
Agreement in Principle

THE STATE OF TEXAS

GRANT NO. DE-FG04-90AL65780



QUARTERLY REPORT

4TH QUARTER

FISCAL YEAR 2001

JULY 1, 2001 - SEPTEMBER 30, 2001



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

QUARTERLY REPORT

July 1, 2001 Through September 30, 2001

The State Energy Conservation Office (SECO) has compiled this report for the fourth quarter of Fiscal Year 2001. SECO's activities 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 they've accomplished in 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
July 1, 2001 through September 30, 2001

AGENCY	FFY01 BUDGET	ACTUAL & PROJECTED EXPENDITURES		FFY01 BALANCE
		Defense Programs	Environmental Management	
State Energy Conservation Office	\$ 206,569.61	\$ 138,437.65 ^a \$ 375.00 ^p		\$ 67,756.96
Texas Natural Resource Conservation Commission	\$ 500,000.00		\$ 328,542.41 ^a \$ 161,457.59 ^p	\$ 10,000.00
Texas Department of Health	\$ 290,500.00	\$ 157,871.48 ^a \$ 125,128.52 ^p		\$ 7,500.00
Texas Department of Public Safety	\$ 165,500.00	\$ 143,634.67 ^a		\$ 21,865.33
City of Amarillo	\$ 91,080.00	\$ 49,268.75 ^a \$ 37,887.25 ^p		\$ 3,924.00
Armstrong County	\$ 20,800.00	\$ 20,800.00 ^a		\$ -
Carson County	\$ 14,000.00	\$ 9,447.55 ^a \$ 4,552.45 ^p		\$ -
Bureau of Economic Geology	\$ 90,000.00	\$ 10,277.42 ^a	\$ 41,109.66 ^a	\$ 38,612.92
Office of the Attorney General	\$ 15,000.00	\$ 15,000.00 ^p		\$ -
TOTAL	\$1,393,449.61	\$ 712,680.74	\$ 531,109.66	\$ 149,659.21
BUDGET BY DOE PROGRAM*		\$ 798,354.88	\$ 595,094.73	
FUNDS AVAILABLE BY DOE PROGRAM		\$ 85,674.14	\$ 63,985.07	

a = actual expenditures reimbursed to date p = grant recipient's projected expenditures through 9/30/01

**Note: The DP budget includes \$725,000 in '01 funding (Amendment A028) plus \$73,354.88 in FY00 carryover for a total of \$798,354.88.
The EM budget includes \$498,000 in '01 funding (Amendment A027) plus \$97,094.73 in FY00 carryover for a total of \$595,094.73.*

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CARSON COUNTY

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**OFFICE OF THE
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**TEXAS NATURAL RESOURCE
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**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT**

***FOURTH QUARTER
FISCAL YEAR 2001
JULY 2001 - SEPTEMBER 2001***

Agreement-in-Principle Quarterly Report

Texas Natural Resource Conservation Commission

July - September 2001

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 Natural Resource Conservation Commission (TNRCC) 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 TNRCC/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;
 - Coordinate and participate in public meetings to discuss state oversight, provide updated groundwater monitoring reports, and respond to public concerns;

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- Co-monitor Pantex's groundwater for volatile organic compounds, semi-volatile organic compounds, heavy metals, high explosives, and general water chemistry analytes; and,
 - Perform an independent evaluation of environmental monitoring data collected by the Department of Energy (DOE).
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, TNRCC 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

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information or results of additional environmental sampling at the DOE-Pantex facility; and,

- Assist in the establishment of health-based protective levels for use in evaluating monitoring data.

