
AGREEMENT IN PRINCIPLE

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



QUARTERLY REPORT

2ND QUARTER

FISCAL YEAR 2002

JANUARY 1, 2002 - MARCH 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

2nd Quarter Fiscal Year 2002
January 1 through March 31

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

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

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

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

**AGREEMENT IN PRINCIPLE
BUDGETS AND EXPENDITURES
for the period
October 1, 2001 through March 31, 2002**

AGENCY	FFY02 BUDGET	ACTUAL & PROJECTED EXPENDITURES		FFY02 BALANCE
		Defense Programs	Environmental Management	
State Energy Conservation Office	\$ 183,898.00	\$72,044.40 ^a p		\$ 111,853.60
Texas Natural Resource Conservation Commission	\$ 487,000.00		\$164,798.19 ^a p	\$ 322,201.81
Texas Department of Health	\$ 299,215.00	\$96,634.80 ^a p		\$ 202,580.20
Texas Department of Public Safety	\$ 170,465.00	\$68,493.10 ^a		\$ 101,971.90
City of Amarillo	\$ 48,492.00	\$19,645.00 ^a p		\$ 28,847.00
Armstrong County	\$ 12,360.00	\$4,109.80 ^a		\$ 8,250.20
Carson County	\$ 14,420.00	\$4,565.87 ^a p		\$ 9,854.13
Bureau of Economic Geology	\$ 92,700.00	\$23,497.61 ^a		\$ 69,202.39
Office of the Attorney General	\$ 15,000.00	\$ 7,500.00 ^p		\$ 7,500.00
TOTAL	\$ 1,323,550.00	\$ 296,490.58	\$ 164,798.19	\$ 862,261.23
BUDGET BY DOE PROGRAM*		\$ 836,550.00	\$ 487,000.00	
FUNDS AVAILABLE BY DOE PROGRAM		\$ 540,059.42	\$ 322,201.81	

a = actual expenditures reimbursed to date p = grant recipient's projected expenditures through 3/31/02

** NOTE: The Defense Programs budget includes \$725,000 in new funding and \$111,550 in carryover for a total of \$836,550. The Environmental Management budget includes \$428,000 in new funding and \$59,000 in carryover for a total of \$487,000.*

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RESOURCE CONSERVATION
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CARSON COUNTY

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TEXAS AT AUSTIN**

**OFFICE OF THE
ATTORNEY GENERAL**

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

***2ND QUARTER
FISCAL YEAR 2002
JANUARY 2002 - MARCH 2002***

Agreement-in-Principle Quarterly Report

Texas Natural Resource Conservation Commission

January - March 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 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 for differences with Pantex data from same well / area;

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- Coordinate and participate in public meetings to discuss state oversight, provide updated groundwater monitoring reports, and respond to public concerns;
 - Co-monitor Pantex's groundwater for volatile organic compounds, semi-volatile organic compounds, heavy metals, high explosives, and general water chemistry analytes, as necessary; and,
 - Perform an independent comparison 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;

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- 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 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

- Participated in one public meeting (i.e., Round Table Discussions) regarding the environmental restoration activities at DOE-Pantex during the reporting period;
- Participated in one (1) meeting with the National Resource Damage Assessment trustees and Serious Texans Against Nuclear Dumping (STAND) regarding ecological assessment of Pantex;
- Participated in two (2) Agreement-In-Principle quarterly meetings held in Amarillo and Austin during the reporting period. At the meeting, a presentation on the Core Team concept was provided to the AIP members;
- Participated in eleven (11) technical meetings and several teleconferences with DOE during the reporting period. The primary focus of the meetings/teleconferences were the Base Line Risk Assessment, the Ecological Assessment, general investigation approach, accelerated initiatives. The meetings/conferences are part of the expedited review process developed by DOE;
- Participated in two (2) visualization meeting held on February 20, 2002 and March 4, 2002 to expedite the review of critical decision-making documents requested by DOE. The expedited review allows DOE to develop a Scope of Work for their RCRA Facility Investigations. The two visualizations during this reporting period were for the Burning Grounds and Fire Training Area;
- Attended and participated in three (3) "Pantex Core Team" meetings held during the reporting period. The meetings were held on January 8th & 9th; February 6th & 7th and March 5th & 6th. The Core Team meetings support the Pantex project by expediting the RFI process;
- Participated in teleconferences held periodically to discuss the status of the Environmental Restoration Projects; and
- Reviewed and submitted comments to DOE for nine (9) documents / correspondence during the reporting period. The review was expedited as per the request of Pantex.

