The background of the page features a large, faint watermark of the seal of the Texas State Office of Defense. The seal is circular and contains the text "THE STATE OF TEXAS" around the perimeter. In the center, there is a five-pointed star surrounded by a laurel wreath. The text "OFFICE OF DEFENSE" is also visible within the seal's design.

**AGREEMENT IN PRINCIPLE
PANTEX FACILITY GRANT
No. DE-FG04-90AL65780**

**SCOPE OF WORK
&
COST ESTIMATES
FISCAL YEAR 2005**

- **Fiscal Year 2005 Budget**
- **Fiscal Year 2001 -
Fiscal Year 2005
Budget**
- **Fiscal Year 2005
Scope of Work**
- **Appendix A
Specific Project Objectives**
- **Agreement in Principle
Fiscal Year 2005 Proposals**

**STATE OF TEXAS
 AGREEMENT IN PRINCIPLE
 ESTIMATED COSTS
 FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

**FISCAL YEAR
2001 - 2005
BUDGET**

**STATE OF TEXAS
AGREEMENT IN PRINCIPLE
FIVE YEAR SPENDING PLAN**

	<u>Fiscal Year 2001</u>	<u>Fiscal Year 2002</u>	<u>Fiscal Year 2003</u>	<u>Fiscal Year 2004</u>	<u>Fiscal Year 2005</u>
Texas Department of Health, Bureau of Radiation Control	290,500	299,215	299,215	308,191	317,437
Texas Commission on Environmental Quality	500,000	487,000	487,000	500,000	500,000
Texas Department of Public Safety, Division of Emergency Management	165,500	170,465	170,465	179,613	185,001
City of Amarillo	47,080	48,492	48,492	49,947	51,445
Armstrong County	12,000	12,360	12,360	12,731	13,113
Carson County	14,000	14,420	14,420	40,853	15,299
State Energy Conservation Office, Pantex Program	150,920	183,898	183,898	189,415	195,097
Office of the Attorney General	15,000	15,000	15,000	15,000	15,000
Bureau of Economic Geology	90,000	92,700	92,700	92,700	95,481
TOTAL	1,285,000	1,323,550	1,323,550	1,388,450	1,387,873

**FISCAL YEAR 2005
SCOPE OF WORK**

AGREEMENT IN PRINCIPLE
SCOPE OF WORK FOR STATE OF TEXAS
FISCAL YEAR 2005

Generic

The State Energy Conservation Office, all cognizant state agencies, and local political subdivisions within the designated Pantex Emergency Planning Zone will participate in quarterly status meetings with the Department of Energy; prepare a scope of work and cost estimate for activities to be conducted in Fiscal Year 2005; prepare quarterly reports; participate in public meetings to discuss state oversight activities at the Pantex Plant; propose modifications to the Agreement in Principle as appropriate; provide, as appropriate, reports and brochures for public education on Pantex; provide technical assistance to interested citizens; participate in environmental compliance or emergency management meetings relating to the Pantex programs; and participate in tours, meetings, and symposia.

State Energy Conservation Office

The State Energy Conservation Office will provide overall project integration services for the State of Texas. Specific activities will include:

1. Management of sub-grants to State Agencies and local governments.
2. Preparation and distribution of all required reports.
3. Coordination of meetings with the Department of Energy and its contractors.

Bureau of Radiation Control

The Bureau of Radiation Control of the Texas Department of Health will participate in a variety of activities under Tasks I-III of the grant. Specific activities will include:

Task I: Chemical and Radiological Contaminant Inventory and Assessment

1. Assist the Texas Commission on Environmental Quality (TCEQ) in reviewing inventories of any new significant radiological and chemical toxic emission sources from the Plant, such as stacks, vents, ponds, and waste sites.
2. Assist the TCEQ in reviewing inventories of all hazardous, regulated waste (chemical, radiological and mixed) identified onsite.

3. Assist the TCEQ in reviewing updates of the plant waste and residue characterization plan.
4. Assist the TCEQ in reviewing updates of the facility-wide waste minimization plans.

Task II: Environmental Monitoring

5. Assist the TCEQ in reviewing the current surface water monitoring system plans, and updates, as appropriate.
6. Review reports characterizing the background radioactivity in soil and water in and around the site, and updates, as appropriate.
7. Assist the TCEQ in reviewing the current groundwater monitoring system plans, including the sampling of any public drinking water supplies for review, and updates, as appropriate.
8. Review current radioactivity surveillance system plans and updates, as appropriate.
9. Assist the TCEQ in reviewing current air monitoring system plans and updates, as appropriate.
10. Review quarterly compilations of environmental data.
11. Sample any public drinking water systems in the vicinity of the Plant. For any systems that are determined to be potentially affected by plant operations, the State, in cooperation with local governments, will develop a program for increased frequency of system sampling and analysis. Analyses will include chemicals and radionuclides.
12. Collect and analyze soil, water, vegetation, crops, and other appropriate environmental media from the plant environs for selected radionuclides and/or chemicals. Samples will be analyzed on a priority basis and results provided in an annual report to the DOE. Any samples that exceed regulatory limits will be reported to the DOE within 24 hours of analysis.
13. Monitor the site boundary with dosimeters to determine ambient gamma radiation levels.
14. Perform chemical and radiological analyses of air samples.

15. Review and provide recommendations on updates of dispersion modeling of air emissions, as appropriate.
16. Review environmental monitoring and modeling results for potential public health impacts.
17. Provide the results of all air monitoring efforts to DOE on a quarterly/annual basis, as appropriate. Upon completion of the DOE review, results will be disseminated to the Pantex DOE Public Reading Rooms.
18. Prepare environmental monitoring and analysis plans and updates as appropriate, for the monitoring and analysis of chemical and radiological materials, which may be present in the environment in and around the Plant. Provide DOE with the opportunity to review and comment on such plans prior to publication.
19. Allow the DOE to take split samples, whenever possible, in all routine environmental monitoring activities.

Task III: Emergency Management

20. 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.
21. Update appropriate state-level plans, annexes, and procedures pertaining to a radiological and/or hazardous material incident at the Pantex Plant. Prior to completion of the updating process, comments will be solicited from Pantex officials.
22. Review and comment, as appropriate, on Pantex emergency plans and procedures related to radiological or hazardous materials incidents.
23. 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.
24. Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
25. Review current information to assess the effect of the maximum credible accident.

26. In the event of an incident at Pantex potentially affecting the offsite population, assist the local authorities to the extent and in the manner identified in respective state and local emergency management plans.
27. In conjunction with DOE, coordinate radiological training for potentially affected state and local response organizations.
28. Assist local governments in updating plans and procedures, and provide multijurisdictional integration of such plans and procedures related to Pantex operational emergencies.
29. Review and provide comments regarding local emergency plans developed to prepare for a radiological and/or hazardous material incident at the Pantex Plant.
30. Assist local governments in developing public information materials and programs.
31. Provide guidance relating to radiological aspects of public information materials and programs. Review and comment as requested.
32. Assist local governments in developing procedures and maintaining the Reception Center located at the Tri-State Fair Grounds.
33. Provide review comments on Pantex documents (Environmental Assessments and Environmental Impact Statements) within published timeframes.
34. Provide representatives, as appropriate, to attend Pantex public meetings.
35. Coordinate with the DOE to provide Q-cleared State personnel with need-to-know information and escorted access to Pantex facilities on an “as needed” basis, as agreed upon by both parties.

Texas Commission on Environmental Quality

The Texas Commission on Environmental Quality will participate in activities under Tasks I-III of the grant. Specific activities will include:

Task I: Chemical and Radiological Contaminant Inventory and Assessment

1. Review inventories of any new significant radiological and chemical toxic emission sources from the Plant, such as stacks, vents, ponds, and waste sites.

2. Review inventories of all hazardous, regulated waste (chemical, radiological and mixed) identified onsite.
3. Review updates of the plant waste and residue characterization plan.
4. Review updates of the facility-wide waste minimization plans.

Task II: Environmental Monitoring

5. Review the current surface water monitoring system plans, and updates, as appropriate.
6. Review the current groundwater monitoring system plans, including the sampling of any public drinking water supplies for review, and updates, as appropriate.
7. Review current air monitoring system plans and updates, as appropriate.
8. Review reports and/or plans on the biomonitoring of surface water discharges, if required.
9. Review quarterly compilations of environmental data.
10. Expedite review of Pantex Environmental Restoration workplans, reports, and data compilations. Within 90 working days of transmittal to the State, the TCEQ will provide written comments to DOE.
11. Sample any public drinking water systems in the vicinity of the Plant. For any systems that are determined to be potentially affected by plant operations, the State, in cooperation with local governments, will develop a program for increased frequency of system sampling and analysis. Analyses will include chemicals and radionuclides.
12. Collect and analyze soil, water, vegetation, crops, and other appropriate environmental media from the plant environs for selected radionuclides and/or chemicals. Samples will be analyzed on a priority basis and results provided in an annual report to the DOE. Any samples that exceed regulatory limits will be reported to the DOE within 24 hours of analysis.
13. Maintain air monitoring systems for VOCs, particulate matter and particulate radionuclides, and provide enhancements as appropriate.
14. Perform chemical and radiological analyses of air samples.

15. Review and provide recommendations on updates of dispersion modeling of air emissions, as appropriate.
16. Review and provide recommendations on groundwater modeling results, and updates, as appropriate.
17. Review environmental monitoring and modeling results for potential public health impacts.
18. Provide the results of all air monitoring efforts to DOE on a quarterly/annual basis, as appropriate. Upon completion of the DOE review, results will be disseminated to the Pantex DOE Public Reading Rooms.
19. Prepare environmental monitoring and analysis plans and updates as appropriate, for the monitoring and analysis of chemical and radiological materials, which may be present in the environment in and around the Plant. Provide DOE with the opportunity to review and comment on such plans prior to publication.
20. Allow the DOE to take split samples, whenever possible, in all routine environmental monitoring activities.

Task III: Emergency Management

21. In the event of an incident at Pantex potentially affecting the offsite population, assist the local authorities to the extent and in the manner identified in respective state and local emergency management plans.
22. Provide review comments on Pantex documents (Environmental Assessments and Environmental Impact Statements) within published timeframes.
23. Provide representatives, as appropriate, to attend Pantex public meetings.
24. Coordinate with the DOE to provide Q-cleared State personnel with need-to-know information and escorted access to Pantex facilities on an “as needed” basis, as agreed upon by both parties.