5. **Legal Division** - The Legal Division provides support to the TNRCC 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 TNRCC, 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;
- Attended and participated in one pre-submittal Compliance Plan application meeting held between DOE and TNRCC on July 10, 2001;
- Participated in one Agreement-In-Principle quarterly meeting held in Amarillo on July 11, 2001;
- Participated in four (4) technical meetings with DOE regarding the Environmental Restoration Program during the reporting period. The primary focus of the meetings were the Base Line Risk Assessment at Pantex; the Soil Venting Extraction System at the Burning Grounds; the status of impacts to groundwater in the Perched and Ogallala Aquifers; the status of perchlorate contamination at Pantex; and the FLUTE Monitor Well System. The technical meetings are part of the expedited review process developed by DOE;
- Participated in two (2) visualization meetings during the reporting period to expedite the review of critical decision-making documents requested by DOE. The expedited

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review allows DOE to develop a Scope of Work for their RCRA Facility Investigations;

- Attended and participated in two (2) “Pantex Core Team” meetings held during the reporting period to support the Pantex project;
- Participated in teleconferences held biweekly to discuss the status of the Environmental Restoration Projects;
- TNRCC’s contractor (Texas A&M’s Center for Applied Technology) participated in a groundwater modeling committee to determine an appropriate groundwater model for the Pantex facility;
- TNRCC’s contractor (Texas A&M’s Center for Applied Technology) evaluated Pantex’s environmental investigation reports to determine if inappropriate laboratory data (i.e., ITS-ENV, Inchcape Testing Services, Intertech Testing Services and NDRC Laboratories) were used to establish final closure decisions for RFI waste management units;
- Reviewed and submitted comments to DOE for seven (7) documents during the reporting period. The review was expedited as per the request of Pantex; and,
- Attended one (1) Pantex Plant Citizens Advisory Board (PPCAB) meeting during the reporting period.

2. Field Operations Division

- Conducted DOE scheduled quarterly groundwater sampling at Pantex which took place from July 26 - August 21, 2001;
- Completed data validation of the first quarter 2001 groundwater data collected by the TNRCC;
- Completed data validation of sampling data collected from domestic wells adjacent to Pantex;
- Hosted quarterly Agreement-In-Principle meeting in the TNRCC Region 1, Amarillo office;
- Hosted quarterly citizen’s group meeting in the Region 1 office;

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- TNRCC/DOE co-hosted one round table public meeting with concerned citizens;
- Attended two PPCAB scheduled meetings;
- Attended PPCAB environmental task force committee meeting;
- Attended technical meetings regarding the hazardous waste permit, the compliance plan and other pertinent issues;
- Contracted with Severn Trent Laboratories to analyze third quarter groundwater samples for explosives; and,
- Contracted with Talem Laboratories to analyze third quarter groundwater samples for volatile organic compounds (VOCs).

3. Monitoring Operations Division

- Five sets of PM10 and volatile organic compound samples were collected and analyzed from the two TNRCC monitoring sites at Pantex during this quarter. Additionally three sets of quality assurance samples were collected during this period. 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 was recorded at 35 micrograms per cubic meter at Site #5 Quality Assurance Sampler 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 TNRCC web page, <http://www.tnrcc.state.tx.us/cgi-bin/monops/dailysummary>;
- The second quarter 2001 data submitted by Pantex from their monitoring site was reviewed and all concentrations reported were below their respective ESLs; and
- No environmental assessment, environmental impact statements, or other documents were submitted for review for potential air quality impacts.

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4. Toxicology and Risk Assessment (TARA) Section

- Performed two toxicological evaluations of the groundwater monitoring data collected by TNRCC from the DOE-Pantex facility (samples collected November 2000 and January - March 2001);
- Reviewed from a toxicological perspective the air monitoring data from the DOE-Pantex facility (samples collected for the 1st quarter 2001 by Pantex);
- Edited and added comments to the draft version of the Quality Assurance Project Plan for the groundwater monitoring program;
- Attended the Agreement-in-Principle meeting in Amarillo;
- Attended a technical meeting to discuss Pantex's RCRA permit;
- Reviewed and provided technical comments to the Industrial Hazardous Waste Section regarding Pantex's proposal to change their "Burning Ground Monitoring Plan";
- Attended a technical meeting to discuss Pantex's air permit application;
- Reviewed Pantex's air permit application and proposed modifications;
- Reviewed and commented on Pantex's "Final Risk Reduction Guidance to The Pantex Plant RFI;" and,
- Prepared a presentation for the public about the health effects of groundwater constituents at Pantex.

5. Legal Division

- Provided legal assistance as needed to TNRCC staff regarding AIP activities; and,
- Attended the Third Quarter AIP Meeting in Amarillo.