2. Field Operations Division

- Conducted scheduled quarterly groundwater sampling of specified groundwater monitoring wells. The sampling took place between January 22 - February 20,

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2002;

- Coordinated with TNRCC Laboratory in Houston to analyze for volatile organic analysis from groundwater samples collected during the reporting period sampling event;
- Coordinated with Texas Department of Health to analyze for perchlorate from groundwater samples collected during the reporting period sampling event;
- Attended two (2) quarterly Agreement-In-Principle meetings held during the reporting period;
- Co-hosted, with the DOE, two public meetings at the Square House Museum in Panhandle;
- Attended several Pantex technical meetings held in Amarillo regarding the new Pantex Air Permit, Burning Ground Visualization and the Pantex Ecological Risk Assessment;
- Attended three (3) Core Team meetings and participated as technical support to the Corrective Action Section of the TNRCC.

3. Monitoring Operations Division

- Six sets of PM10 and five sets of volatile organic compound samples were collected and analyzed from the two TNRCC monitoring sites at Pantex during this quarter;
- Additionally two 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 14 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/mononsp/dailysummary>;

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- The first quarter 2002 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 document were submitted for review for potential air quality impacts.

4. Toxicology and Risk Assessment (TARA) Section

A. TARA Human Health Risk Assessors

- Performed toxicological evaluation of the groundwater monitoring data collected by TNRCC from the DOE-Pantex facility (2nd quarter 2001 data);
- Participated in Pantex public meeting with citizens on February 4, 2002, to introduce the TARA AIP team member (Mike Aplin) and answer citizen's concerns;
- Performed a health effects review of air monitoring data from the DOE-Pantex facility from a toxicological perspective (3rd and 4th quarter 2001 data);
- Participated in the Agreement-in-Principle meeting in Austin on January 16, 2002; and in the TNRCC internal AIP meeting in Austin on February 21, 2002;
- Participated in site visit / inspection of the Pantex facility with EPA on February 5, 2002, to evaluate the ecological status of the site.

B. TARA Ecological Risk Assessors

- Participated in public meeting on February 4, 2002 to address citizen questions regarding risk, etc;
- Attended meeting to discuss ecological risk issues with EPA at Pantex facility and participated in tour of the site on February 5, 2002; and,
- Provided comments on meeting minutes, and technical support for the Pantex project.

C. TARA Chemists

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- Performed quality assurance/quality control review of TNRCC collected groundwater data (2nd quarter 2001) and prepared a data usability memorandum for this data;
- Provided technical assistance to TNRCC/Pantex for data quality control; and,
- Provided technical assistance to TNRCC/Pantex staff in technical meetings.

D. TARA Hydro-geologist

- Replaced the TNRCC's contractor as the TNRCC representative on the Groundwater Modeling Technical Advisory Group (TAG) for the Pantex Plant. Met with BWXT staff to review geology, hydro-geology and groundwater modeling strategy in the TAG recommendations; and,
- Reviewed the 2001 Final Recommendations from TAG for future groundwater modeling efforts.

5. Legal Division

- Provided legal assistance as needed to TNRCC staff regarding AIP activities;
- Attended the Quarterly AIP Meeting in Amarillo; and,
- Attended two Accelerated Approach meetings between DOE, EPA and TNRCC held in Austin.

Quarterly Expenditures for each Program For Reporting Period

1. Remediation Division

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for the Remediation Division activities is \$184,651. Scheduled budgeted expenditures for the quarter (1/4 of the budgeted amount) are \$46,163. Total estimated expenditures for this quarter (January through March are projected) are \$29,289.

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2. Field Operations Division

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for the Field Operations Division activities is \$175,562. Scheduled budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$43,890. Total estimated expenditures for this quarter (January through March are projected) are \$32,030.

