR 2002
JULY 2002 – SEPTEMBER 2002***

**ARMSTRONG COUNTY
QUARTERLY AIP REPORT**

For the Period
**July 1, 2002 through
September 30, 2002**

I. *Scope of Work Objectives:*

- A. Review and provide comments on updated hazard assessments conducted by the Pantex plant, as appropriate. Proposed protective action recommendations will be reviewed and comments provided to the DOE.
- B. Review and comment, as appropriate, on Pantex emergency plans and procedures related to radiological or hazardous materials incidents; maintain current copies of such plans and procedures.
- C. In coordination with Pantex officials, design, schedule, conduct and evaluate periodic joint emergency exercises and drills. Participate in such exercises and drills to the extent possible.
- D. Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
- E. Review current information to assess the effect of the maximum credible accident.
- F. Participate in periodic notification exercises and communications drills.
- G. Develop public information materials and programs.
- H. Develop procedures for utilizing the Reception Center located at the Tri-State Fair Grounds.
- I. Other

II. *Task III Accomplishments:*

- A. Action Item: Review and provide comments on updated hazard assessments conducted by the Pantex plant, as appropriate. Proposed protective action recommendations will be reviewed and comments provided to the DOE.

No activity this quarter.

- B. Action Item: Review and comment, as appropriate, on Pantex emergency plans and procedures related to radiological or hazardous materials incidents; maintain current copies of such plans and procedures.
1. Armstrong County's Emergency Management Coordinator is currently working on updating all emergency plans and procedures related to radiological or hazardous materials incidents.
 2. The Emergency Management Coordinator updated the Armstrong County Basic Plan and is currently working on updating Annexes.
- C. Action Item: In coordination with Pantex officials, design, schedule, conduct and evaluate periodic joint emergency exercises and drills. Participate in such exercises and drills to the extent possible.
1. Armstrong County participated in joint emergency exercises and drills in coordination with Pantex officials.
- D. Action Item: Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
1. Participated in monthly meetings with DEM's Pantex Planner, the Pantex plant staff and other local governments to review and resolve emergency management issues.
 2. The Emergency Management Coordinator was scheduled to attend G610 School but due to flooding in Austin, the school was cancelled. EMC is currently rescheduling this training.
- E. Action Item: Review current information to assess the effect of the maximum credible accident.
- No activity this quarter.
- F. Action Item: Participated in periodic alert/notification exercises and communications drills.
1. Participated in one periodic alert/notification exercise and communications drill with Pantex, other AIP members and liaisons.
- G. Action Item: Develop public information materials and programs.
- No activity this quarter
- H. Action Item: Develop procedures for utilizing the Reception Center located at the Tri-State Fair Grounds.
- No activity this quarter.

I. Action Item: Other

1. Met with Williams Pipeline on July 26, 2002, to discuss how to handle pipeline disaster. The EMC coordinated the attendance of the Emergency Management Executive Director, Fire Chiefs and emergency personnel from the Claude, Washburn and Wayside Fire Departments at this meeting.

III. Significant Changes from Intended Activities

None

IV. *Significant Issues*

None

V. *Projected Expenses*

\$13,360.00

VI. *Approximate Actual FY01 Expenses to Date*

\$7,688.55

CARSON COUNTY

AGREEMENT IN PRINCIPLE QUARTERLY REPORT

***4TH QUARTER
FISCAL YEAR 2002
JULY 2002 – SEPTEMBER 2002***

Carson County

Quarterly AIP Report

4th Quarter

I. Scope of Work Objectives:

A. Carson County's participation in the Agreement-In-Principle is concentrated on Task III, Emergency Management. Carson County's objectives with respect to AIP Task III as directed by the County Judge and the Emergency Management Coordinator include:

1. Review and comment on hazard assessments recommended by the Pantex Plant and proposed protective action recommendations.
2. Update State plans, annexes and procedures pertaining to radiological or hazardous materials incidents at the Pantex Plant.
3. Review, comment on and maintain copies of Pantex emergency plans and procedures pertaining to radiological or hazardous materials incidents.
4. Coordinate routine exercises of emergency equipment and procedures.
5. Participate in periodic joint emergency response exercises and drills.
6. Coordinate exercise activities with Pantex and state officials.
7. Review current information to assess the effect of the maximum credible accident.
8. Participate in periodic notification exercises and drills.
9. In the event of an incident at Pantex potentially affecting the off-site population, initiate emergency response actions according to established guidelines, directives and/or standard operating procedures.
10. Attend radiological or other applicable training as presented by DOE or state organizations.
11. Assist other local governments or state agencies in updating emergency plans and procedures.
12. Develop emergency plans to prepare for a radiological or hazardous material incident at the Pantex Plant.
13. Assist other AIP members in developing emergency public information materials and programs.
14. Participate in AIP public meetings and respond to public concerns about Pantex.