Quarterly Expenditures for each Program For Reporting Period

1 **Remediation Division**

Total budget for this fiscal year (October 1, 2000 - September 30, 2001) for the Remediation Division activities is \$183,000. Budgeted expenditures for the quarter (1/4 of the budgeted amount) are \$45,750. Total estimated expenditures for this quarter (August and September numbers are projected) are \$74,500.00.

2. **Field Operations Division**

Total budget for this fiscal year (October 1, 2000 - September 30, 2001) for the Field Operations Division activities is \$180,000. Budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$45,000. Total estimated expenditures for this quarter (August and September numbers are projected) are \$40,600.00.

3. **Monitoring Operations Division**

Total budget for this fiscal year (October 1, 2000 - September 30, 2001) for air monitoring activities is \$120,000. However, \$37,000 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 (August and September numbers are projected) are \$14,000.00.

4. **Toxicology and Risk Assessment (TARA) Section**

Total budget for this fiscal year (October 1, 2001 - September 30, 2001) for toxicological activities is \$15,000. Budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$3,750. Total estimated expenditures for this quarter (August and September numbers are projected) are \$3,300.00.

5. **Legal Division**

Total budget for this fiscal year (October 1, 2000 - September 30, 2001) for the Legal Division activities is \$2,000. Budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$500. Total estimated expenditures for this quarter (August and September numbers are projected) are \$1,500.00.

Milestones and Other Key Events:

1. Remediation Division

- Coordinated with the Pantex Core Team to develop a conceptual groundwater model for the Burning Grounds Waste Management Area;
- Conducted a review on approximately 45 RCRA Facility Assessment (RFA) solid waste management units. An administrative closure was issued for 22 Solid Waste Management Units;
- Participated in a public meeting (NEPA requirements) to discuss the status of corrective action and the process of obtaining a Compliance Plan (corrective action document);
- Continued work on the primary decision-making documents (Background Study, Base Line Risk Assessment procedures) in several technical meetings with DOE; and,
- Coordinated with DOE-Pantex to establish interim stabilization procedures, as necessary, and a contingency plan for impacted groundwater beyond Pantex's northern property boundary.

2. Field Operations Division

- Coordinate quarterly groundwater sampling beginning on October 15, 2001;
- Review second quarter compilations of Pantex groundwater data; and,
- Consolidate all archived groundwater data into a single database.

3. Monitoring Operations Division

- Prepared revision to the Quality Assurance Project Plan and forwarded to the DOE for their approval; and,
- Analyzed air samples for volatile organic compounds (VOCs) and particulate matter.

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4. Toxicology and Risk Assessment Section

- Participated in developing a quality assurance project plan (QAPP) for groundwater monitoring; and,
- Reviewed the Pantex document entitled “Final Risk Reduction Rule Guidance to the Pantex Plant RFI” (June 1999).

5. Legal Division

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

Information in quarterly report provided by TNRCC AIP Members.

Robert Musick,
TNRCC Pantex Project Coordinator

Date

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

**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT**

***FOURTH QUARTER
FISCAL YEAR 2001
JULY 2001 - SEPTEMBER 2001***

TEXAS DEPARTMENT OF HEALTH

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

PANTEX AIP IMPLEMENTATION REPORT

July 2001 thru September 2001

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 First Quarter 2001 Radiological and Mixed-Waste Inventory Reports.

FY 01 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 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

* Collected routine environmental samples of specified media. Completed radio nuclide analysis of 5 soil, 1 playa sediment, and 3 drinking water samples.

* Exchanged thermoluminescent dosimeters on pre-arranged schedule. Provided documentation of results for the Second Quarter 2001 monitoring periods.

* Completed review of Environmental Data Compilations for the First Quarter 2001.