Division of Emergency Management

The Division of Emergency Management of the Texas Department of Public Safety will participate in activities under Task III of the grant. Specific activities will include:

Task III: Emergency Management

1. 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.
2. Update appropriate state-level plans, annexes, and procedures pertaining to a radiological and/or hazardous material incident at the Pantex Plant. Prior to completion of the updating process, comments will be solicited from Pantex officials.
3. 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.
4. 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.
5. Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
6. Review current information to assess the effect of the maximum credible accident.
7. Participate in periodic notification exercises and communications drills.
8. In the event of an incident at Pantex potentially affecting the offsite population, assist the local authorities to the extent and in the manner identified in respective state and local emergency management plans.
9. In coordination with DOE and other state and local AIP participants, develop and present Pantex-related emergency preparedness training for local governments, other state agencies, volunteer groups, industry and the general public.
10. Assist local governments in updating plans and procedures, and provide multi-jurisdictional integration of such plans and procedures related to Pantex operational emergencies.
11. Review and provide comments regarding local emergency plans developed to prepare for a radiological and/or hazardous material incident at the Pantex Plant.

12. Assist local governments in developing public information materials and programs.
13. Assist the local governments in developing procedures and maintaining the Reception Center located at the Tri-State Fair Grounds.
14. Provide review comments on Pantex documents (Environmental Assessments and Environmental Impact Statements) within the published timeframes.
15. Provide representatives, as appropriate, to attend Pantex public meetings.

Bureau of Economic Geology

The Bureau of Economic Geology will participate in activities under Task II of the grant. Specific activities will include:

Task II: Environmental Monitoring

1. Review and provide recommendations on groundwater modeling results, and update, as appropriate.
2. Provide review comments on Pantex documents (Environmental Assessments and Environmental Impact Statements) within published timeframes.
3. Provide representatives, as appropriate, to attend Pantex public meetings.

Office of the Attorney General

The Office of the Attorney General will provide advice, representation, analysis, and reports on issues relating to the Pantex Plant. Specific activities will include:

1. Provide review comments on Pantex documents (Environmental Assessments and Environmental Impact Statements) within published timeframes.
2. Provide representatives, as appropriate, to attend Pantex public meetings.

Other Agencies and Parties

In addition to the State Energy Conservation Office and State agencies, other parties will conduct activities through sub-grants from the State Energy Conservation Office. These entities include Carson County, Armstrong County and the City of Amarillo.

Activities of Carson County, Armstrong County and the City of Amarillo will focus on Task III of the grant. Specific activities will include:

Task III: Emergency Management

1. 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.
2. 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.
3. 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.
4. Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
5. Review current information to assess the effect of the maximum credible accident.
6. Participate in periodic notification exercises and communications drills.
7. Develop public information materials and programs.
8. Develop procedures and maintain the Reception Center located at the Tri-State Fair Grounds.
9. Provide review comments on Pantex documents (Environmental Assessments and Environmental Impact Statements) within published timeframes.
10. Provide representatives, as appropriate, to attend Pantex public meetings.

APPENDIX A
SPECIFIC PROJECT OBJECTIVES

Article III – Specific Project Objectives

This Article sets out the specific tasks to be performed under this Grant. These tasks are grouped into three general categories:

Task One	Chemical and radiological contaminant inventory and assessment
Task Two	Environmental monitoring
Task Three	Emergency management

The SECO, all cognizant State agencies, and local political subdivisions within the designated Pantex Emergency Planning Zone will participate in quarterly status meetings with the DOE, prepare a scope of work and cost estimate for activities to be conducted in FYs 2002 through 2005, prepare quarterly reports, propose modifications to the AIP as appropriate, and participate in tours, meetings, and symposia.

The SECO will provide overall project integration for the State. Specific activities will include:

1. Management of sub-grants to state agencies and local governments
2. Preparations of all required reports
3. Coordination of meetings with the DOE and its contractors

The cognizant State agencies, acting through the SECO, will:

1. Participate in quarterly status meetings organized by the SECO and the DOE
2. Provide quarterly status reports
3. Participate in public meetings to discuss state activities at the Pantex Plant
4. Provide, as appropriate, reports and brochures for public education on Pantex
5. Provide technical assistance to the Pantex Plant Citizens' Advisory Board

In addition to the SECO and cognizant State agencies, other parties will conduct activities through sub-grants from the SECO. These entities include local political subdivisions within the designated Pantex Emergency Planning Zone.

Each Specific work objective is discussed more thoroughly in the sections below, detailing Tasks One through Three of this Agreement.

TASK ONE: CHEMICAL AND RADIOLOGICAL ASSESSMENT

The cognizant State agencies, acting through the SECO, will:

1. Provide qualified personnel for Q-clearances to conduct independent verification of chemical and radiological inventory
2. Validate and review industrial contaminants and inventories

TASK TWO: ENVIRONMENTAL MONITORING

The cognizant State agencies, acting through the SECO, will:

1. Review the environmental monitoring data.
2. Review the current groundwater monitoring system plans, including the sampling of any public drinking water supplies for review and updates, as appropriate.
3. Review current radioactivity surveillance system plans and updates, as appropriate.
4. Review current air monitoring system plans and updates, as appropriate.
5. Review reports and/or plans on the biomonitoring of surface water discharges, if required.
6. Review quarterly compilations of environmental data and conduct independent verification of compliance data.
7. Sample any public drinking water systems in the vicinity of the Plant. For any systems that are determined to be potentially affected by Plant operations, the State, in cooperation with local governments, will develop a program for increased frequency of system sampling and analysis. Analyses will include chemicals and radionuclides.
8. Collect and analyze soil, water, vegetation, crops, and other appropriate environmental media from the Plant environs for selected radionuclides and/or chemicals. Samples will be analyzed on a priority basis and results provided in an annual report to the DOE. Any samples that exceed regulatory limits will be reported to the DOE within 24 hours of analysis.
9. Monitor the site boundary with dosimeters to determine ambient gamma radiation levels.
10. Maintain air monitoring systems for Volatile Organic Compounds, particulate matter and particulate radionuclides, and provide enhancements, as appropriate.
11. Perform chemical and radiological analyses of air samples.
12. Review and provide recommendations on updates of dispersion modeling of air emissions, as appropriate.

13. Review and provide recommendations on groundwater modeling results, and updates, as appropriate.
14. Review environmental monitoring and modeling results for potential public health impacts.
15. Provide the results of all air monitoring efforts to DOE on a quarterly/annual basis, as appropriate. Upon completion of the DOE review, results will be disseminated to the Pantex DOE Public Reading Rooms.
16. Prepare environmental monitoring and analysis plans and updates as appropriate, for the monitoring and analysis of chemical and radiological materials, which may be present in the environment in and around the Plant. Provide DOE with the opportunity to review and comment on such plans prior publication.
17. Allow the DOE to take split samples, whenever possible, in all routine environmental monitoring activities.

TASK THREE: EMERGENCY MANAGEMENT

In accordance with the Texas Disaster Act of 1975, and consistent with the Executive Order of the Governor Relating to Emergency Management, local governments, the SECO, and cognizant State agencies have specific responsibilities for emergency planning and response. Joint emergency planning under the Agreement and associated Grant should be consistent with the Texas Disaster Act and the Executive Order of the Governor and should meet State of Texas Division of Emergency Management (DEM) and Federal Emergency Management Agency (FEMA) planning standards and criteria.

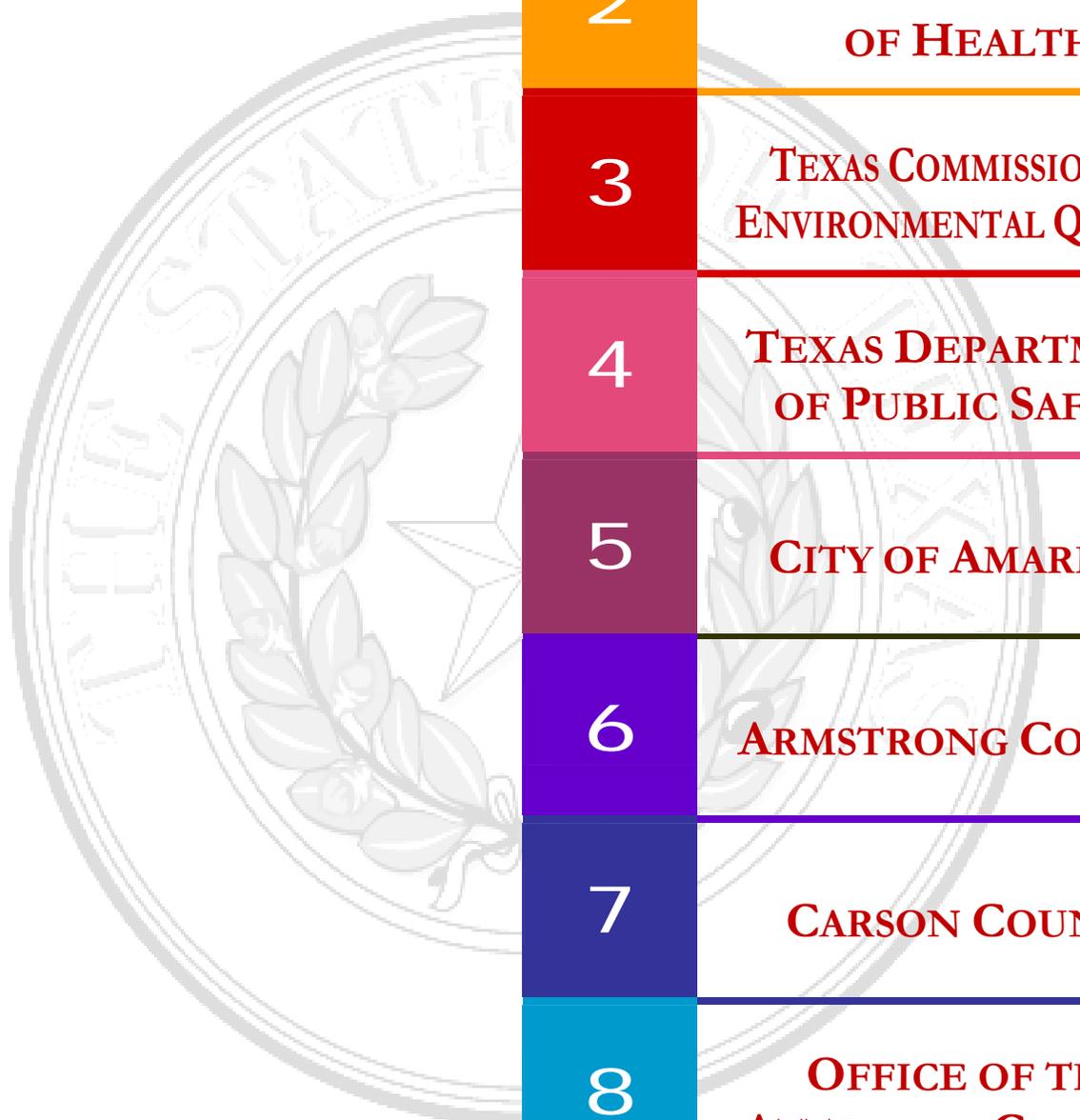
The cognizant State agencies, and local political subdivisions, acting through the SECO, will:

1. 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.
2. Update appropriate state-level plans, annexes, and procedures pertaining to a radiological and/or hazardous material incident at the Pantex Plant. Prior to completion of the updating process, comments will be solicited from Pantex
3. 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.