3. Monitoring Operations Division

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for air monitoring activities is \$110,987. However, \$27,746 budgeted for the purchase of the VOC samplers was never put into Monitoring Operations Division Operating budget. So, the actual budget is \$83,000. Total estimated expenditures for this quarter (January through March are projected) are \$14,817.

4. Toxicology and Risk Assessment (TARA) Section

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for toxicological activities is \$13,800. Budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$3,450. Total estimated expenditures for this quarter (January through March are projected) are \$7,600.

5. Legal Division

Total budget for this fiscal year (October 1, 2001 - September 30, 2002) for the Legal Division activities is \$2,000. Scheduled budgeted expenditures for the quarter (1/4 of the total budgeted amount) are \$500. Total estimated expenditures for this quarter (January through March are projected) are \$450.

Milestones and Other Key Events:

1. Remediation Division

- Coordinated as a member of the Pantex Core Team to develop a conceptual site model for the Burning Grounds Waste Management Area;
- Coordinated as a member of the Pantex Core Team to develop a conceptual site model for the Zone 11 and 12 areas (draft versions);

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- Coordinated as a member of the Pantex Core Team to develop a Burning Ground Closure Strategy (final draft version);
- Participated in a public meeting (Round Table Meeting) to discuss the status of corrective action at Pantex and the expedited process established by the Core Team;
- Conducted a presentation at the AIP meeting. Presented the Core Team concept to the members;
- Continued work on the primary decision-making documents (Base Line Risk Assessment procedures) in several technical meetings with DOE;
- Participated in two major “Visualization Meetings” for the Burning Grounds Waste Management Area and the Fire Training Area; and,
- Participated in the proposed DOE “Accelerated Approach” to evaluate the current process and find a path-forward to expedite cleanup of Pantex from 2013 to 2008.

2. Field Operations Division

- Coordinated quarterly groundwater sampling;
- Coordinated Roundtable discussions for Public Participation; and,
- Reviewed quarterly compilations of Pantex groundwater data.

3. Monitoring Operations Division

- Analyzed air samples for volatile organic compounds (VOCs) and particulate matter.

4. Toxicology and Risk Assessment Section

- Participated in finalizing the burning grounds closure strategy with the core team and in developing a conceptual model for Zones 11 and 12;
- Completed the most recent air and groundwater monitoring health effects reviews, including the QA/QC review of the groundwater data; and,
- Completed a review of the final technical assistance group recommendations for future groundwater modeling efforts.

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5. Legal Division

- Reviewed contracts, regulations, and documents and provided legal recommendations, as necessary.
- Attended and participated in the two (2) Accelerated Approach meetings held in March between DOE, EPA and TNRCC.

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

Robert Musick,
TNRCC Pantex Project Coordinator

Date

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

**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT**

***2ND QUARTER
FISCAL YEAR 2002
JANUARY 2002 - MARCH 2002***

TEXAS DEPARTMENT OF HEALTH

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

PANTEX AIP IMPLEMENTATION REPORT

January 2002 thru March 2002

SUMMARY

Scope of Work/Objectives

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

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

CONTAMINANT INVENTORY AND ASSESSMENT

Scope of Work/Objectives

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

Accomplishments

- * Completed review of the Third 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 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 water, one sediment and five soil samples.
- * Exchanged thermoluminescent dosimeters on pre-arranged schedule. Provided documentation of results for the Fourth Quarter 2001 monitoring period.
- * Completed review of Environmental Data Compilations for the Second Quarter 2001.
- * Completed review of the 2002 Environmental Monitoring Plan for Pantex Plant.

Significant Issue/Change from Intended Activity:

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 one Pantex Plant Emergency Preparedness Plan Procedure, according to the prearranged schedule.
- * Completed installation of Base Station Radio at the BRC Staging Facility in Amarillo.
- * Completed formal application for Federal Communications Commission license for the radio repeater which was relocated from Pantex Plant to the Carson County radio tower.
- * Completed review of the Pantex Plant Emergency Hazard Assessment for 2001, delivered January 10, 2002.
- * Participated in Local Emergency Preparedness Planning Committee meeting.