FY 01 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.
- * Participated in DOE Pantex Emergency Exercise 01-2 scenario planning meetings.
- * Participated in Emergency Exercise 01-2. Four BRC players participated in exercise activities.
- * Performed scheduled maintenance and calibration on pre-positioned radiological monitoring equipment at the BRC Staging Area. Conducted on-the-job training on calibration of the equipment for a back-up technician.
- * Performed scheduled calibration of radiation detection instrumentation to be utilized by BRC Field Survey Teams and Contamination Control Teams.
- * Provided radiological training to three Amarillo Fire Department Hazmat Teams for Reception Center Monitoring and Decontamination operations. Due to shift scheduling, three separate trips were required to accomplish this training.
- * Initiated upgrade of the BRC Pantex-Area emergency communication system. Completed move of the radio repeater from Pantex Plant property to the Carson County Sheriff Department and replaced the associated cables and antenna. Purchase Orders have been submitted for equipment to be located at the Brc Staging Facility in Amarillo.

FY 01 EXPENSES THIS QUARTER: NOT AVAILABLE AT TIME OF REPORT.

Significant Issue/Change from Intended Activity:

- Delivery of the upgrade radio equipment from the manufacturer has been adversely affected by the recent terrorist acts upon the Nation. We have been unable to determine the location of the shipment to date.

NEPA IMPLEMENTATION

Scope of Work/Objectives

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

Accomplishments

- * Participated in Pantex Plant Citizens' Advisory Board.

FY 00 EXPENSES THIS QUARTER:

TEXAS DEPARTMENT OF HEALTH ESTIMATED FY 2001 BUDGET: \$290,500

Approximate Expenses July thru September, 2001: Not available.

Texas Department of Public Safety

Division of Emergency Management

Pantex Program

Quarterly Report

Fourth Quarter, Fiscal Year 2001

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

Fourth Quarter, Fiscal Year 2001

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. Annex N, Direction & Control, to the *State of Texas Emergency Management Plan* was completed during the quarter. At the end of the quarter, the annex was in the process of approval, which is expected during October.
 - 2. During the quarter, DEM made changes to the staffing pattern for the State Emergency Operations Center (EOC) to integrate additional personnel into its three EOC teams.
- 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. Disaster District 5B maintained controlled copies of Pantex emergency plans and procedures for use in its EOC.
 - 3. DEM personnel reviewed and provided comments to the DOE Amarillo Area Office on the following Pantex emergency preparedness procedures (EPPs):

- a) EPP-1010, Pantex Plant Emergency Management Training Program
- b) EPP-8004, Pantex Plant Hazardous Materials Response Team (HMRT) Guidelines
- c) EPP-1006, Pantex Plant Emergency Management Exercise Program
- d) EPP-8003, Pantex Plant Radiological Assistance Team Procedures (Emergency Radiation Treatment Facility)

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

- 1. The DEM Pantex Planner coordinated with the Pantex Emergency Management Department and local governments a no-notice exercise. The exercise was conducted on July 19. DEM's Pantex Planner participated in the exercise and subsequent critique.
- 2. DEM personnel participated in a series of planning meetings with the Pantex Emergency Management Department, local governments, volunteer groups, and federal agencies and coordinated activities for a post-disaster recovery tabletop exercise that will continue emergency operations begun in an earlier exercise. That exercise was conducted on August 16, 2001. Representatives of DEM and Disaster District 5-B in Amarillo participated in the exercise and subsequent critique.
- 3. DEM's Pantex Planner participated in a Carson County tabletop exercise involving emergency management personnel and law enforcement, fire, and EMS representatives.

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 Task III (Emergency Management) meeting held in Amarillo on July 10 and the quarterly Agreement in Principle meeting held the following day.
- 2. DEM's Pantex Planner participated in periodic 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. Disaster District 5B 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 37 contacts with local governments and state agencies to develop emergency plans, procedures, and other materials for a Pantex emergency.
2. DEM personnel were involved in 19 contacts with DOE and the Pantex Plant staff, volunteer groups active in disasters, industry, and other groups regarding Pantex-related emergency management programs.
3. DEM's Pantex Planner reviewed Carson County's *Emergency Management Plan* and made recommendations to the County emergency management staff for updates to the following annexes:

