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

SCOPE OF WORK
&
COST ESTIMATES
FISCAL YEAR 2003

STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY

AGREEMENT IN PRINCIPLE

PANTEX FACILITY GRANT SCOPES OF WORK AND COST ESTIMATES FOR FISCAL YEAR 2003

- **Fiscal Year 2003 Budget**

- **Fiscal Year 2001 -
Fiscal Year 2005
Budget**

- **Fiscal Year 2003
Scope of Work**

- **Appendix A
Specific Project Objectives**

- **Agreement in Principle
Fiscal Year 2003 Proposals**

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

PARTICIPANT	DOE PROGRAM		TOTAL
	Defense Programs	Environmental Management	BUDGET
Texas Department of Health			
Bureau of Radiation Control	237,215		237,215
Laboratories	62,000		62,000
Total	**299,215**		**299,215**
Texas Natural Resource Conservation Commission			
Remediation Division		174,096	174,096
Field Operations		161,362	161,362
Monitoring Operations		77,640	77,640
Toxicology & Risk Assessment		71,902	71,902
Environmental Law		2,000	2,000
Total		**487,000**	**487,000**
Division of Emergency Management	170,465		**170,465**
City of Amarillo	48,492		**48,492**
Armstrong County	12,360		**12,360**
Carson County	14,420		**14,420**
State Energy Conservation Office	183,898		**183,898**
Office of the Attorney General	15,000		**15,000**
Bureau of Economic Geology	92,700		**92,700**
TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

FISCAL YEAR
2001 - 2005
BUDGET

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
FIVE YEAR SPENDING PLAN

	Fiscal Year 2001	Fiscal Year 2002	Fiscal Year 2003	Fiscal Year 2004	Fiscal Year 2005
Texas Department of Health, Bureau of Radiation Control	290,500	299,215	299,215	308,191	317,437
Texas Natural Resource Conservation Commission	500,000	487,000	487,000	450,000	450,000
Texas Department of Public Safety, Division of Emergency Management	165,500	170,465	170,465	175,579	180,846
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	14,853	15,298
State Energy Conservation Office, Pantex Program	150,920	183,898	183,898	203,364	223,414
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	95,481	98,345
TOTAL	**1,285,000**	**1,323,550**	**1,323,550**	**1,325,146**	**1,364,899**

FISCAL YEAR 2003
SCOPE OF WORK

AGREEMENT IN PRINCIPLE

SCOPE OF WORK FOR STATE OF TEXAS

FISCAL YEAR 2003

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 Years 2003 through 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.

Division of Emergency Management

The Division of Emergency Management of the Texas Department of Public Safety will participate in activities under Tasks 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 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 Natural Resource Conservation Commission (TNRCC) 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 TNRCC in reviewing inventories of all hazardous, regulated waste (chemical, radiological and mixed) identified onsite.

3. Assist the TNRCC in reviewing updates of the plant waste and residue characterization plan.

4. Assist the TNRCC in reviewing updates of the facility-wide waste minimization plans.

Task II: Environmental Monitoring

5. Assist the TNRCC 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 TNRCC 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 TNRCC 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 Natural Resource Conservation Commission

The Texas Natural Resource Conservation Commission 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 TNRCC 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.

Bureau o 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 an 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 an 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

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 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 2003
PROPOSALS

TABLE OF CONTENTS

STATE ENERGY CONSERVATION OFFICE

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

TEXAS DEPARTMENT OF HEALTH

TEXAS DEPARTMENT OF PUBLIC SAFETY

CITY OF AMARILLO

ARMSTRONG COUNTY

CARSON COUNTY

THE UNIVERSITY OF TEXAS AT AUSTIN

OFFICE OF THE ATTORNEY GENERAL

STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY

AGREEMENT IN PRINCIPLE

Proposed
Fiscal Year 2003
Scope of Work
and
Budget

State Energy Conservation Office

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

PARTICIPANT	DOE PROGRAM		TOTAL
	Defense Programs	Environmental Management	BUDGET
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Bureau of Radiation Control	237,215		237,215
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Office of the Attorney General	15,000		**15,000**
Bureau of Economic Geology	92,700		**92,700**
TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

STATE ENERGY CONSERVATION OFFICE

SCOPE OF WORK

FISCAL YEAR 2003

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 $183,898.

STATE ENERGY CONSERVATION OFFICE
COST ESTIMATE
FISCAL YEAR 2003

SALARIES

Director	11 man-months	$59,166	
Program Administrator	8 man-months	$37,858	
Administrative Assistant	11 man-months	$30,114	
	TOTAL SALARIES		**$127,138**

BENEFITS (@ 22% of salaries) **$27,970**

TRAVEL

Amarillo		
Three Quarterly Meetings, two days each, two people attending	$3,400	
Six trips, two days each, two people	$6,600	
Albuquerque, NM		
Two trips, two days each, two people	$3,200	
Washington, D.C.		
Two trips, two days each, two people	$3,800	
	TOTAL TRAVEL	**$17,000**