FY 01 Expenses this Quarter: Not available at time of report.

NEPA IMPLEMENTATION

Scope of Work/Objectives

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

Accomplishments

* Participated in Pantex Environmental Remediation Core Team meeting activities.

FY 01 Expenses this Quarter: Not available at time of report.

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

*Approximate Expenses October thru December2001:
Not available.*

Texas Department of Public Safety

Division of Emergency Management

Pantex Program

Quarterly Report

Second Quarter, Fiscal Year 2002

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

Second Quarter, Fiscal Year 2002

I. *Scope of Work/Objectives:*

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

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

- K. Review and provide comments on local government emergency plans developed to prepare for a radiological or hazardous material incident at the Pantex Plant.
- L. Assist local governments in developing emergency public information materials and programs.
- M. Provide guidance relating to radiological aspects of public information materials and programs.
- N. Develop procedures for and maintain the Reception Center located at the Tri-State Fairgrounds.

II. *Task III Accomplishments:*

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

No activity this quarter.

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

- 1. DEM began work on an update to the *State Emergency Operations Center (EOC) Standard Operating Procedures (SOP)* in March. At the end of the quarter, a draft of the SOP had been disseminated for review. The updated SOP should be completed during April.

- 2. Subsidiary SOPs to the State EOC SOP, including the *DEM SOP for Pantex Plant Emergencies*, will be updated during the second and third quarter of the calendar year.

- 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 did not review any Pantex Plant Emergency Preparedness Procedures during the second quarter.

- D. Action Items: Design, schedule, conduct, and evaluate in periodic joint emergency response exercises and drills. Participate in such exercises and drills.
1. During the quarter, DEM personnel participated in exercise planning meetings with DOE, the Pantex Plant staff, and local governments for the next joint emergency exercise. The initial planning meeting for that exercise, EMEX 02-1, was conducted on January 24, 2002.
 2. DEM's Pantex Planner also participated in a second EMEX 02-1 planning meeting on March 14, 2002.
- E. Action Item: Meet periodically with the DOE and Pantex Plant emergency management staff to review/resolve emergency management issues and coordinate emergency management activities.
1. DEM personnel participated in the Agreement in Principle quarterly meeting in Austin on January 16.
 2. DEM's Pantex Planner participated in a local Agreement in Principle meeting on February 21.
 3. 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. DPS Disaster District 5B in Amarillo participated in periodic alert/notification drills and communications tests with the Pantex Plant.
- H. Action Item: In the event of an incident at Pantex potentially affecting the off-site population, assist local authorities with their emergency response in the manner outlined in state and local emergency management plans.

No state action was required during the quarter.

- I. Action Item: In coordination with DOE, coordinate Pantex-related training for potentially affected state and local response organizations.

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

- J. Action Item: Assist local governments in updating emergency plans and procedures and provide multi-jurisdictional integration of such plans.
1. DEM personnel were involved in 26 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 17 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 update of:
 - a) Annex C, Shelter & Mass Care
 - b) Annex F, Firefighting

- 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.

3. The Region 5 RLO and DEM Plans Unit received and reviewed the following revised Carson County planning documents during the quarter and provided comments where appropriate:

- a) Annex M, Resource Management
- b) Annex P, Recovery
- c) Annex Q, Hazardous Materials
- d) Annex R, Search & Rescue
- e) Annex S, Transportation
- f) Annex T, Donations Management
- g) Annex V, Terrorist Incident Response

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

- 1. DEM contracted for publication of a Pantex area emergency preparedness advertisement for the inside front cover of the 2002 Amarillo area telephone directory. Telephone books with the emergency preparedness advertisement were distributed during February.

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:

None

II. *Significant Changes from Intended Activities:*

None.

III. *Significant Issues:*

DEM's Pantex Planner, Scott Bonner, left his position on March 15, 2002. The vacancy has been posted by the DPS Human Resource Bureau; the job posting will close on April 8. We hope to have a new planner hired and at work by the end of April.

