
AGREEMENT IN PRINCIPLE

THE STATE OF TEXAS

GRANT No. DE-FG04-90AL65780



QUARTERLY REPORT

1ST QUARTER

FISCAL YEAR 2003

OCTOBER 1, 2002 – DECEMBER 31, 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

1st Quarter Fiscal Year 2003
October through December

The State Energy Conservation Office (SECO) has compiled this report for the first quarter of Fiscal Year 2003. 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, 2002 through December 31, 2002**

AGENCY	* PROPOSED FFY03 BUDGET	ACTUAL & PROJECTED EXPENDITURES		*FFY03 BALANCE
		Defense Programs	Environmental Management	
State Energy Conservation Office	\$183,898.00	\$36,857.42 a		\$147,040.58
Texas Commission on Environmental Quality	\$487,000.00		\$81,518.78 a	\$405,481.22
Texas Department of Health	\$299,215.00	\$48,739.51 a		\$250,475.49
Texas Department of Public Safety	\$170,465.00	\$42,616.25 p		\$127,848.75
City of Amarillo	\$48,492.00	\$10,902.01 a		\$37,589.99
Armstrong County	\$12,360.00	\$3,090.00 p		\$9,270.00
Carson County	\$14,420.00	\$2,500.89 a		\$11,919.11
Bureau of Economic Geology	\$92,700.00	\$9,461.40 a \$7,725.00 p		\$ 75,513.60
Office of the Attorney General	\$15,000.00	\$3,750.00 p		\$11,250.00
TOTAL EXPENDITURES	\$1,323,550.00	\$ 165,642.48	\$81,518.78	\$1,076,388.74
*BUDGET BY DOE PROGRAM		\$ 836,550.00	\$487,000.00	
*FUNDS AVAILABLE BY DOE PROGRAM		\$ 670,907.52	\$405,481.22	

a = grant recipient's actual expenditures reimbursed to date

p = grant recipient's projected expenditures through 12/31/02

*** NOTE: The FY03 budget has not been approved/funded by the U.S. Department of Energy as of 12/31/02 due to the continuing resolution by Congress. These figures are based upon full funding of the proposed budget submitted in the FY03 Scope of Work.**

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RESOURCE CONSERVATION
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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
CONSERVATION COMMISSION**

**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT**

1ST QUARTER

FISCAL YEAR 2003

OCTOBER 2002 – DECEMBER 2002

Agreement-in-Principle Quarterly Report
Texas Commission On Environmental Quality (TCEQ)
October - December 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 Discussion on October 7th) regarding the environmental restoration activities at DOE-Pantex during the reporting period;
- Participated in Agreement-In-Principle quarterly meeting during the reporting period (held on October 23 at the Amarillo Airport). Presented to AIP staff, a presentation on the interim stabilization program established by the Compliance Plan;
- Participated in the following technical meeting(s) to accelerate the project: a meeting with the Environmental Protection Agency (EPA) on November 12, 2002 to discuss technical issues with the Pantex Risk Reduction Rule Guidance Document. This meeting included numerous TCEQ staff to discuss the document;
- 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. Specifically, worked with the contractor on the Fire Training Area and Burning Ground RCRA and use of the Conceptual Site Model to review documents;
- Attended and participated in one "Pantex Core Team" meeting held during the reporting period (a total of 2 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, which took place from October 2 - November 20, 2002, on site at Pantex;
- Performed required preventative maintenance, audits, calibrations and inspections (e.g., SPANs) on ambient air monitoring equipment;
- Conducted six ambient air sampling events this quarter;
- Monitored for total non-methane/methane at CAMS 79 (Site 7) during the reporting period;
- Coordinated with Severn Trent Laboratory in Chicago for analysis of high explosives and 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 in Pantex groundwater samples collected during the 4th Calendar Quarter 2002;
- Attended quarterly Agreement-In-Principle meeting at Amarillo International Airport on October 23;
- Co-hosted, with the DOE, two round table public meetings with concerned citizens at the Square House Museum in Panhandle on October 7 and December 2, 2002 (there wasn't a public meeting held in November);
- Successfully completed annual ambient air audit conducted by Chris Owens from Monitoring Operations, Central Office, Austin;
- Attended quarterly Agreement-In-Principle meetings held during the reporting period; and,
- Attended one Core Team meeting and participated as technical support to the Corrective Action Section of the TCEQ.