EQUIPMENT **$4,000**

SUPPLIES & SERVICES **$7,790**

TOTAL DIRECT COSTS **$183,898**

STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY

AGREEMENT IN PRINCIPLE

Proposed
Fiscal Year 2003
Scope of Work
and
Budget

Texas Natural Resource Conservation Commission

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

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Total	**299,215**		**299,215**
Texas Natural Resource Conservation Commission			
Remediation Division		**174,096**	**174,096**
Field Operations		**161,362**	**161,362**
Monitoring Operations		**77,640**	**77,640**
Toxicology & Risk Assessment		**71,902**	**71,902**
Environmental Law		**2,000**	**2,000**
Total		**487,000**	**487,000**
Division of Emergency Management	170,465		**170,465**
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Carson County	14,420		**14,420**
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TABLE OF CONTENTS

SUMMARY **1**

WORK PROGRAM ORGANIZATIONAL STRUCTURE **2**

FEDERAL FUNDING **2**

DIVISION FUNDING **2**

PROJECT SCHEDULE **2**

DELIVERABLES **3**

REMEDIATION DIVISION

Program Element 1 ..... **6**

FIELD OPERATIONS DIVISION

Program Element 1 ..... **9**

MONITORING OPERATIONS DIVISION

Program Element 1 ..... **12**
Program Element 2 ..... **14**

TOXICOLOGY AND RISK ASSESSMENT SECTION

Program Element 1 ..... **16**

ENVIRONMENTAL LAW DIVISION

Program Element 1 ..... **18**
Program Element 2 ..... **19**

Program Element 1 ..... **21**

BUDGET TABLES

ALL DIVISIONS 23

REMEDIATION..... 24

FIELD OPERATIONS 25

TOXICOLOGY AND RISK ASSESSMENT SECTION..... 26

MONITORING OPERATIONS..... 27

ENVIRONMENTAL LAW. 28

PANTEX WEAPONS FACILITY SUBGRANT PROGRAM

DEPARTMENT OF ENERGY
through the
STATE ENERGY CONSERVATION OFFICE
FY 2003

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 Natural Resource Conservation Commission (TNRCC); 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 a regulatory evaluation of site environmental restoration activities; 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 TNRCC 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 a permit issued by the TNRCC and currently under revision. Non-radiological hazardous and solid waste activities are regulated by a permit initially issued by the TNRCC in 1991 and amended in February, 1996. Mixed wastes (hazardous plus radioactive) are managed by Pantex in accordance with the Agreed Order and Compliance Agreement issued in October, 1995, and revised in October, 1996.

During the years, the Pantex facility has made progress in reducing the wastewater flows and minimizing the generation of industrial solid waste. The site has advanced, as most industries have, in becoming environmentally conscious. The Pantex facility has had it's share of problems due to changes in technology, but is comparable to other major industries in the Panhandle area with respect and sensitivity to environmental issues.

For FY 2003, the TNRCC's Region 1 Office in Amarillo, Texas will continue to regulate the Pantex facility through the increase of oversight inspections and periodically co-sample with Pantex environmental media for the purpose of protecting the citizens adjacent the Pantex facility. The

TNRCC's Remediation Division will provide continued oversight of Pantex's environmental restoration program.

WORK PROGRAM ORGANIZATIONAL STRUCTURE

The project tasks are divided between five TNRCC Divisions; Remediation, Field Operations Region 1, Monitoring Operations, Toxicology & Risk Assessment Section, and Environmental Law.

FEDERAL FUNDING

The total cost of the FY 2003 workplan is $487,000. This amount is 100% pass-through Federal funds from the Comptroller of Public Accounts' State Energy Conservation Office and requires no State match.

DIVISION FUNDING

The requested funding of the divisions participating in the Pantex Subgrant is as follows:

DIVISION	$ AMOUNT	% OF TOTAL
Remediation	174,096	35.76%
Field Operations	161,362	33.13%
Monitoring Operations	77,640	15.94%
Toxicology & Risk Assessment	71,902	14.76%
Environmental Law	2,000	0.41%
TOTAL	$487,000	100.00%

PROJECT SCHEDULE

The TNRCC will conduct this project over a twelve (12) month period beginning October 1, 2002, and ending September 30, 2003.

DELIVERABLES

The Remediation Division will:

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 CMS, CMI's and SWMU closures as part of an expedited approach;

- Evaluate the soil and groundwater quarterly monitoring data that are submitted by Pantex in an electronic format. The soil and groundwater data will be evaluated to determine if interim stabilization measures are necessary to protect human health and the environment;

- Participate, as resources 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 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 as resources allow, on Pantex's environmental restoration interim reports, scopes of work, and work plans; and

- Submit to Pantex and the State Energy 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 groundwater samples, as resources allow, to determine water quality;

- Collect particulate and volatile organic compound air samples, as resources allow, to determine air quality;

- 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, as needed, to DOE/Pantex on monitoring oversight activities conducted at the facility.

The Air Monitoring Operations Division will:

- Review and evaluate DOE monitoring and emissions data;

- Produce summaries of air monitoring data with toxicological review and provide copies to the DOE and the State Energy Conservation Office at quarterly meetings;

- Submit results of air sampling for FY 2002 in an annual report to DOE and the State Energy Conservation Office by June 30, 2003; 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.