4. 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.
5. Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
6. Review current information to assess the effect of the maximum credible accident.
7. Participate in periodic notification exercises and communications drills.
8. In the event of an incident at Pantex potentially affecting the offsite population, assist the local authorities to the extent and in the manner identified in respective state and local emergency management plans.
9. In conjunction with DOE, coordinate radiological training for potentially affected state and local response organizations.
10. Assist local government in updating plans and procedures, and provide multi- jurisdictional integration of such plans and procedures related to Pantex operational emergencies.
11. Review and provide comments regarding local emergency plans develop to prepare for a radiological and/or hazardous material incident at the Pantex Plant.
12. Assist local governments in developing public information materials and programs.
13. Provide guidance relating to radiological aspects of public information materials and programs. Review and comment as requested.
14. Develop procedures and maintain the Reception Center located at the Tri-State Fair Grounds.

**AGREEMENT IN PRINCIPLE
FISCAL YEAR 2005
PROPOSALS**

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1	STATE ENERGY CONSERVATION OFFICE
2	TEXAS DEPARTMENT OF HEALTH
3	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
4	TEXAS DEPARTMENT OF PUBLIC SAFETY
5	CITY OF AMARILLO
6	ARMSTRONG COUNTY
7	CARSON COUNTY
8	OFFICE OF THE ATTORNEY GENERAL
9	THE UNIVERSITY OF TEXAS AT AUSTIN



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Proposed
Fiscal Year 2005
Scope of Work
and
Budget for the
*State Energy Conservation Office***

**STATE OF TEXAS
 AGREEMENT IN PRINCIPLE
 ESTIMATED COSTS
 FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

STATE ENERGY CONSERVATION OFFICE

SCOPE OF WORK

FISCAL YEAR 2005

The State Energy Conservation Office will continue its work of coordinating the activities of the various state agencies and local governments under the Agreement in Principle. The State Energy Conservation Office will also continue to serve as the liaison between the agencies and the U.S. Department of Energy, and as a central source of information for members of the public interested in environmental conditions and emergency preparedness at Pantex.

The State Energy Conservation Office will work with DOE in keeping the agencies current with their tasks and milestones, as described in the responsibility matrix that is part of the management plan for this project. The State Energy Conservation Office will also help prepare comments on the various DOE environmental impact statements, recommendations, proposals, and remediation strategies. In addition, the State Energy Conservation Office will continue to perform its accounting functions for the agencies under the grant to enable them to be reimbursed for their appropriate expenses.

The following is a cost estimate for the activities just described in the amount of \$195,097.

STATE ENERGY CONSERVATION OFFICE

COST ESTIMATE

FISCAL YEAR 2005

SALARIES

Director	11 man-months	\$65,381
Program Administrator	9 man-months	\$42,508
Administrative Assistant	11 man-months	\$32,241

TOTAL SALARIES **\$140,130**

BENEFITS (@ 22% of salaries) **\$30,828**

TRAVEL

Amarillo

Three Quarterly Meetings, two days each,
two people attending \$3,831

Four trips, two days each, two people \$5,108

Washington, D.C.

Two trips, two days each, two people \$2,800

TOTAL TRAVEL **\$11,739**

EQUIPMENT **\$5,000**

SUPPLIES & SERVICES **\$7,400**

TOTAL ESTIMATE **\$195,097**



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Proposed
Fiscal Year 2005
Scope of Work
and
Budget for the
*Bureau of Radiation Control
Texas Department of Health***

**STATE OF TEXAS
 AGREEMENT IN PRINCIPLE
 ESTIMATED COSTS
 FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office t		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

Pantex Agreement-in-Principle

Texas Department of Health

FFY 2005 Scope of Work

The following is the proposed scope of work and cost estimate for work and services to be delivered by the Texas Department of Health, Bureau of Radiation Control (BRC) and Bureau of Laboratories for the period from October 1, 2004 through September 31, 2005. This is separated by task in Appendix A, State of Texas Specific Project Objectives of the Agreement-in-principle (AIP).

TASK ONE. Contaminant Inventory and Assessment

Contaminant Inventory and Assessment activities will require approximately 0.2 FTE of the Special Project Coordinator.

1. Upon receipt, review the radiological/mixed waste inventory storage documentation and records of shipment for off-site disposal. Receipt of documents plus 45 days. (350 hrs)
2. Provide assistance to Texas Commission on Environmental Quality (TCEQ) in validating and reviewing facility-wide radiological and mixed industrial waste inventories. (50 hrs)

TASK TWO. Environmental Monitoring

Environmental Monitoring activities for the year will require one full-time Radiochemist, and approximately 0.8 FTE of the Special Project Coordinator.

1. Review environmental data. Receipt of documentation plus 60 days. (40 hrs)
2. Assist TCEQ in reviewing groundwater monitoring system plans and updates. Receipt of program documentation plus 60 days. (60 hrs)
3. Review radioactivity surveillance system plans and updates. Receipt of program documentation plus 60 days. (120 hrs)
4. Assist TCEQ in reviewing air monitoring system plans and updates. Receipt of documents plus 60 days. (20 hrs)
5. Review quarterly compilations of environmental data. Receipt of reports plus 60 days. (450 hrs)
6. Sample drinking water supplies potentially affected by the plant, to include Matheson well field, Lake Meredith surface water impoundment and the City of Panhandle Pecan Avenue well. (200 hrs)
7. Collect water, crop, soil, and playa samples on a quarterly basis and perform radiological analysis. (1,290 hrs)
8. Monitor site boundary with thermoluminescent dosimeters. (280 hrs)
9. Perform radiological analysis of air sample filters provided by TCEQ. Receipt of filter media plus 60 days. (600 hrs)

10. Assist TCEQ in reviewing air emissions dispersion modeling updates, as required. (20 hrs)
11. Review environmental monitoring and modeling results for potential public health impacts. Receipt of documentation plus 60 days. (180 hrs)
12. Update environmental monitoring and analysis plan as necessary. Submit update of plan for review. (240 hrs)
13. Allow the Department of Energy (DOE) the opportunity to take split samples of environmental media. (20 hrs)
14. Participate in AIP public meetings, and respond to Pantex Plant neighboring public concerns about Pantex, as necessary. (80 hrs)

TASK THREE. Emergency Preparedness

Emergency preparedness activities for the year will require full time involvement of one FTE Pantex Emergency Planner.

1. Review and provide comments on the revised Radiological Hazard Assessment, as necessary. (200 hrs)
2. Update Pantex Plant plans, annexes and procedures relating to radiological events based on the results of full-participation exercises. Solicit comments from state agencies and local governments, as necessary. (200 hrs)
3. Maintain current updated copies of Pantex Plant, state and local plans related to a radiological material incident. Provide comments and suggestions for improvements. (150 hrs)
4. Participate in joint periodic response exercises and drills with the Pantex Plant. BRC participation will be governed by availability of funding and level of participation requested. Participation will be determined by exercise objectives and scenario. (200 hrs)
5. Participate in periodic notification exercises and communications drills to assure timely and accurate provision of emergency information. (40 hrs)
6. Continue to train members of the Bureau of Radiation Control Emergency Response Teams in Pantex response procedures. (160 hrs)
7. In conjunction with Department of Energy and Pantex Plant, coordinate in radiological training for access control teams, reception center operations, and for other affected response team personnel, as appropriate. (160 hrs)
8. Review and provide comments regarding local jurisdiction radiological emergency response plans, as requested. (100 hrs)
9. Provide guidance relating to radiological aspects of public information materials and programs. Participate in development of the Joint Information Center, as requested. (130 hrs)
10. Calibrate and maintain pre-positioned radiation monitoring and detecting equipment dedicated to a Pantex-related response. Assist local authorities to the extent and in the manner identified in respective state and local emergency management plans in the event of an incident at Pantex potentially affecting the offsite population, as necessary. (640 hrs)
11. Participate in public meetings to discuss State emergency planning activities and to respond to public concerns about Pantex, as necessary. (20 hrs)

TEXAS DEPARTMENT OF HEALTH

FFY 2005 Budget Estimate

Bureau of Radiation Control:

Salaries (with Benefit Replacement Pay)	114,749.00
Employee Benefits (28.46%)	32,658.00
Travel and Per Diem	28,979.00
Supplies and services	39,279.00
Equipment	15,500.00
Total Direct Costs	231,165.00
Indirect Costs (10.5%)	24,272.00
Bureau of Radiation Control Subtotal	255,437.00

Bureau of Laboratories:

Analytical and Services Billings (Includes Direct and Indirect Costs)	62,000.00
Bureau of Laboratories Subtotal	62,000.00

Total new funds requested for Texas Department of Health FFY 2005 expenses:

Bureau of Radiation Control	255,437.00
Bureau of Laboratories	62,000.00
Texas Department of Health Total	317,437.00



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Proposed
Fiscal Year 2005
Scope of Work
and
Budget for the
*Texas Commission on
Environmental Quality***

**STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

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PANTEX WEAPONS FACILITY SUBGRANT PROGRAM

DEPARTMENT OF ENERGY through the STATE ENERGY CONSERVATION OFFICE FY 2005

SUMMARY

The Pantex Subgrant Program is a five-year agreement between the Department of Energy (DOE) and the Comptroller of Public Accounts' State Energy Conservation Office. It is also a joint venture between several state agencies and local governments who have regulatory authority to monitor the Pantex Nuclear Weapons Facility located near Amarillo, Texas. These agencies include the following: Texas Department of Health; Texas Commission On Environmental Quality (TCEQ); Comptroller of Public Accounts; University of Texas-Bureau of Economic Geology; the City of Amarillo; and Carson County.