- a) Annex T, Donations Management
 - b) Annex V, Terrorist Incident Response
4. DEM's Pantex Planner also reviewed Carson County's Hazard Analysis and made recommendations to the County emergency management staff to update it.
5. DEM's Pantex Planner reviewed Armstrong County's *Emergency Management Plan* and made recommendations to the County emergency management staff for updates to the following annexes:
- a) Annex A, Warning
 - b) Annex B, Communications
 - c) Annex C, Shelter & Mass Care
 - d) Annex E, Evacuation
 - e) Annex F, Firefighting
 - f) Annex G, Law Enforcement
 - g) Annex H, Health & Medical
 - h) Annex I, Emergency Public Information
6. DEM's Pantex Planner also reviewed Armstrong County's Hazard Analysis and made recommendations to the County emergency management staff to update it.
- K. 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.
3. The DEM Regional Liaison Officer 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.
4. The DEM Plans Unit staff receives and reviews emergency management plans and plan annexes developed by local governments and maintains data on the status of emergency planning in each jurisdiction in the vicinity of the Pantex Plant.
- L. Action Item: Assist local governments in developing emergency public information material and programs.
3. The DEM staff provided a review copy of the *2002 Pantex Area Emergency Preparedness Calendar* to Pantex program participants in July, updated the calendar draft based on comments, and executed a

contract for printing the calendar. The calendar will be printed during November.

4. DEM prepared a Pantex area emergency preparedness advertisement for the inside front cover of the 2002 Amarillo area telephone directory and executed a contract for with Southwestern Bell Yellow Pages for its publication.
5. During the quarter, DPS Graphic Arts completed minor revisions to the Pantex Emergency Planning Zone and reception center graphics used in a variety of emergency public information materials.

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

No activity this quarter.

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

No activity this quarter.

O. Other:

1. AIP-funded staff members participated in several emergency management conferences, workshops, and training courses during the quarter.
 - a) DEM's Pantex Planner participated in training on Foreign Animal Disease conducted in Amarillo in mid September.
 - b) In September, three DEM staff members attended radiological emergency preparedness training conducted in Denton, Texas, and participated in the State Radiological Emergency Preparedness meeting held in conjunction with that training.
 - c) DEM's Pantex Planner completed several Federal Emergency Management Agency independent study courses during the quarter.
 - d) DEM staff participated in an Emergency Management Performance Grant workshop in Amarillo on July 27.
2. DEM's Pantex Planner attended monthly meetings of the Pantex Plant Citizens Advisory Board.

III. *Significant Changes from Intended Activities:*

None.

IV. *Significant Issues:*

DEM's Administrative Technician who supports the Pantex program in Austin left DPS in September. A replacement was hired in October.

V. *Projected Expenses:*

FY 01 Budget	\$ 165,500.00
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VI. *Approximate Actual FY 01 Expenses To Date*

Expended	\$ 143,698.13
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This figure is subject to adjustment, as some FY 01 expenses billed in October may be paid in November.

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

CITY OF AMARILLO/POTTER COUNTY

**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT
4th QUARTER, FISCAL YEAR 2001**

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 Pantex tabletop exercise. Organized supplies at the Reception Center. Siren Tech was trained on repair and maintenance of outdoor siren system. Updated EIS Software database. Packet System tested with Pantex EOC and a new system ordered. Hosted Radiological Monitor Training. Purchased security gate for BRC staging area. Ordered an upgrade to the EPZ outdoor warning system.

Amarillo/Potter/Randall Department of Emergency Management
AIP Quarterly Report
4th Quarter, Fiscal Year 2001

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. Continue monthly warning test.
- D. Conduct, as requested, public outreach sessions in regard to Pantex and warning systems.
- E. Maintain various types of response software.
- F. Provide emergency preparedness information programs and materials.
- G. Reception Center responsibilities to include:
 - a. Provide training and conduct operational exercises.
 - b. Maintain equipment and facility.
 - c. Maintain "Reception Center Standard Operating Guidelines".
- H. Participate in Pantex Emergency Exercises and Drills if possible.
- I. Maintain BRC staging area.
- J. Attend AIP meetings, prepare necessary documentation concerning AIP matters, and maintain budget and financial reporting requirements.

- K. Conduct emergency preparedness planning and training with Highland Park Independent School District located in the EPZ.
- L. Update plans and procedures based on findings from the Pantex Full Scale Exercise "Verser Partout" conducted in August 2000.