3. Monitoring Operations Division

- Seven sets of PM10 and seven 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 received, it has passed acceptance tests, and it is expected to be deployed during the first quarter of 2003;
- 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 13 micrograms per cubic meter was recorded at Sites #5 on November 14, 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

- Participated in one Agreement-in-Principle (AIP) meeting during the reporting period;
- Attended one (1) public meeting in Panhandle on October 7th to answer questions from the public on the most recent groundwater monitoring, air monitoring, and toxicology issues at the Pantex site;
- Gave a presentation at the public meeting on the latest groundwater data, and explained the transition within the TCEQ to focusing our data review on the DOE collected data, instead of just focusing on the TCEQ data;
- Attended and participated in one (1) "Pantex Core Team" meeting held during the reporting period. The Core Team meetings support the Pantex project by expediting the RFI process;
- Participated in internal review of the Pantex Conceptual Model; and,
- Participated in internal TARA meetings to resolve comments on the Risk Reduction Rule Guidance Document that was submitted to the TCEQ.

B. Other TARA Staff

- Provided technical support for the Pantex project and contributed to document review as necessary. Specifically, technical support was provided by Peter Lodde and Torin McCoy (Statistical Support); and Ann Strahl (sampling methods, quality assurance/quality control); and
- Participated in meetings to resolve comments on the Risk Reduction Rule Guidance Document.

5. Legal Division

- Provided legal assistance as needed to TCEQ staff regarding AIP activities.

Quarterly Expenditures for each Program For Reporting Period

1. Remediation Division

Total budget for this fiscal year (October 1, 2002 - September 30, 2003) 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 (October through December are projected) are approximately 17,000 routine expenses and 9,000 contractor expenses. Total expenditures for the reporting period is approximately \$26,000.

2. Field Operations Division

Total budget for this fiscal year (October 1, 2002 - September 30, 2003) 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 (October through December are projected) are approximately \$32,000.

3. Monitoring Operations Division

Total budget for this fiscal year (October 1, 2002 - September 30, 2003) for air monitoring activities is \$83,000. Total estimated expenditures for this quarter (October through December are projected) are 20,750.

4. Toxicology and Risk Assessment (TARA) Section

Total budget for this fiscal year (October 1, 2002 - September 30, 2003) 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 (October through December are projected) are \$12,000.

5. Legal Division

Total budget for this fiscal year (October 1, 2002 - September 30, 2003) 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 (October through December are projected) are approximately \$100.

Milestones and Other Key Events:

1. Remediation Division

- Coordinated with other members of the Pantex Core Team to develop a conceptual site model for the Burning Grounds Waste Management Area and the Southeast (final version);
- Conducted a presentation at the AIP meeting. Presented an update to the Compliance Plan to other AIP members;
- Continued work on the Risk Reduction Rule Guidance Document in several technical meetings with the Department of Energy and Environmental Protection Agency.

2. Field Operations Division

- Coordinated quarterly groundwater sampling;
- Co-hosted the monthly Roundtable Public Meetings with Pantex;
- 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 (TARA) 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.
 - Prepared and gave presentation on the overhaul of the groundwater monitoring review process. The presentation covered the latest results and the manner in which TARA is currently handling the data; and
 - Completed a review of the Risk Reduction Rule Guidance Document and coordinated comments from all TARA staff.
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**

***1ST QUARTER
FISCAL YEAR 2003
OCTOBER – DECEMBER 2002***

TEXAS DEPARTMENT OF HEALTH
Bureau of Radiation Control
and
Bureau of Laboratories
PANTEX AIP IMPLEMENTATION REPORT
October 2002 thru December 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

- * No activity this reporting period.
- * *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 Third Quarter 2002 monitoring period.
- * Initiated review of Environmental Data Compilations for the Third Quarter of 2002.

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

- * Procured and programmed five lap top computers for BRC Field Team and Access Control Team use.
- * Conducted training on the Hot Spot dispersion modeling program in the Pantex Plant Ten-mile Emergency Planning Zone for BRC Accident Assessment Team personnel.
- * Participated in a Pantex Plant sponsored Hazards Assessment document meeting and in a City of Amarillo sponsored meeting on a proposed isotope clean-up product.
- * Participated in Agreement-in-Principle Task III Planning meeting in Amarillo.
- * Procured and replaced remaining ESP-2 Field Detection instruments with E-600 instruments. Converted two existing Fidler instruments to "smart" Fidler configuration. Calibrated "smart" Fidler instruments for Pantex use.

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

Approximate Expenses October thru December 2002:

Not available.