The objectives of this Subgrant are to implement an environmental oversight program at the Pantex facility to provide for an independent evaluation of site environmental monitoring data; to coordinate environmental cleanup schedules to expedite environmental restoration and achieve the regulatory requirements; to enhance joint federal, state and local emergency preparedness capability; to provide a mechanism for involvement of the State of Texas in the Department of Energy remediation and clean up of the Pantex facility; and to provide, in coordination with DOE, a public outreach program to allow the citizens of Texas to be involved in the ongoing activities which may affect human health and the environment.

The TCEQ and its predecessor agencies has conducted wastewater and industrial solid waste inspections at the Pantex facility since the late 70's. The wastewater treatment system operates in accordance with the requirements specified in permit(s) issued by the TCEQ. Non-radiological hazardous and solid waste activities are regulated by an industrial and hazardous waste permit initially issued by the TCEQ in 1991, amended in February, 1996, and renewed on October 21, 2003. Mixed wastes (hazardous plus radioactive) are managed by Pantex in accordance with an Agreed Order and Federal Compliance Plan issued in October, 1995, and revised in October, 1996.

In recent years, the Pantex facility has minimized the generation of wastewater and industrial solid waste due primarily to TCEQ monitoring and oversight funded by this grant. Pantex also has initiated source reduction and interim stabilization measures at many of their solid waste management units to reduce the risk to human health and the environment.

For FY 2005, the TCEQ's Region 1 Office in Amarillo, Texas will continue to regulate the Pantex facility through oversight inspections and periodically co-sample with Pantex environmental media for the purpose of protecting the citizens adjacent the Pantex facility. The TCEQ's Remediation Division will provide continued oversight of Pantex's environmental restoration program.

WORK PROGRAM ORGANIZATIONAL STRUCTURE

The project tasks are divided between the following Offices/Divisions of the TCEQ: Remediation Division, Field Operations Division, Monitoring Operations Division, Office of Chief Engineer, and Environmental Law.

FEDERAL FUNDING

The total cost of the FY 2005 workplan is **\$500,000**. This amount is 100% pass-through Federal funds from the Comptroller of Public Accounts' State Energy Conservation Office and requires no State match funding.

DIVISION FUNDING

The requested funding of the Office/Divisions participating in the Pantex Subgrant is as follows:

<u>DIVISION/SECTION</u>	<u>\$ AMOUNT</u>	<u>% OF TOTAL</u>
Remediation	267,353	53.47
Field Operations	89,671	17.93
Monitoring Operations	63,663	12.73
Chief Engineers Office	75,969	15.19
Environmental Law	3,344	.69
TOTAL	\$500,000	100.00%

PROJECT SCHEDULE

The TCEQ will conduct this project over a twelve (12) month period beginning October 1, 2004, and ending September 30, 2005.

DELIVERABLES

The Remediation Division will:

- Provide comments, if requested, on environmental restoration initiatives submitted by the Department of Energy;
- Provide written comments on Pantex's environmental restoration final reports and data compilations including background studies, RFI's, ecological risk assessments (ERAs), CMS, CMI's and SWMU closures as part of an expedited approach;
- Evaluate the soil and groundwater monitoring data submitted as part of the environmental investigations and the Interim Stabilization Measures (ISMs) Program

of the Compliance Plan to determine if ISMs are necessary to protect human health and the environment;

- Participate, as resources and management allow, in AIP funded meetings, public meetings, technical meetings/discussions, Core Team meetings, and Focus Team meetings;
- Provide regulatory guidance in technical meetings as part of the Expedited Review Process;
- Review and comment, if requested, on meeting minutes and summaries developed by Pantex for all environmental related technical meetings in which the Remediation Division is a participant;
- Provide regulatory guidance if requested by Pantex and as resources allow, on Pantex's environmental restoration interim reports, scopes of work, and work plans; and
- Submit to Pantex and the State Energy Conservation Office (AIP Grant Manager) an Agreement in Principle (AIP) Quarterly Report outlining the accomplishments, and milestones achieved for each fiscal year quarter (e.g., Oct-Dec).

The Field Operations Division will:

- Collect and evaluate groundwater samples, as resources and management allow, to determine water quality;
- Collect air samples (particulate and volatile organic compound), as resources and management allow, to determine air quality;
- Notify appropriate TCEQ staff (e.g., Air Monitoring; Remediation, TARA) and Pantex about exceedances of action levels associated with TCEQ Region collected environmental data;
- Review and sign SWMU interference notifications and provide appropriate follow-up oversight;
- Attend, participate and present information on state environmental activities in public meetings as requested; and
- Prepare reports and memos to DOE/Pantex and TCEQ staff, as appropriate, on monitoring oversight activities (e.g., Pantex sampling procedure evaluation during sampling events) conducted during periodic sampling events.

The Air Monitoring Operations Division will:

- Review and evaluate DOE monitoring and emissions data;
- Prepare summaries, as resources allow, of air monitoring data and provide copies to the DOE and the State Energy Conservation Office at quarterly meetings;
- Submit results of air sampling data collected from previous year in an annual report to DOE and the State Energy Conservation Office by the last day of June; and

- Review, as resources and management allow, environmental assessments, environmental impact statements, and other documents submitted by DOE for air quality impact and provide comments within 90 days of receipt of the documents.

The Chief Engineer's Office will:

- Submit memoranda to the Monitoring Operations Division, evaluating annual air monitoring results and summary statistics;
- Submit to the Monitoring Operations Division or the TCEQ regional office for distribution, any memoranda evaluating additional information or environmental data collected in relation to the Pantex facility;
- Submit reports to the TCEQ regional office, as necessary, on critical groundwater monitoring results and summary statistics;
- As resources and management allow, accompany agency staff to public meetings to assist in answering questions relating to human health and the environment at the Pantex facility; and
- Submit memoranda to the Remediation Division on human health risk assessments and related documents as necessary.

The Environmental Law Division will:

- Review contracts, rules, regulations, and documents for legal sufficiency and make necessary recommendations;
- Accompany agency staff to public and technical meetings as resources allow to assist in providing legal and procedural counsel relating to the Pantex facility;
- Act as a liaison between TCEQ AIP members and other Office of Legal Services staff regarding permitting and enforcement;
- Provide necessary legal advice regarding TCEQ AIP staff questions and concerns; and
- Represent TCEQ AIP staff in any negotiations, mediation, or other possible contested matters.

REMEDIATION DIVISION

FY 2005 PANTEX WEAPONS FACILITY SUBGRANT

PROGRAM ELEMENT 1: MONITORING AND COMPLIANCE

Under this program element, the **Remediation Division** will conduct agency oversight of all environmental restoration activities required under a RCRA permit/compliance plan/order, or any other agency directives including RCRA Facility Investigations, Ecological Risk Assessments (ERAs), Area of Concern Investigations, Interim Stabilization Measures and Solid Waste Management Unit (SWMU) remediation and closure activities, and any agreement based on the Federal Facility Compliance Act Site Treatment Plan. This element provides the basis for ensuring that all solid, hazardous, radiological, and mixed wastes at Pantex are managed in accordance with State of Texas and federal solid waste regulations including applicable RCRA permit or order requirements. Integration with CERCLA remedial activities is also associated with this element.

OBJECTIVE: To provide regulatory oversight on Pantex's environmental restoration activities during FY 2005 at a cost not to exceed \$267,353..

- Task 1:** Provide administrative oversight to ensure that source abatement measures, stabilization measures, cleanup, and restoration of environmental media at Pantex are achieved in accordance with the State of Texas rules and guidance;
- Task 2:** Participate, as resources allow, in DOE, Texas Commission On Environmental Quality (TCEQ), Environmental Protection Agency (EPA) and Agreement-In-Principle (AIP) sponsored meetings/discussions regarding ERA and environmental restoration activities at Pantex;
- Task 3:** Identify and communicate State of Texas solid waste requirements to Pantex, in order that cleanup objectives and priorities are developed in accordance with appropriate and relevant site cleanup standards;
- Task 4:** Review, evaluate, and provide written comments on Pantex's environmental restoration final reports and data compilations including background studies, RFI's, ERAs, CMS, CMI, SWMU closures and other required and related reports;
- Task 5:** Coordinate with TCEQ staff and other state and federal agencies (e.g., EPA, TBEG, TDH, Texas A&M University), as appropriate, to fulfill ongoing project objectives;
- Task 6:** Compile for the TCEQ an Agreement in Principle (AIP) Quarterly Report; and submit to the Comptroller of Public Accounts' State Energy Conservation Office;
- Task 7:** If regulatory oversight is requested by Pantex and resources allow, the TCEQ will evaluate and comment on draft documents, reports and work plans; and
- Task 8:** Negotiate environmental restoration agreements based on rules and policies of the State of Texas.

Deliverables:

- Provide comments, if requested, on environmental restoration initiatives submitted by the Department of Energy;
- Provide written comments on Pantex's environmental restoration final reports and data compilations including background studies, RFI's, ERAs, CMS, CMI's and SWMU closures as part of an expedited approach;
- Evaluate the soil and groundwater monitoring data submitted as part of the environmental investigations and the Interim Stabilization Measures (ISMs) Program of the Compliance Plan to determine if ISMs are necessary to protect human health and the environment;
- Participate, as resources and management allow, in AIP funded meetings, public meetings, technical meetings/discussions, Core Team meetings, and Focus Team meetings;
- Provide regulatory guidance in technical meetings as part of the Expedited Review Process;
- Review and comment, if requested, on meeting minutes and summaries developed by Pantex for all environmental related technical meetings in which the Remediation Division is a participant;
- Provide regulatory guidance if requested by Pantex and as resources allow, on Pantex's environmental restoration interim reports, scopes of work, and work plans; and
- Submit to Pantex and the State Energy Conservation Office (AIP Grant Manager) an Agreement in Principle (AIP) Quarterly Report outlining the accomplishments, and milestones achieved for each fiscal year quarter (e.g., Oct-Dec).