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. Moved rad source set to more central location and re-licensed.
 2. Cleaned Reception Center and completed general maintenance on some of the equipment.
 4. Distributed EAR's to 3 new facilities in the EPZ.
 5. Purchased video control center to be used in EOC for presentations and emergency response.
 6. Ordered radiological monitoring equipment (Smartprobes) to be kept in the EOC.
- B. Action Item: 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. Siren Tech received training from Federal Signal on siren repair and maintenance.
 3. System upgrade to digital activation for sirens in progress. To be completed when parts are received.
 4. Replaced components on siren in Washburn (Armstrong County EPZ)

- C. Action Item: Continue monthly warning test.
- Conducted daily, weekly and monthly warning system tests.
- D. Action Item: Conduct, as requested, public outreach sessions in regard to Pantex and warning systems.
- Participated in public awareness activities.
- E. Action Item: Maintain various types of response software.
1. Training held on EIS Software. Updated information to expand EIS database. Completed entry on 1994 resources, special needs, SARA facilities, shelters, and infrastructures.
 2. Tested Packet Radio System with Pantex EOC.
 3. A new packet system has been purchased to be placed in the Carson and Armstrong County EOC's and at DPS in Amarillo. The new system will be implemented as back up communications for emergencies.
- F. Action Item: Provide emergency preparedness information programs and materials.
- No activity during this quarter.
- G. Action Item: Reception Center responsibilities to include: provide training and conduct operational exercises; maintain equipment and facility; maintain "Reception Center Standard Operating Guidelines".
1. Reorganized supplies and equipment to aid in rapid deployment as necessary.
 2. Purchased supplies and equipment that will ease the setup of the Reception Center
 3. 48 Firefighters and 1 Emergency Management trained by Gary Froemsdorf in radiological monitoring.
- H. Action Item: Participate in Pantex emergency exercises and drills if possible.
1. Participated in Pantex emergency notification drills.

2. Held tabletop exercises and met with various offsite groups in preparation of Pantex Recovery Exercise.
 3. Participated in Pantex Recovery Exercise on August 16th.
- I. Action Item: Maintain BRC staging area.
1. Maintained equipment and facility as necessary.
 2. Purchased automatic gate for security of staging area.
- J. Action Item: Attend AIP meetings, prepare necessary documentation concerning AIP matters, and maintain budget and financial reporting requirements.
1. Attended AIP Task III discussion meeting at the Ambassador Hotel in Amarillo.
 2. Attended Quarterly AIP meeting at TNRCC in Amarillo.
- K. Action Item: Conduct emergency preparedness planning and training with Highland Park Independent School District located in the EPZ.
- No activity during this quarter.
- L. Action Item: Update plans and procedures based on findings from the Pantex Full Scale Exercise "Verser Partout" conducted in August 2000.
- No activity during this quarter.

III. Other Emergency Management Activities:

- A. Activated the indoor and outdoor warning systems in the Potter EPZ for a potential tornado September 19, 2001.
- B. Partial activation of the EOC on Sept 11, 2001 due to terrorism activities in New York. Answered many requests from the media and the public. Reassured the public and practiced rumor control. Pantex work force was reduced to nonessential personnel only for 1 week.

IV. Projected Expenses:

FY 01 Budget	\$	47,080.00
Additional Funds	\$	44,000.00
Total Funds Available	\$	91,080.00

V. Approximate Actual FY 01 Expenses to Date:

A.	Expended	\$	60,752.00
B.	Encumbered	\$	27,641.00

ARMSTRONG COUNTY

AGREEMENT IN PRINCIPLE QUARTERLY REPORT

***FOURTH QUARTER
FISCAL YEAR 2001
JULY 2001 - SEPTEMBER 2001***

ARMSTRONG COUNTY QUARTERLY AIP REPORT

For the Period
July 1, 2001 through September 30, 2001

I. *Scope of Work Objectives:*

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

- 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.
1. The Emergency Management Coordinator is working with the DEM/BWXT Coordinator on updating Annexes B, D, E, F, G, H, I.
- 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 with the DEM/BWXT Coordinator on updating the Hazard Analysis Plan and the Basic Emergency Operations Center Plan for Armstrong County.
- 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. Participated in planned meetings for joint exercises.
 2. Activated Armstrong County EOC according to Annex N of the County Emergency Plan during joint exercises.
- 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. On August 31, 2001, Armstrong County's Emergency Management Coordinator attended an AIP meeting with other AIP members and Pantex officials to discuss the Pantex alert/notification exercises and the problems that are occurring.
- E. Action Item: Review current information to assess the effect of the maximum credible accident.
1. No activity this quarter.
- F. Action Item: Participated in periodic alert/notification exercises and communications drills