Texas Department of Public Safety
Division of Emergency Management

Pantex Program
Quarterly Report

First Quarter
Fiscal Year 2003

**TEXAS DEPARTMENT OF PUBLIC SAFETY
DIVISION OF EMERGENCY MANAGEMENT**
First Quarter, Fiscal Year 2003

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.

DEM's Pantex Planner participated in meeting to review and discuss the ongoing update to the Pantex Plant hazard assessment conducted on December 4th in Amarillo.

- 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)*. The DEM Response Section hopes to complete the update 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.
- DEM maintained controlled copies of Pantex emergency plans and procedures for use in the State Emergency Operations Center (EOC), but did not review and comment on these materials, as no recent updates to the materials we hold have been provided by DOE.
- D. Action Items: Design, schedule, conduct, and evaluate in periodic joint emergency response exercises and drills. Participate in such exercises and drills.
- There were no joint emergency exercises or drills conducted during the quarter, except periodic emergency notification drills.
- 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 participated in the Agreement in Principle emergency management meeting in Amarillo on October 22.
 2. DEM participated in the Agreement in Principle quarterly progress review in Amarillo on October 23.
 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.
- DEM received notification of an operational emergency at the Pantex Plant in October involving a trailer fire, but no state action was required.

- 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 67 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 20 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*.
- 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.
 - a) The City of Amarillo/Potter County/Randall County has a current and complete emergency management plan.
 - b) DEM received and reviewed revisions to the *Armstrong County Emergency Management Plan* during the quarter. The County has a current and complete *Plan*.
 - c) DEM received and reviewed updated annexes to the *Carson County Emergency Management Plan* during the quarter. The County has a current and complete *Plan*.
- 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 distributed the *2003 Pantex Area Emergency Preparedness Calendar* during December. Bulk stock was shipped to the Pantex Plant, Armstrong County, and Carson County for further distribution. DEM mailed copies to Amarillo/Potter County recipients using address labels supplied by Amarillo. Copies of the calendar were also provided to AIP program participants in Amarillo and Austin.
- 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 courses in Radiological Emergency Management and Hazardous Materials.
 2. DEM's Pantex Planner participated in two meetings of the Carson County Local Emergency Planning Committee.
 3. DEM's Pantex Planner also participated in the National Weather Service Storm Ready program as a member of the local advisory board.
 4. DEM's Pantex Planner participated in meetings of the Carson Co. Local Emergency Planning Committee (LEPC) and the Amarillo/Potter/Randall LPEC.
 5. Two DEM staff members participated in local outreach training conducted by the US Nuclear Regulatory Commission (NRC) in Arlington, Texas, in October.
 6. Two DEM staff members participated in the Regional Radiological Emergency Preparedness Workshop conducted by FEMA Region VI and NRC Region IV in Eureka Springs, Arkansas, in November.

III *Significant Changes from Intended Activities:*

None

IV. *Significant Issues:*

None

V. *Projected Expenses:*

FY 03 Budget	\$ 174,065.00
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VI. *Estimated FY 03 Expenses to Date:*

Expenditures	\$ 42,278.00
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**AMARILLO/POTTER/RANDALL
DEPARTMENT OF EMERGENCY MANAGEMENT**

CITY OF AMARILLO/POTTER COUNTY

**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT
1st QUARTER, FISCAL YEAR 2003**

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. Continued work on the remodel of the BRC Staging Area. New equipment was installed for the warning system. Met with DOE Emergency Management Oversight and Analysis Team. Attended REACTs Training and Exercise with VA ERTF. Responded to the EOC following a fire at the Pantex Plant.

Amarillo/Potter/Randall Department of Emergency Management
AIP Quarterly Report
1st Quarter, Fiscal Year 2003

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. Contingent upon receipt of document and the granting of clearance/access, 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.
- 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. Briefed Denise Brooks on the remodel of the BRC Staging Area and also the Reception Center changes.
 3. Completed the installation of a new projector at BRC Staging Area.
 4. Parking lot at BRC Staging Area seal coated by Street Dept.
- 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. Installed new radio equipment in Potter, Carson, and Armstrong County Siren Systems.
 4. Carson County SS1000 encoder repaired by Federal Signal and re-installed.
- C. Action Item: Contingent upon receipt of document and the granting of clearance/access, 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.
- Attended Pantex Hazard Assessment Brief on December 4th.
- 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.
- Met multiple times with DOE Emergency Management Oversight and Analysis Team to discuss follow-up actions on off-site notification & warning.
- 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.
- Participated in Pantex emergency notification drills.
- 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 at the Ambassador Hotel.
 2. Attended AIP Quarterly Meeting in the Kritser Room at the Airport.
 3. Met with Pantex Emergency Management to train them in the use of the Communicator Emergency Notification System.
 4. Met with Pantex Emergency Management on EPZ issues.
- G. Action Item: Review current information to assess the effect of the maximum credible accident.
- Fire at Pantex (Zone 10) - EOC liaisons and communicators reported to the EOC.
- H. Action Item: Participate in periodic notification exercises and communications drills.