FIELD OPERATIONS DIVISION

FY 2005 PANTEX WEAPONS FACILITY SUBGRANT

PROGRAM ELEMENT: MONITORING AND COMPLIANCE

Under this program element, the **Field Operations Division (FOD)** plans to conduct an environmental monitoring program and to provide independent evaluations of environmental monitoring data. Listed are the FY 2005 work tasks involving the Region 1 office in Amarillo.

OBJECTIVE: To evaluate and monitor the implementation of corrective action plans and instances of contamination in or adjacent to waters in the State at a cost not to exceed \$89,671.

- Task 1:** Review and evaluate, as resources allow, hazardous, solid waste, and wastewater activities;
- Task 2:** Collect groundwater samples equal to or greater than 10% of DOE sampling as resources allow. As time and resources allow surface water, soils, and biological parameters may be collected from Pantex;
- Task 3:** Collect groundwater samples, as resources allow, from public drinking water systems and private wells adjacent to the Pantex Plant to determine water quality;
- Task 4:** Collect air samples (particulate and selected volatile organic samples), as resources allow, from selected monitoring sites associated with Pantex. Operate air samplers for organic and inorganic analysis, on-site and adjacent to the Pantex plant boundary;
- Task 5:** Evaluate and maintain environmental data (i.e., soil, air, groundwater) collected by TCEQ Region 1 staff for exceedances of health based or regulatory levels of indicator parameter and/or constituents of concern associated with Pantex industrial activities;
- Task 6:** Monitor, review, and provide oversight of the Pantex Plant's environmental protection and restoration activities to include soil and groundwater monitoring and remediation programs;
- Task 7:** Monitor progress of tasks dealing with Environmental Restoration and Environmental Protection Programs;
- Task 8:** Conduct on-site monitoring and oversight of proposed closure activities or disturbance of Solid Waste Management Units (SWMU);
- Task 9:** Provide administrative oversight for TCEQ Region activities for the AIP grant project. This includes attending AIP meetings as necessary;
- Task 10:** Act as designated Project Manager for mixed waste management oversight at Pantex in accordance with the October 1995 Agreed Order and federal Compliance Plan;
- Task 11:** Attend and provide technical assistance at public meetings held regarding Pantex;

and,

Task 12: Provide, as appropriate, reports, brochures, TCEQ sample results, information, for public education of environmental issues at Pantex.

Deliverables:

- Collect and evaluate groundwater samples, as resources allow, to determine water quality;
- Collect air samples (particulate and volatile organic compound), as resources allow, to determine air quality;
- Notify appropriate TCEQ staff (e.g., Air Monitoring; Remediation, Chief Engineer) and Pantex about exceedances of action levels associated with TCEQ Region collected environmental data;
- Review and sign SWMU interference notifications and provide appropriate follow-up oversight;
- Attend, participate and present information on state environmental activities in public meetings as requested; and
- Prepare reports and memos to DOE/Pantex and TCEQ appropriate staff on monitoring oversight activities (e.g., Pantex sampling procedure evaluation during sampling events) conducted during periodic sampling events.

MONITORING OPERATIONS DIVISION

FY2005 PANTEX WEAPONS FACILITY SUBGRANT

PROGRAM ELEMENT 1: MONITORING AND COMPLIANCE

The **Monitoring Operations Division**, Office of Compliance and Enforcement, will conduct ambient air quality monitoring and independent evaluation of environmental monitoring and emissions data from Pantex Nuclear Weapons facility in Amarillo, Texas to ensure protection of human health, safety, and the environment. In order to accomplish this task, Monitoring Operations Division proposes to provide six major activities in accordance with the Agreement in Principle.

These activities include; 1) overall technical and administrative coordination for the Monitoring Operations Division, 2) operation of ambient air monitoring sites at Pantex to collect up to 60 samples total per year, including ten quality assurance samples, based on events that merit equipment operation and a continuous air monitor outside Pantex property, 3) assurance that all ambient air quality data collected are accurate and of high quality, 4) logistical support as needed for the maintenance and repair of the monitoring equipment, 5) quarterly and annual reports of the air monitoring data with discussion of potential public health impacts to be provided to the DOE and the State Energy Conservation Office, and 6) review of environmental impact documents and submission of comments as appropriate.

OBJECTIVE: To continue operation of an ambient air monitoring program at Pantex, including a continuous air monitor in the vicinity of Pantex, operation and maintenance of the monitoring equipment, analysis and reporting of air monitoring data, and to provide independent evaluation of environmental monitoring and emissions data from the Pantex facility during FY 2005 at a cost not to exceed \$63,663.

Task 1: Review and provide independent evaluation of monitoring and/ or emissions data provided by DOE;

Task 2: Continue sampling and analysis for respirable particulates and selected volatile organic compounds at the Pantex air monitoring stations for up to 60 samples including ten quality assurance samples and will operate a continuous total methane and non-methane hydrocarbons analyzer with the capability to trigger a canister sampler for measuring selected volatile organic compounds. The division will also collect the same number of total suspended particulate samples on high volume filters and will be forwarded to the Bureau of Radiation Control for radionuclide analysis;

Task 3: Analyze air monitoring data and prepare regular scheduled reports summarizing and interpreting the data and will be forwarded to the DOE and the State Energy Conservation Office. Concentrations of concern recorded at any of the sites will be reported to the DOE, the State Energy Conservation Office and the public in a timely manner;

Task 4: Prepare updates of environmental monitoring and analysis plans, as appropriate, for the monitoring and analysis of chemical compounds that may be present in the

environment in and around the plant. DOE will be provided opportunity to review and comment on such plans prior to publication;

Task 5: Review, as resources allow, environmental assessment, environmental impact statements, and other documents submitted for review for potential air quality impacts and comment in a timely manner;

Task 6: Participate, as necessary, in quarterly status meetings and other ad hoc meetings organized by the State Energy Conservation Office and the DOE and provide status reports of activities;

Deliverables:

- Review and evaluate DOE monitoring and emissions data;
- Prepare summaries , as resources allow, of air monitoring data and provide copies to the DOE and the State Energy Conservation Office at quarterly meetings;
- Submit results of air sampling for previous year in an annual report to DOE and the State Energy Conservation Office by the last day of June; and
- Review environmental assessments, environmental impact statements, and other documents submitted by DOE for air quality impact and provide comments within 90 days of receipt of the documents.

PROGRAM ELEMENT 2: PUBLIC OUTREACH

This program element provides for the participation in public meetings and other public outreach activities by the **Monitoring Operations Division** in order to provide information and solicit comments from the citizens of Texas regarding state environmental oversight at the Pantex facility.

OBJECTIVE: To provide technical consultation and assistance by attending public meetings and providing information to the interested citizens.

Task 2.1: Participate in the public meetings in Amarillo to discuss state environmental oversight activities at Pantex.

Deliverables:

- Interested citizens will be provided copies of annual air quality report for Pantex if requested.

CHIEF ENGINEER'S OFFICE

FY 2005 PANTEX WEAPONS FACILITY SUBGRANT

PROGRAM ELEMENT 1: MONITORING AND COMPLIANCE

Under this program element, the **Chief Engineer's Office** is responsible for reviewing the results of environmental monitoring and determining the impact of exposure to environmental contaminants resulting from operations at the DOE Pantex facility.

OBJECTIVE: To review environmental monitoring data, and human health assessments and related documents to insure that emissions/contaminants will not adversely impact public health and the environment during FY 2005 at a cost not to exceed \$75,969.

Task 1: As resources allow, evaluate annual results of TCEQ ambient air monitoring data at or near Pantex to determine the potential impact on public health and the environment. Prepare memoranda, available to the public and the regulated community, as needed, regarding this evaluation;

Task 2: As resources allow, perform a toxicological evaluation of the critical groundwater monitoring results from the DOE Pantex facility. Prepare memoranda, available to the public and regulated communities, as needed, regarding this evaluation;

Task 3: As resources allow, attend public meetings with agency staff to assist in answering questions, particularly those regarding human health effects;

Task 4: As resources allow, assist the Corrective Action Section in its review of remediation documents that involve human health risk evaluations; and

Task 5: As resources allow, participate in Pantex sponsored technical meetings.

Deliverables:

- Submit memoranda to the Monitoring Operations Division, evaluating annual air monitoring results and summary statistics;
- Submit to the Monitoring Operations Division or the TCEQ regional office for distribution, any memoranda evaluating additional information or environmental data collected in relation to the Pantex facility;
- Submit reports to the TCEQ regional office, as necessary, on critical groundwater monitoring results and summary statistics;
- As resources and management allow, accompany agency staff to public meetings to assist in answering questions relating to human health and the environment at the Pantex facility; and

Submit memoranda to the Remediation Division on human health risk assessments and related documents as necessary.

ENVIRONMENTAL LAW DIVISION

FY 2005 PANTEX WEAPONS FACILITY SUBGRANT

PROGRAM ELEMENT 1: MONITORING AND COMPLIANCE

The **Environmental Law Division** provides support to ensure that all solid, hazardous, radiological and mixed wastes identified on-site are managed in accordance with all state and federal solid waste regulations including RCRA permit requirements. In addition, this program element provides for proper agency oversight of all corrective actions required under the RCRA permit or other agency directives including RCRA Facility Investigations, Interim Remedial Actions, Closures and other response actions. This program element also provides for review and monitoring of surface and groundwater quality in the area of the Pantex facility to evaluate compliance with the Texas Surface Water Quality Standards and Chapter 26, Texas Water Code, Subchapter J which relates to groundwater.

OBJECTIVE: To provide legal review and support of any corrective actions taken by the TCEQ Remediation Division, Field Operations Division, or Monitoring Operations Division during FY 2005.