B. Task IV objectives – not applicable.

II. Task III Accomplishments:

A. Action Item: Update Carson County's plans, annexes and procedures pertaining to radiological or hazardous materials incidents at the Pantex Plant.

1. Finishing up last of Carson County emergency management plan and all of the annexes. Plan being submitted to State for approval this month.

B. Action Item: Review, comment on and maintain copies of Pantex Emergency Preparedness Plans (EPP) and other procedural documents pertaining to radiological or hazardous materials incidents.

1. Maintained controlled copies of Pantex Emergency plans and procedures for use in the Carson County EOC.

C. Action Item: Coordinate routine exercises of emergency equipment and procedures and participate in periodic joint emergency response exercises and drills with Pantex officials.

1. Carson County emergency personnel participated in an exercise with Pantex using the notification number.

D. Action Item: Participate in periodic notification exercises and drills.

1. Carson County participated in periodic alert/notification and communication tests with Pantex and other AIP members.

E. Action Item: Participated in emergency training classes/conferences according to local, state and other directives.

1. Carson County EMC attended 1 emergency management class during the quarter to further the knowledge needed to fulfill the duties as EMC.
2. Carson County EMC attended local LEPC meetings with other local agencies to fulfill duties as EMC.

F. Action Item: Carson County officials participate in AIP and other public meetings and respond to public concerns about Pantex.

1. Carson County officials attended "monthly AIP meetings" with other AIP member representatives.
2. Carson County Judge attended several Pantex Plant Citizens Advisory Board (PPCAB) meetings acting as a board member.



BUREAU OF ECONOMIC GEOLOGY

THE UNIVERSITY OF TEXAS AT AUSTIN

*University Station, Box X • Austin, Texas 78713-8924 • (512) 471-1534 • FAX (512) 471-0140
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Pantex AIP Program

Quarterly Report

Third Quarter, FY2002

July through September 2002

Bureau of Economic Geology
The University of Texas at Austin

**The University of Texas at Austin
Bureau of Economic Geology
Fourth Quarter, Fiscal year 2002**

Program Scope and Objectives

The Bureau of Economic Geology (Bureau) is to provide its technical expertise in various disciplines in geology and hydrology as needed to assist the State of Texas and the Department of Energy (DOE) in the completion of Task II (environmental monitoring) and Task IV (independent review of DOE Pantex NEPA documents) activities under the Pantex Agreement in Principle (Pantex AIP).

Task II—Environmental Monitoring: Continued Monitoring for Estimating Temporal Variability of Water Movement in the Interplaya Unsaturated Zone

- Evaluate temporal variability in infiltration and evapotranspiration in the shallow subsurface active zone.
- Evaluate potential for upward water movement below shallow subsurface active zone in an interplaya setting at the Pantex Plant and adjacent to Playa 5.
- Provide interpreted data to DOE for use, for example, in site wide environmental summaries and in design of environmental engineering features.

Task IV—Technical Support and Independent Review of DOE Pantex NEPA Documents

Bureau staff upon request by the State Energy Conservation Office will:

- Participate in quarterly status meetings.
- Provide quarterly status reports.
- Participate in the AIP public meetings to discuss State oversight activities at Pantex.
- Provide as requested technical reviews of selected Pantex environmental compliance documents.
- Provide as requested reports and brochures for public education on Pantex.
- Provide technical assistance to the Pantex Plant Citizen's Advisory Board.
- Participate in environmental compliance or emergency management meetings.

Accomplishments during the Third Quarter

Task II—Environmental Monitoring: Continued Monitoring for Estimating Temporal Variability of Water Movement in the Interplaya Unsaturated Zone

Monitoring at the Playa 5 station is continuing. The monitoring results are shown in Figure 1. We were unable to download the monitoring data from the Pantex station at the end of June. Robert Reedy visited the station in July and it appeared that the site had been hit by lightning. Some of the monitoring instruments were sent to the manufacturers to determine if they could be repaired.

Numerical modeling of upward flow in an interplaya setting was completed. The simulations were able to reproduce the upward water potential gradients and chloride accumulation and indicated that water has been moving upward for at least 1,000 yr and possibly much longer (up to 8,000 yr). These results indicate that the potential for groundwater contamination in natural interplaya settings is low.

Task IV—Technical Support and Independent Review of DOE Pantex NEPA Documents

Robert Reedy attended the Pantex AIP meeting on July 23rd in Amarillo.