IV. *Projected Expenses:*

FY 02 Budget	\$ 174,065.00
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V. *Estimated FY 02 Expenses to Date:*

FY 02 Funds Committed	\$ 68,493.10
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Note: Expenses to date have been considerably less than expected due to turnover and resulting vacancies in DEM positions funded by the Pantex Program grant. We have also not yet been billed for the Pantex emergency preparedness advertisement published in the 2002 Amarillo telephone directory.

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

CITY OF AMARILLO/POTTER COUNTY

**AGREEMENT IN PRINCIPLE
QUARTERLY REPORT
2nd QUARTER, FISCAL YEAR 2002**

Activity Summary

Inspected, repaired and maintained equipment in accordance with agreements. Conducted daily, weekly and monthly warning system tests and maintenance. Attended AIP related meetings and training programs. Participated in Pantex emergency notification coordination, testing and drills. Completed annual inventory. Received new monitoring equipment for EOC use. Completed installation of security gate. Held training on back-up communications system for Pantex communicators and off-site personnel.

Amarillo/Potter/Randall Department of Emergency Management
AIP Quarterly Report
2nd Quarter, Fiscal Year 2002

I. Scope of Work/Objectives:

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

II. Accomplishments

- A. Action Item: Repair, maintain, upkeep, conduct preventive maintenance, and test all equipment provided by DOE, purchased under AIP, or provided by the City of Amarillo used for Pantex operations. This includes: all EPZ indoor warning monitors in Potter County. Warning equipment installed in the EOC; Command and Control equipment (to include computer equipment) installed in the EOC, response vehicles, reception center, and BRC staging area; various pieces of radio communications equipment; and radiological (not maintained by BRC) and decontamination equipment under the control of Amarillo or Potter County.
1. Maintained and tested warning system and AIP equipment.
 2. Procedures were implemented for the use of an electric gate at BRC staging area.
 3. Completed annual inventory with Pantex on Personal Property Loan Agreement.
 4. Gary Froemsdorf went over procedures to use Eberline Smartprobes and delivered same to the EOC.
 5. Trained AIP participants, DOE and Pantex personnel on the use of backup communications system (Packet). Delivered and installed the new equipment and software to Armstrong County, Carson County, and Amarillo DPS.
- 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. Made repairs to Highland Park School siren due to reports siren was sounding/falsing.
- C. Action Item: Review and provide comments on updated hazard assessments conducted by the Pantex plant, as appropriate. Proposed protective action recommendations will be reviewed and comments provided to DOE.

No activity during this quarter.

- D. Action Item: Review and comment, as appropriate, on Pantex emergency plans and procedures related to radiological or hazardous materials incidents, maintain current copies of such plans and procedures.
1. Worked with Pantex plant on new notification form and email procedures.
 2. Evaluated use of forms in conjunction with notification exercises
- E. Action Item: In coordination with Pantex officials, design, schedule, conduct and evaluate periodic joint emergency exercises and drills. Participate in such exercises and drills to the extent possible.
1. Participated in Pantex emergency notification drills.
 2. Attended exercise planning team meetings for EMEX02-1. Provided support as needed for the planning process.
- 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. Hosted Local AIP Meeting at City Hall.
 2. Attended AIP Quarterly Meeting in Austin.
- G. Action Item: Review current information to assess the effect of the maximum credible accident.
- No activity during this quarter.
- H. Action Item: Participate in periodic notification exercises and communications drills.
1. Participated in Pantex emergency notification drills.
- I. Action Item: Develop public information materials and programs.
- No activity during this quarter.
- J. Action Item: Develop procedures and maintain the Reception Center located at the Tri-State Fair Grounds.
- No activity during this quarter.

III. Other Emergency Management Activities:

IV Projected Expenses:

FY02 Budget	\$	48,492.00
First Quarter Expenses	\$	9,430.80
Second Quarter Expenses	\$	10,214.20
Total Funds Available	\$	28,847.00

V. Approximate Actual FY02 Expenses to Date:

Expended	\$	19,645.00
Encumbered	\$	0.00

ARMSTRONG COUNTY

AGREEMENT IN PRINCIPLE QUARTERLY REPORT

***2ND QUARTER
FISCAL YEAR 2002
JANUARY 2002 - MARCH 2002***

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

January 1, 2002 through March 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 is currently working on updating all emergency plans and procedures related to radiological or hazardous materials incidents.
 2. The Emergency Management Coordinator updated the Armstrong County Basic Plan and is currently working on updating Annex A.
- 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.
- 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 two periodic alert/notification exercises and communications drills with Pantex, other AIP members and liaisons.
- G. Action Item: Develop public information materials and programs.
1. Published a winter weather preparedness article in the local newspaper during cold weather in January.