1. Participated in two periodic alert/notification exercises and communications drills with Pantex, other AIP members and liaisons.
2. Armstrong County's Emergency Management Coordinator participated in a NNX with Pantex and other Pantex-related emergency officials
3. Armstrong County's Emergency Management Coordinator participated in a Pantex Full Scale Recovery exercise along with federal, state and local government officials.

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

1. No activity this quarter.

H. Action Item: Develop procedures for utilizing the Reception Center located at the Tri-State Fair Grounds.

1. No activity this quarter.

I. Action Item: Other

1. Armstrong County's Emergency Management Coordinator attended the Texas Disaster Recovery Course (G620) in Round Rock, Texas on September 10, 11, and 12, 2001.

III. Significant Changes from Intended Activities

None

IV. Significant Issues

None

V. Projected Expenses

\$12,000.00

VI. Approximate Actual FY01 Expenses to Date

\$20,800.00

CARSON COUNTY

AGREEMENT IN PRINCIPLE QUARTERLY REPORT

***FOURTH QUARTER
FISCAL YEAR 2001
JULY 2001 - SEPTEMBER 2001***

**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. Work continues on the revision of the Carson County emergency management plan and all of the annexes. Hope to have the new plan finished and in place by the end of October 2001.

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.
2. Used Pantex EPP's as reference documents during Pantex emergency exercises.

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 officials responded to the tabletop exercises held at Pantex using the bridge number.
2. Carson County officials participated in the Pantex Day-After exercise.
3. Carson County emergency personnel participated in a full-scale exercise with Williams Energy.

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 3 emergency management classes during the quarter to further the knowledge needed to fulfill the 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

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Pantex AIP Program

Quarterly Report

Fourth Quarter, FY2001

July 2001 to September 2001

Bureau of Economic Geology The University of Texas at Austin

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 Fourth Quarter

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

We continued to monitor and collect data at both the Playa 5 and the Pantex monitoring sites. We have nearly completed a milestone report that discusses the results of the monitoring at Playa 5 installation since 1994 and at the Pantex installation since 1998. We have been calibrating heat dissipation sensors for the past three months and have scheduled a site visit for early November to install them. Targeted installation depths range from 0.3 to 6 m (1 to 20 ft) to correspond with depths of thermocouple psychrometers at each location. Data from the heat dissipation sensors will supplement that of the thermocouple psychrometers. The sensors provide accurate ($\pm 20\%$) soil water matric potential measurements in the wet range (-0.5 to -0.01 MPa).

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

Bureau staff participated in the July 11 quarterly Pantex AIP project review meeting in Amarillo. Bureau staff also visited the Pantex Plant in August to discuss reported concentrations of contaminants in the Ogallala aquifer on the north side of the Plant and possible hydrogeologic and sampling artifact interpretations. We prepared a letter report that recommended several additional tests and calculations to prove whether results were owing to sampling techniques. We also visited with experts in the geology of the Ogallala aquifer and discussed our interpretations of regional and local groundwater flow in the aquifer.

OFFICE OF THE ATTORNEY GENERAL

STATE OF TEXAS

PANTEX PROGRAM

QUARTERLY REPORT

FOURTH QUARTER, FISCAL YEAR 2001

OFFICE OF THE ATTORNEY GENERAL

I. *Scope of Work/Objectives:*

A. The Office of the Attorney General will provide 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 will 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 2001 Agreement in Principle (AIP) meeting (July 11, 2001, in Amarillo, Texas).

B. Participated in Pantex Recovery Exercise (EMEX01-2), August 15-16, 2001, in Amarillo.

C. 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 Actual FY 01 Expenses to Date:*

A. Expended	\$ 14,500.00
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B. Encumbered (Travel)	\$ 500.00
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