Task 1: Provide legal services in the review of all contracts, rules, regulations and documents for legal sufficiency. Included in this task are the negotiations of the Memorandum of Agreement between the Environmental Protection Agency and the TCEQ and Mixed Waste Agreements, as well as assistance with the proposed delisting of Pantex from the National Priorities List via deferral to RCRA Corrective Action.

Deliverables:

- Provide necessary legal services to review contracts, rules, regulations and legal documents relating to corrective action activities the Pantex facility;
- —
- —
- —

PROGRAM ELEMENT 2: PUBLIC OUTREACH ACTIVITIES

This program element provides for setting up public meetings and other public outreach activities by the **Environmental Law Division** to provide information and solicit questions from the citizens of Texas regarding the Pantex facility.

OBJECTIVE: To provide legal services to assist in providing information at public meetings to the citizens of Texas by attending all meetings relating to public outreach activities during FY 2005 at a cost not to exceed 3,344.

Task 1: Attend public outreach meetings with agency staff to assist in answering questions, particularly those with legal implications.

Deliverable:

- Accompany agency staff to public and technical meetings to assist in . legal and procedural relating to the Pantex facility ..

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FY 2005

GRANT: FY05 Pantex Subgrant

Total:
All Divisions

Match: Federal %
MOF: 5495,1515

100

State % 0

EXPENSE ITEM	TOTAL COSTS	Strategy # 01-01-03	Strategy # 01-01-04	Strategy # 02-01-01
		PROGRAM ELEMENT NAME		
		Waste Management & Permitting	Air Quality Assessment & Planning	Field Inspection & Complaints
Work Years:	4.35	1.60	1.75	1.00
SALARIES: (Base Salary + Release)	210,180	87,209	79,115	43,856
TRAVEL:	13,779	7,099	2,150	4,530
CAPITAL:	0	0	0	0
SUPPLIES:	15,941	5,864	8,348	1,729
CONTRACTS:	119,246	119,246	0	0
OTHER:	17,268	0	3,500	13,768
SUBTOTAL	\$376,414	\$219,418	\$93,113	\$63,883
FRINGE: 25.30%	53,176	22,064	20,016	11,096
INDIRECT: 33.50%	70,410	29,215	26,503	14,692
GRAND TOTAL	\$500,000	\$270,697	\$139,632	\$89,671

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FY 2005

GRANT: FY05 Pantex Subgrant

Match: Federal %

100

State %

0

Organization #: 510

MOF: 5495

Division: Remediation

		Strategy # 01-01-03	Strategy # 01-01-04	Strategy # 02-01-01
EXPENSE ITEM	TOTAL COSTS	PROGRAM ELEMENT NAME		
		Waste Management & Permitting	Air Quality Assessment & Planning	Field Inspection & Complaints
Work Years:	1.58	1.58	0.00	0.00
SALARIES: (Base Salary + Release)	86,142	86,142	0	0
TRAVEL:	5,449	5,449	0	0
CAPITAL:	0	0	0	0
SUPPLIES:	5,864	5,864	0	0
CONTRACTS:	119,246	119,246	0	0
OTHER:	0	0	0	0
SUBTOTAL	\$216,701	\$216,701	\$0	\$0
FRINGE: 25.30%	21,794	21,794	0	0
INDIRECT: 33.50%	28,858	28,858	0	0
GRAND TOTAL	\$267,353	\$267,353	\$0	\$0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FY 2005

GRANT: FY05 Pantex Subgrant

Match: Federal %

100

State %

0

Organization #: 4900

MOF: 5495

Division: Environmental Law

		Strategy # 01-01-03	Strategy # 01-01-04	Strategy # 02-01-01
EXPENSE ITEM	TOTAL COSTS	PROGRAM ELEMENT NAME		
		Waste Management & Permitting	Air Quality Assessment & Planning	Field Inspection & Complaints
Work Years:	0.02	0.02	0.00	0.00
SALARIES: (Base Salary + Release)	1,067	1,067	0	0
TRAVEL:	1,650	1,650	0	0
CAPITAL:	0	0	0	0
SUPPLIES:	0	0	0	0
CONTRACTS:	0	0	0	0
OTHER:	0	0	0	0
SUBTOTAL	\$2,717	\$2,717	\$0	\$0
FRINGE: 25.30%	270	270	0	0
INDIRECT: 33.50%	357	357	0	0
GRAND TOTAL	\$3,344	\$3,344	\$0	\$0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FY 2005

GRANT: FY05 Pantex Subgrant

Match: Federal %

100

State %

0

Organization #: 2310

MOF: 1515

Division: Executive Office - Chief Engineer

		Strategy # 01-01-03	Strategy # 01-01-04	Strategy # 02-01-01
EXPENSE ITEM	TOTAL COSTS	PROGRAM ELEMENT NAME		
		Waste Management & Permitting	Air Quality Assessment & Planning	Field Inspection & Complaints
Work Years:	1.00	0.00	1.00	0.00
SALARIES: (Base Salary + Release)	43,652	0	43,652	0
TRAVEL:	1,650	0	1,650	0
CAPITAL:	0	0	0	0
SUPPLIES:	1,500	0	1,500	0
CONTRACTS:	0	0	0	0
OTHER:	3,500	0	3,500	0
SUBTOTAL	\$50,302	\$0	\$50,302	\$0
FRINGE: 25.30%	11,044	0	11,044	0
INDIRECT: 33.50%	14,623	0	14,623	0
GRAND TOTAL	\$75,969	\$0	\$75,969	\$0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FY 2005

GRANT: FY05 Pantex Subgrant

Match: Federal %

100

State %

0

Organization #: 4600

MOF: 5495

Division: Monitoring Operations

		Strategy # 01-01-03	Strategy # 01-01-04	Strategy # 02-01-01
EXPENSE ITEM	TOTAL COSTS	PROGRAM ELEMENT NAME		
		Waste Management & Permitting	Air Quality Assessment & Planning	Field Inspection & Complaints
Work Years:	0.75	0	0.75	0.00
SALARIES: (Base Salary + Release)	35,463	0	35,463	0
TRAVEL:	500	0	500	0
CAPITAL:	0	0	0	0
SUPPLIES:	6,848	0	6,848	0
CONTRACTS:	0	0	0	0
OTHER:	0	0	0	0
SUBTOTAL	\$42,811	0	\$42,811	\$0
FRINGE: 25.30%	8,972	0	8,972	0
INDIRECT: 33.50%	11,880	0	11,880	0
GRAND TOTAL	\$63,663	0	\$63,663	\$0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FY 2005

GRANT: FY05 Pantex Subgrant

Match: Federal %

100

State %

0

Organization #: 4100

MOF: 5495

Division: Field Operations

EXPENSE ITEM	TOTAL COSTS	Strategy #	Strategy #	Strategy #
		01-01-03	01-01-04	02-01-01
		PROGRAM ELEMENT NAME		
		Waste Management & Permitting	Air Quality Assessment & Planning	Field Inspection & Complaints
Work Years:	1.00	0.00	0.00	1.00
SALARIES: (Base Salary + Release)	43,856	0	0	43,856
TRAVEL:	4,530	0	0	4,530
CAPITAL:	0	0	0	0
SUPPLIES:	1,729	0	0	1,729
CONTRACTS:	0	0	0	0
OTHER:	13,768	0	0	13,768
SUBTOTAL	\$63,883	\$0	\$0	\$63,883
FRINGE: 25.30%	11,096	0	0	11,096
INDIRECT: 33.50%	14,692	0	0	14,692
GRAND TOTAL	\$89,671	\$0	\$0	\$89,671

ATTACHMENT A		FY 2005 Pantex Sub-grant			
Program Element Titles	FUNDING			(4) WORK- YEARS	
	(1) FEDERAL	(2) NON-FEDERAL	(3) TOTAL		
a. Waste Management & Permitting	\$270,697	\$0	\$270,697	1.60	
b. Air Quality Assessment & Planning	\$139,632	\$0	\$139,632	1.75	
c. Field Inspections & Complaints	\$89,671	\$0	\$89,671	1.00	
Totals	\$500,000	\$0	\$500,000	4.35	

ATTACHMENT E: LIST OF ANTICIPATED EQUIPMENT PURCHASES

GRANT: FY 2005 Pantex Subgrant

—

DIVISION: All Divisions (Remediation – lead division)

Group I [Equipment ("Capital") costing \$5,000 or more per unit]:

NA

Group II [Equipment ("Supplies") costing \$1,000-\$4,999 per unit]:

NA

ATTACHMENT C: STAFFING LIST

GRANT: FY 2005 Pantex

DIVISION: All Divisions (Remediation - lead division)

TITLE OF POSITION	NO. OF POS.	ANNUAL SALARY	PERSONNEL COST	WORK YEARS
Remediation				
Geologist IV	1.00	56,694	36,851	0.65
Corrective Action Specialist VI	1.00	57,101	5,710	0.10
Manager III	1.00	60,534	3,027	0.05
Geologist V	1.00	56,881	1,138	0.02
Administrative Asst. IV	1.00	31,644	3,164	0.10
Program Specialist IV	1.00	51,695	12,924	0.25
Toxicologist II	1.00	56,792	14,198	0.25
Engineer V	1.00	56,324	5,632	0.10
Program Specialist VI	1.00	55,096	1,102	0.02
Toxicologist II	1.00	51,682	1,034	0.02
Manager III	1.00	68,115	1,362	0.02
Field Operations				
Environmental Investigator IV	1.00	43,856	43,856	1.00
Monitoring Operations				
Engineer Specialist III	1.00	47,284	35,463	0.75
Chief Engineer				
Toxicologist I	1.00	43,652	43,652	1.00
Environmental Law				
Attorney IV	1.00	53,364	1,067	0.02
TOTALS	15.00	\$ 790,714	\$ 210,180	4.35

ATTACHMENT D: OTHER

GRANT: FY 2005 Pantex

DIVISION: All Divisions (Remediation - lead division)