1. Participated in Pantex emergency notification drills.
2. Attended DOE/REACTs training at Amarillo College.
3. Attended walk-thru training at Veterans Administration Hospital Emergency Radiation Treatment Facility.
4. Attended DOE/REACTs Exercise and review at Veterans Administration Hospital Emergency Radiation Treatment Facility.

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

Purchased Prep Guides from Salvation Army to be distributed during emergency preparedness presentations to the public. These have information which includes evacuation and shelter-in-place instructions.

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

Supplies kept at the Reception Center were inventoried.

III. Other Emergency Management Activities:

- A. On going work and training on the MMRS. Deliverable #3 was completed.
- B. Full response to 2 major structure fires, 2 weather watches, 3 minor hazmat calls, and 1 airport alert.
- C. Hosted the NLD Table Top exercise on chemical weapons

IV Projected Expenses:

FY03 Budget	\$	48,492.00
First Quarter Expenses	\$	6,652.39
Total Funds Available	\$	41,839.61

V. Approximate Actual FY03 Expenses to Date:

Expended	\$	0.00
Encumbered	\$	0.00

ARMSTRONG COUNTY

AGREEMENT IN PRINCIPLE QUARTERLY REPORT

***1ST QUARTER
FISCAL YEAR 2003
OCTOBER 2002 – DECEMBER 2002***

**ARMSTRONG COUNTY
QUARTERLY AIP REPORT
For the Period**

October 1, 2002 through December 31, 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 has completed the update of 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 has scheduled to attend G610 School in Austin in March, 2003.
- 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 periodic alert/notification exercise and communications drill with Pantex, other AIP members and liaisons.
- G. Action Item: Develop public information materials and programs.
 - 1. Distributed emergency information calendars community-wide.
 - 2. Published Halloween safety tip newspaper article in local newspaper.
- 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

III. Significant Changes from Intended Activities

None

IV. Significant Issues

None

V. Projected Expenses

\$13,360.00

VI. Approximate Actual FY03 Expenses to Date

\$1930.09

CARSON COUNTY

AGREEMENT IN PRINCIPLE QUARTERLY REPORT

***1ST QUARTER
FISCAL YEAR 2003
OCTOBER 2002 – DECEMBER 2002***

Carson County Quarterly AIP Report 1st 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. Updating annexes returned by the State which were considered deficient. 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 4 emergency management classes and 2 FEMA internet classes 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

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Pantex AIP Program

Quarterly Report

First Quarter, FY2003

October through December 2002

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 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. All the equipment and data loggers at the Pantex Plant were destroyed by lightning. We are calibrating heat dissipation sensors to install at the Pantex Plant to continue monitoring of infiltration at this site.

The paper on numerical modeling of upward flow in an interplaya setting was completed and returned to Water Resources Research for publication. We are conducting simulations of water movement in vegetated and nonvegetated lysimeters based on data from the Nevada Test Site to evaluate the impact of vegetation on subsurface flow. These data will be valuable for assessing the performance of evapotranspirative covers at the Pantex Plant. We have completed simulations using the UNSATH code and are now doing simulations with the HYDRUS-1D code.

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

Jeff Paine, Robert Reedy, and Bridget Scanlon attended the Pantex AIP meeting in Austin. Jeff Paine presented the proposed airborne geophysics study to evaluate the subsurface distribution of the fine-grained zone.

OFFICE OF THE ATTORNEY GENERAL

STATE OF TEXAS

PANTEX PROGRAM

QUARTERLY REPORT

FIRST QUARTER, FISCAL YEAR 2003

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 First Quarter 2003 Agreement in Principle (AIP) meeting (October 23, 2002, Amarillo, Texas).
- B. Attended Scoping Meeting on Modern Pit Facility, October 8, 2002, 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 03 Budget	\$ 15,000.00
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VI. *Approximate FY 03 Expenses to Date:*

A. Expended	\$ 2,500.00
B. Encumbered (Travel)	\$ 500.00