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

None

III. *Significant Changes from Intended Activities*

None

IV. *Significant Issues*

None

V. *Projected Expenses*

\$12,360.00

VI. *Approximate Actual FY01 Expenses to Date*

\$348.03

CARSON COUNTY

AGREEMENT IN PRINCIPLE QUARTERLY REPORT

***2ND QUARTER
FISCAL YEAR 2002
JANUARY 2002 - MARCH 2002***

Carson County
Quarterly AIP Report
2nd Quarter 2002
Jan - March

- 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. Finished updating Carson County emergency management plan and all of the annexes. Plan has been submitted to State and currently receiving comments back. Will make necessary changes and resubmit.
- 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.(These have been picked up by BWXT personnel as of November 7, 2001)
 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 EMC attended several exercise planning meetings for Pantex exercise.
- 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 attends monthly LEPC meetings
 2. Carson County EMC attended EM workshop in Austin.

3. Judge Powers and Commissioners attended Panhandle Judge and Commissioners conference in Amarillo with program presented on EM by DPS/DEM Regional Liaison Officer.
 4. Carson County EMC attended PACKET radio training – City of Amarillo.
- 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 EMC attended quarterly AIP in Austin – January.
 3. Carson County EMC attended several Pantex plant exercise meetings to prepare for upcoming exercise.



BUREAU OF ECONOMIC GEOLOGY

THE UNIVERSITY OF TEXAS AT AUSTIN

*University Station, Box X • Austin, Texas 78713-8924 • (512) 471-1534 • FAX (512) 471-0140
10100 Burnet Road, Bldg. 130 • Austin, Texas 78758-4497*

Pantex AIP Program

Quarterly Report

Second quarter, FY 2002

January through March 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 First Quarter

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

Monitoring at the Pantex Plant and adjacent to Playa 5 is ongoing.

Cores collected during installation of heat dissipation sensors in November 2001 were analyzed for water content and chloride concentrations. The results show high chloride concentrations at shallow depths, suggesting low rates of water movement.

We have conducted simulations to evaluate upward flow at depth as suggested by water potential data. The code HYDRUS-1D was used for the simulations. If water has been moving upward for a long time, then the only process for moving chloride to depth is diffusion from high concentrations near the surface to depth. The simulations were conducted to determine how long it would take to develop the upward water potential gradients and if diffusion could account for the chloride movement. The preliminary results suggest that the measured water potential and chloride profiles can be reproduced by upward water movement and downward chloride diffusion. The data indicate that it would take approximately 2,000 yr to develop the upward water potential gradients. These results from Pantex are being compared to simulations of water potential and chloride data from the Chihuahuan Desert in west Texas and from the Amargosa Desert in Nevada.

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

Bridget Scanlon attended the April 17 quarterly Pantex AIP project review meeting in Amarillo. Alan Dutton met with Randy Charbeneau to review the material he presented at a public meeting in Amarillo.

OFFICE OF THE ATTORNEY GENERAL

OFFICE OF THE ATTORNEY GENERAL

STATE OF TEXAS

PANTEX PROGRAM

QUARTERLY REPORT

SECOND QUARTER, FISCAL YEAR 2002

OFFICE OF THE ATTORNEY GENERAL

I. Scope of Work/Objectives:

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

II. Accomplishments:

A. Participated in Second Quarter 2002 Agreement in Principle (AIP) meeting (January 16, 2002, Austin, Texas).

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

III. Significant Changes from Intended Activities:

None.

IV. *Significant Issues:*

None.

V. *Projected Expenses:*

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

A. Expended	\$ 6,000.00
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B. Encumbered (Travel)	\$ 1,000.00
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