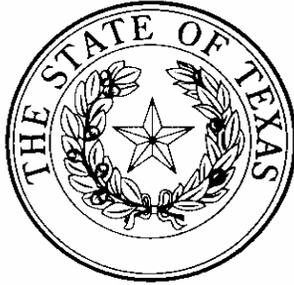
Categories	Amount	Categories	Amount
Membership Fees & Dues		Leasing of Motor Vehicles	
Rental of Marine Equipment		Rental of Aircraft	
Rental of Service Buildings		Rental of Office Buildings	
Rental of Conference Rooms		Maint./Repair Buildings	
Maint./Repair-DP Equipment		Maint/Rep. Mach. & Equip.	
Advertising		Maint./Rep. Motor Vehicles	500
Rental of Storage Space		Rental of Warehouses	
Data Processing Services		Freight/Delivery Charges	
Information Services		Photographic Services	
Postal Services	2,915	Copying (Reprod.) Services	
Statewide Telecom. Network		Contracted Temp. Services	13,493
Rent Mob.Phs.Beeper, Pagers		Rental of Telecom Equip.	360
Rental of Tools & Equipment		Rental Copying Machines	
Rental of Office Equipment		Rental of Office Space	
Rental of Software		Rental of Media	
Utilities-Natural & LP Gas		Rental of Motor Vehicles	
Utilities-Telephone (Mo.)		Utilities-Electricity	
Utilities-Wire Service		Utilities-Telephone (LD)	
Utilities-Waste Disposal		Utilities-Telephone (Other)	
Interagency Contracts		Utilities-Water	
Insurance Premiums		Utilities-Other	
Other/Misc.		Interest Payments	
		TOTAL	\$17,268

Field Operations

Maint./Rep. Motor Vehicles	500
Postal Services	2,915
Contracted Temp. Services	9,993
Rental of Telecom Equip.	360

Chief Engineer

Contracted Temp. Services	3,500
Total	\$17,268



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Proposed
Fiscal Year 2005
Scope of Work
and
Budget for the
*Division of Emergency Management
Texas Department of Public Safety***

**STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

**State of Texas – US Department of Energy
Agreement in Principle**

Proposed Scope of Work & Budget
for the
Governor's Division of Emergency Management (GDEM)
For Fiscal Year (FY) 2005

I. FY 2005 Scope of Work:

Texas Department of Public Safety (DPS) and Governor's Division of Emergency Management (GDEM) participation in the State of Texas - US Department of Energy (DOE) Agreement-in-Principle (AIP) will concentrate on AIP Task Three, Emergency Management. With respect to Task Three, GDEM plans to carry out the following activities:

A. Review of Pantex Plant Hazard Assessments and Protective Action Guidance

GDEM will review and, where appropriate, provide comments to the DOE Pantex Site Office (PXSO) on any new or updated hazard assessments prepared for the Pantex Plant and on proposed protective action recommendations relating to such hazards.

B. Review and Update State Emergency Plans, Annexes, & Procedures

GDEM will update State plans, annexes, and procedures pertaining to radiological or hazardous materials incidents at the Pantex Plant and provide review copies of changes to selected materials to DOE PXSO for review. Specific GDEM activities will include:

1. Review and, if required, update, the *State of Texas Emergency Management Plan*.
2. Review and, if required, update the *GDEM State Operations Center (SOC) Standard Operating Procedures (SOP) and the subsidiary SOC SOP for Pantex Plant Emergencies*.
3. Assist DPS Disaster District 5B in Amarillo in reviewing and, if required, updating its *Disaster District Committee Emergency Operations Handbook*.

C. Review of Pantex Emergency Plans and Procedures

GDEM will review, comment on, and maintain copies of Pantex emergency plans and procedures pertaining to radiological or hazardous materials incidents, to include:

1. Maintain controlled copies of *the Pantex Plant Emergency Plan* and emergency preparedness procedures at the State Operations Center (SOC) if these materials are made available to the Division.
2. Review *the Pantex Plant Emergency Plan* and Plant emergency preparedness procedures and provide comments to DOE according to the schedule established by DOE.
3. Assist DPS Disaster District 5B in maintaining controlled copies of *the Pantex Plant Emergency Plan* and emergency preparedness procedures for use in the Disaster District EOC if these materials are made available to District 5B.

D. Joint Emergency Exercise and Drills

GDEM will work with Pantex officials, local governments, other state agencies, volunteer groups, and others to design, schedule, conduct, and evaluate period joint emergency exercises and drills and will participate in such exercises and drills to the extent possible.

E. Emergency Management Coordination

GDEM will meet periodically with the DOE Pantex and BWXT emergency management staffs and local emergency management personnel to review and resolve emergency management issues and coordinate emergency management activities. Activities are expected to include:

1. Participating in Pantex Program quarterly progress reviews.
2. Participating in periodic joint emergency management meetings with local governments, other state agencies, the Plant staff, and DOE personnel.
3. Participating in meetings of state and local emergency management agencies relating to preparedness for Pantex Plant incidents.
4. Participating in other emergency management related activities, such as local emergency planning committee (LEPC) meetings

F. Threat Assessment

GDEM will review and, where appropriate, provide comments regarding any new information provided by DOE with respect to the effects of the maximum credible accident.

G. Emergency Notification Exercise & Communications Tests

GDEM and DPS District 5B will participate in periodic emergency notification exercises and drills and periodic communications tests.

H. Incident Response

In the event of an incident at Pantex potentially affecting the off-site population, DPS District 5B and GDEM will, upon request, assist local authorities with their emergency response to the extent and in the manner specified in state and local emergency management plans.

I. Hazardous Materials Training for Emergency Responders

In coordination with DOE and other state and local AIP participants, GDEM will organize, schedule, conduct, or arrange training related to hazardous materials for state and local emergency response organizations.

GDEM also funds, through other resources, certain radiological monitoring and assessment courses for public sector emergency responders and officials that are conducted by the Texas Department of Health Bureau of Radiation Control. Such training can be arranged for local jurisdictions that participate in the Agreement in Principle.

J. Local Planning Support

GDEM will assist local governments in reviewing and updating their emergency plans, annexes, and procedures relating to emergencies at the Pantex Plant and facilitate multi-jurisdictional integration of such plans and procedures.

K. Review of Local Emergency Plans

GDEM will review and provide comments on local government emergency planning document developed to prepare for a radiological or hazardous material incident at the Pantex Plant, to include:

1. The GDEM staff will examine local emergency plans, annexes, and procedures, and make recommendations to local governments regarding changes to such materials. The GDEM staff may assist local governments in developing revised planning materials. Local governments are responsible for submitting updated emergency planning materials to the GDEM Regional Liaison Officer in Amarillo.

2. The GDEM Regional Liaison Officer for District 5B will review revised local emergency management plans and related annexes submitted by local governments for compliance with state emergency planning standards and provide feedback to those local governments.
3. The GDEM Preparedness Section:
 - a) Receives and reviews emergency management plans and plan annexes developed by local governments.
 - b) May provide feedback on materials submitted.
 - c) Maintains data on the status of emergency planning in each jurisdiction in the vicinity of the Pantex Plant.

L. Emergency Public Information Materials

GDEM will assist local governments in developing emergency public information materials and programs, including:

1. GDEM will design, contract for production of, and distribute a Pantex Area Emergency Preparedness Calendar for calendar year 2005, coordinating as necessary with local governments, other state agencies, and DOE Pantex Site Office.
2. GDEM will design and contract for publication of a Pantex emergency information insert for the 2005 Southwestern Bell Amarillo area telephone directory, coordinating as necessary with local governments, other state agencies, and DOE Pantex Site Office.

M. Reception Center Procedures.

GDEM will assist the Amarillo/Potter/Randall Emergency Management Department in updating procedures for operating the Pantex Reception Center located at the Tri-State Fair Grounds, if required.

II. FY 2004 Program Budget

CATEGORY	DESCRIPTION	AMOUNT
A. Salaries		
	FTE Planner III, Group B-12	41,544
	1.0 FTE Planner II, Group B-11	39,552
	1.0 FTE Admin. Tech. I, Group A-8	19,452
	Merit Bonus Allowance	1,500
	Subtotal	102,048
B. Benefits		
	FTE Planner III, Group B-13	9,264
	1.0 FTE Planner II, Group B-12	10,284
	1.0 FTE Admin. Tech. I, Group A-8	6,264
	Subtotal	25,812
C. Travel		6,350
D. Equipment	Computer, Printer, and/or LCD replacement	3,300
E. Operating Expense		
	Supplies, services, & minor office equipment	3,088
	Project: 2005 Pantex Emergency Preparedness Calendar (Note B)	5,200
	Project: 2005 Amarillo Telephone Book	10,800
	Emergency Preparedness Ad (Note B)	
	Disaster District 5B EOC phones	575
	Subtotal	19,663
F. Indirect Costs	Based on 27.27% of salaries (See Note)	27,828
TOTAL		185,001

Note: 27.27% is approved FY 04 rate; the FY 05 rate is likely to differ and should be determined by March 200



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Proposed
Fiscal Year 2005
Scope of Work
and
Budget for the
*City of Amarillo***

**STATE OF TEXAS
 AGREEMENT IN PRINCIPLE
 ESTIMATED COSTS
 FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

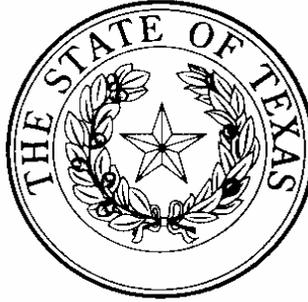
**CITY OF AMARILLO/POTTER COUNTY
FY05 SCOPE OF WORK**

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.
7. Review current information to assess the effect of the maximum credible accident.
8. Participate in periodic notification exercises and communications drills.
9. Develop public information materials and programs.
10. Develop procedures and maintain the Reception Center located at the Tri-State Fair Grounds

**CITY OF AMARILLO/POTTER COUNTY
FY05 BUDGET**

Salaries	\$ 40,000.00
Travel	\$ 2,000.00
Equipment	\$ 2,000.00
Other	\$ 7,445.00
 Total	 \$ 51,445.00

Other expenses include: Maintenance of Amarillo EOC AIP equipment, reception center expenses and utility charges, emergency response software support, training, data entry, office expense, printing, and public information.