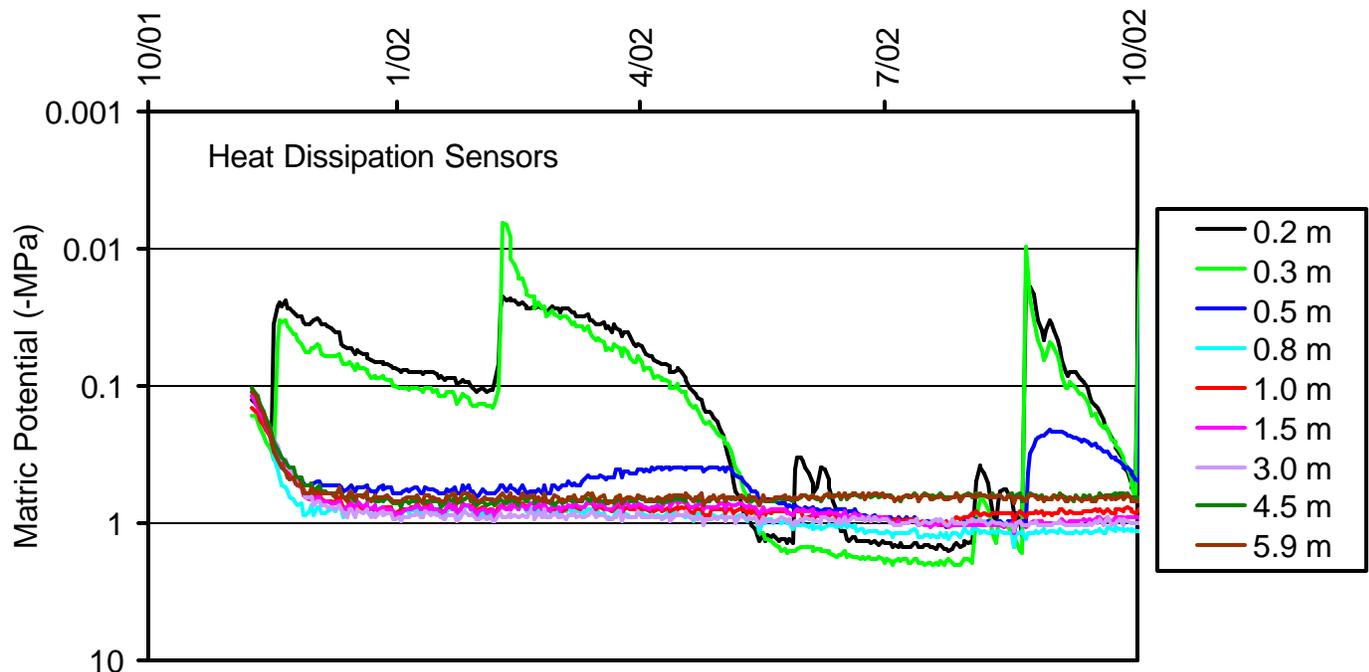


Figure 1. Variations in water pressures monitored with heat dissipation sensors from October 2001 through October, 2002. The data indicate wetting to 0.3 m depth during the winter period and drying during the summer (2002).

OFFICE OF THE ATTORNEY GENERAL

STATE OF TEXAS

PANTEX PROGRAM

QUARTERLY REPORT

FOURTH QUARTER, FISCAL YEAR 2002

OFFICE OF THE ATTORNEY GENERAL

I. Scope of Work/Objectives:

A. The Office of the Attorney General provides advice, representation, analysis, and reports on issues relating to the federal government's expressed intent to reconfigure the nuclear weapons complex, including any resulting change of mission at Pantex; on issues relating to disassembly of nuclear weapons and storage of weapons components, including, but not limited to, the storage of plutonium pits at Pantex; on issues relating to the preparation by the Department of Energy or any other agency of documents required by the National Environmental Policy Act that concern Pantex; and on issues relating to the placement or removal of the Pantex facility on the National Priorities List (NPL) of federal Superfund sites. Personnel of the Office of the Attorney General also (1) consult with and provide briefings for various other agencies of the State of Texas as required, (2) attend relevant meetings at its discretion and at the request of the Office of the Governor, and (3) evaluate and provide comments on proposed policies and plans related to the reconfiguration process and any resulting change of mission at Pantex, disassembly and weapons components storage, and the federal Superfund process. In furtherance of the services it agrees to provide, the Office of the Attorney General may engage the assistance of subcontractors as appropriate.

II. Accomplishments:

A. Participated in Fourth Quarter 2002 Agreement in Principle (AIP) meeting (July 23, 2002, Amarillo, Texas).

B. Responded to requests for information and legal analysis from participating state agencies.

III. Significant Changes from Intended Activities:

None.

IV. *Significant Issues:*

None.

V. *Projected Expenses:*

FY 02 Budget	\$ 15,000.00
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VI. *Approximate FY 02 Expenses to Date:*

A. Expended	\$ 12,000.00
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B. Encumbered (Travel)	\$ 2,000.00
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