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Proposed
Fiscal Year 2005
Scope of Work
and
Budget for the
*Armstrong County***

**STATE OF TEXAS
 AGREEMENT IN PRINCIPLE
 ESTIMATED COSTS
 FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

**Proposed FY 2005
Scope of Work & Budget
Armstrong County**

I. Scope of Work

- A. Review and provide comments on updated hazard assessments conducted by the Pantex Plant, as appropriate. Review and update plans, annexes, and procedures pertaining to an emergency at the Pantex Plant which might produce off-site effects.
- 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 emergency exercises and drills relating to the Pantex Plant 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. Participate in quarterly AIP meetings.
- E. Review current information to assess the effect of the maximum credible accident. Participate in joint efforts to develop Pantex-related emergency preparedness by enhancing facilities and equipment.
- F. Participate in periodic notification exercises and communications drills. Participate in Pantex-related training events.
- G. Develop public information materials and programs. Participate in AIP public meetings as required.
- H. Develop procedures for utilizing the Reception Center located at the Tri-State Fairgrounds.

ARMSTRONG COUNTY
FY05 BUDGET

II. Proposed Budget

Personnel	\$4,500
Travel	\$1,500
Equipment	\$1,882
Supplies	\$ 500
Other	\$4,731
Total	\$13,113

Category Definitions

- Personnel: Salary of Emergency Management Coordinator. (25%)
- Travel: All necessary AIP-related travel to include travel and fees for training.
- Equipment: Single purchase or project designated for AIP need.
- Supplies: Training and office supplies, etc.
- Other: Exercise expenses and other indirect or direct operating costs pertaining to the maintenance of AIP.



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Fiscal Year 2005
Scope of Work
and
Budget for the
*Carson County***

**STATE OF TEXAS
 AGREEMENT IN PRINCIPLE
 ESTIMATED COSTS
 FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

PROPOSED FY2005 BUDGET

1. Travel	\$3,433.00
2. Equipment	\$2,446.00
3. Personnel.....	\$5,000.00
4. Other	\$4,420.00
TOTAL.....	\$15,299.00

Travel – Costs associated with travel to participate in AIP and related meetings as well as costs to attend training.

Equipment – Costs for equipment needed to properly perform emergency management functions.

Personnel – Costs associated with personnel to fill-in when EM coordinator is out for training/meetings. It has also been discussed that part of the EM's salary might be taken from here, but no definite plans have been made by the Judge.

Other – Any other costs associated with the AIP agreement that might not be covered by above categories.

**CARSON COUNTY FY 2005
SCOPE OF WORK**

- 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.



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Fiscal Year 2005
Scope of Work
and
Budget for the
*Office of the Attorney General***

**STATE OF TEXAS
 AGREEMENT IN PRINCIPLE
 ESTIMATED COSTS
 FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

Scope of Work

Specific services to be provided by the Office of the Attorney General include, but are not limited to, the following:

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

Office of the Attorney General
Estimated Budget for Interagency Contract 01-03676 (Pantex)
Fiscal Year 2005

Project Expenditures *

PERSONNEL

Salaries:

Legal Assistant	\$2,800.00
Assistant Attorney General	<u>4,500.00</u>

Subtotal: **7,300.00**

INDIRECT COSTS

Legal Billing Overhead Rates:

Legal Assistant	2,200.00
Assistant Attorney General	<u>4,000.00</u>

Subtotal: **6,200.00**

TRAVEL

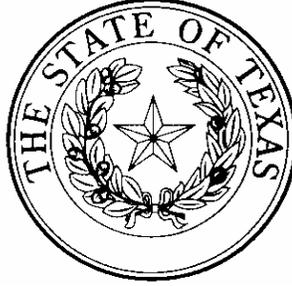
1,000.00

OTHER DIRECT COSTS

500.00

TOTAL: **\$15,000.00**

* Personnel and Indirect Costs are based on hourly salary and overhead rates.



**STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY**

AGREEMENT IN PRINCIPLE

**Fiscal Year 2005
Scope of Work
and
Budget for the
*Bureau of Economic Geology***

**STATE OF TEXAS
 AGREEMENT IN PRINCIPLE
 ESTIMATED COSTS
 FISCAL YEAR 2005**

PARTICIPANT	DOE PROGRAM		TOTAL BUDGET
	Defense Programs	Environmental Management	
Texas Department of Health			
Bureau of Radiation Control	255,437		255,437
Laboratories	62,000		62,000
Total	317,437		317,437
Texas Commission on Environmental Quality			
Remediation Division		267,353	267,353
Field Operations		89,671	89,671
Chief Engineer's Office		75,969	75,969
Monitoring Operations		63,663	63,663
Environmental Law		3,344	3,344
Total		500,000	500,000
Division of Emergency Management	185,001		185,001
City of Amarillo	51,445		51,445
Armstrong County	13,113		13,113
Carson County	15,299		15,299
State Energy Conservation Office	195,097		195,097
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	95,481		95,481
TOTAL ESTIMATED COSTS	887,873	500,000	1,387,873

BUREAU OF ECONOMIC GEOLOGY

SCOPE OF WORK – FY05

- A. The Bureau of Economic Geology will participate in quarterly status meetings with the Department of Energy; participate in focus groups based on qualifications; prepare quarterly reports; participate in public meetings to discuss state oversight activities at the Pantex Plant; propose modifications to the Agreement in Principle as appropriate; provide, as appropriate, reports and brochures for public education on Pantex.
- B. The Bureau of Economic Geology shall provide the following services:

PURPOSE:

The purpose of our work for FY05 will be to:

1. Continue monitoring of temporal variability in infiltration and evapotranspiration in the shallow subsurface active zone (upper 1 to 2 m) and the potential for upward water movement below this active zone in interplaya settings at the Pantex Plant and adjacent to Playa 5.
2. Complete assessment of the water balance of irrigated sites based on analyses of the Bushland weighing lysimeter data
3. Monitor evapotranspiration at the proposed irrigation site to provide information to the operator on crop water requirements
4. Assist Pantex on optimal approaches for monitoring the performance of ET covers as they are installed.

The long-term monitoring record is valuable in assessing the penetration depth of contaminants in interplaya settings and providing monitoring data and confidence in potential performance of engineered covers for landfills at the Pantex site.

Preliminary analysis of water balance monitoring data at Bushland suggested that this information would be valuable in determining the potential for water penetration beneath irrigated sites. More thorough analysis of the data is required that examines pressure monitoring data at the base of the lysimeters to determine if the lysimeters were functioning properly. We will complete these analyses and put the data in context by comparing the results with monitoring data the Bureau is collecting in irrigated sites in the central section of the Southern High Plains. Compiling existing data on the water balance of irrigated and nonirrigated regions in the vicinity of Pantex provides valuable support for the wastewater irrigation program being installed for Pantex and also the ET covers proposed for various landfills. State of the art weighing lysimeter data are available at the US Dept. of Agriculture in Bushland. Analysis of these data will be conducted to evaluate the water balance relative to meteorological conditions and crop phenology. This analysis will be valuable for the wastewater irrigation program at Pantex.

We will continue monitoring evapotranspiration (ET) using a Bowen Ratio system at the irrigated site. These data will guide the operator on crop water requirements. Actual ET measurements from the Bowen Ratio system will be compared with calculated ET based on potential ET estimates from the meteorological station at Pantex and the crop coefficients provided by Bushland. This comparison of actual ET measurements with calculated ET will be used to evaluate the concept of using PET and crop coefficients to assess crop water requirements as is done with the PET network in the High Plains. The data on actual ET will also be valuable to farmers in regions immediately surrounding Pantex to guide them in irrigation water applications. Monitoring of precipitation, irrigation applications, and ET will provide quantitative information on the primary components of the water balance at the irrigated site.

METHODOLOGY

The work during FY05 will consist of continued monitoring of hydraulic parameters adjacent to Playa 5 and in the monitoring station at Pantex that was established in January 1998. Monitoring of water potential and temperature initiated in 1994 adjacent to Playa 5 will be continued in FY05. Monitoring of matric potential and temperature, which was initiated in 1998 at the Pantex monitoring station, will also be continued in FY05. The monitoring data will be compared with precipitation records to evaluate the depth of penetration of wetting fronts after precipitation. The performance of the instruments will be evaluated to ensure that the monitoring data are reliable. Faulty instruments will be replaced periodically. Data loggers will be downloaded monthly.

Detailed information is available on water balance of irrigated and nonirrigated crops from precision weighing lysimeters at Bushland. Water balance time series will be examined to evaluate ET and drainage in relation to meteorologic conditions. Previous studies using lysimeter data from the Nevada Test Site demonstrated the opportunistic behavior of vegetation and its ability to remove all infiltrated water. The Bushland data will provide critical information on the water balance of crops under soil and climate conditions similar to Pantex.

A Bowen Ratio Energy Budget system will be installed in September FY 04 for monitoring ET at the Pantex Plant. We will continue monitoring of ET at the irrigated site. By monitoring precipitation, irrigation applications, and ET, the primary components of the water balance will be quantified. Time series analysis will be conducted to evaluate the effect of different meteorologic forcing and crop phenology on the water budget. We will compare actual ET estimated with the Bowen Ratio system to calculated ET from PET based on meteorological data at the Pantex site

and crop coefficients to evaluate the reliability of the latter approach to estimating actual ET. This analysis will be valuable to farmers who routinely use the PET network to assess crop water demands.

We will assist Pantex in developing optimal approaches for monitoring the performance of ET covers. Monitoring is critical to ensure that the covers are performing according to the design specifications and to ensure that there is little or no drainage from the covers into underlying material.

DELIVERABLES

An annual report will be prepared at the end of FY2005 that will include monitoring data for the Pantex and Playa 5 installations, water balance of irrigated regions based on data from USDA ARS Bushland, monitoring of ET at the irrigated plots, and review of monitoring instrumentation for engineered covers.

**BUREAU OF ECONOMIC GEOLOGY
BUDGET – FY05**

PERSONNEL¹

Salaries:	\$35,740
Benefits:	\$11,438

TRAVEL²

Airfare, per diem, mileage, and other direct travel expenses	\$ 4,780
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OTHER DIRECT OPERATING EXPENSE

(Data logger, replacement instruments, publication charges)	\$ 11,696
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INDIRECT COSTS

\$31,827

TOTAL DIRECT COSTS

\$ 95,481

¹ Bridget Scanlon shall be Project Director for this project and shall be responsible for the overall supervision and conduct of the project.

² All actual, reasonable travel expenses will be reimbursed at state authorized rates.