The Toxicology and Risk Assessment Section will:

- Submit semi-annual reports to the Monitoring Operations Division with air monitoring results and summary statistics for the fiscal year;

- Submit an annual report to the Monitoring Operations Division with annual air monitoring results and summary statistics;

- Submit to the Monitoring Operations Division or the TNRCC regional office for distribution any reports prepared from additional information or environmental data collected in relation to the Pantex facility;

- Submit reports to the TNRCC regional office as necessary on critical groundwater monitoring results and summary statistics;

- Accompany agency staff, as resources allow, to public meetings to assist in answering questions relating to human health and the environment at the Pantex facility;

- Prepare and update, as necessary, the Quality Assurance Project Plan (QAPP) for the monitoring and analysis of chemical constituents which may be present in the environment in and around the Plant; and

- Submit evaluation reports to the Corrective Action Section on final baseline 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 TNRCC AIP members and other Office of Legal Services staff regarding permitting and enforcement;

- Provide necessary legal advice regarding TNRCC AIP staff questions and concerns; and

- Represent TNRCC AIP staff in any negotiations, mediation, or other possible contested matters.

REMEDIATION DIVISION

FY 2003 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, 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 2003 at a cost not to exceed $174,096.

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 Natural Resource Conservation Commission (TNRCC), Environmental Protection Agency (EPA) and Agreement-In-Principle (AIP) sponsored meetings/discussions regarding 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, CMS, CMI, SWMU closures and other required and related reports;

Task 5: Coordinate with TNRCC staff and other state and federal agencies (e.g., EPA, TBEG, TDH), as appropriate, to fulfill ongoing project objectives;

Task 6: Compile for the TNRCC 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 TNRCC 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 CMS, CMI's and SWMU closures as part of an expedited approach;

- Evaluate the soil and groundwater quarterly monitoring data that are submitted by Pantex in an electronic format. The soil and groundwater data will be evaluated to determine if interim stabilization measures are necessary to protect human health and the environment;

- Participate, as resources 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 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 as resources allow, on Pantex's environmental restoration interim reports, scopes of work, and work plans; and

- Submit to Pantex and the State Energy 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 2003 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 2003 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 $161,362.

Task 1: Review and evaluate 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 sampled;

Task 3: 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 4: Collect samples from public drinking water systems and private wells adjacent to the Pantex Plant to determine water quality throught an independent evaluation as necessary;

Task 5: Monitor progress of tasks dealing with Environmental Restoration and Environmental Protection Programs;

Task 6: Conduct on-site monitoring and oversight of proposed closure activities or disturbance of Solid Waste Management Units (SWMU);

Task 7: Provide administrative oversight for TNRCC Region activities for the AIP grant project. This includes attending AIP meetings as necessary;

Task 8: Collect particulate and selected volatile organic samples, as necessary. Operate air samplers for organic and inorganic analysis, on-site and adjacent to the Pantex plant boundary;

Task 9: 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 10: Attend and provide technical assistance at public meetings held regarding Pantex; and,

Task 11: Provide, as appropriate, reports, brochures, and information for public education of environmental issues at Pantex.

Deliverables:

- Collect groundwater samples, as resources allow, to determine water quality;
- Collect particulate and volatile organic compound air samples, as resources allow, to determine air quality;
- 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, as needed, to DOE/Pantex on monitoring oversight activities conducted at the facility.

MONITORING OPERATIONS DIVISION

FY2003 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 at a cost not to exceed $77,640.**

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 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 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;
- Produce summaries of air monitoring data with toxicological review and provide copies to the DOE and the State Energy Conservation Office at quarterly meetings;
- Submit results of air sampling for FY 2002 in an annual report to DOE and the State Energy Conservation Office by June 30, 2003; 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.

TOXICOLOGY AND RISK ASSESSMENT SECTION

FY 2003 PANTEX WEAPONS FACILITY SUBGRANT

PROGRAM ELEMENT 1: MONITORING AND COMPLIANCE

Under this program element, the **Toxicology and Risk Assessment (TARA) Section**, Office of Permitting, Remediation & Registration is responsible for reviewing the results of all environmental monitoring and air dispersion modeling, and determining the impact of exposure to environmental contaminants emitted from the DOE Pantex facility.

OBJECTIVE: To review all environmental monitoring, air dispersion modeling data, and human health and ecological risk assessments and related documents to insure that emissions will not adversely impact public health and the environment at a cost not to exceed $71,902.

Task 1: Evaluate semi-annual and annual results of TNRCC ambient air monitoring at Pantex and one off-site total non-methane hydrocarbon (TNMHC) monitor to determine the potential impact on public health and the environment. A detailed evaluation will be conducted for compounds of concern to determine potential adverse effects and assess risk from exposure, and findings from these reviews will be reported to the DOE and interested members of the general public.

Task 2: Perform a toxicological evaluation of the critical groundwater monitoring results from the DOE Pantex facility reported on a routinely scheduled basis. A detailed evaluation will be conducted for compounds of concern to determine potential adverse effects and assess risk from exposure, and findings from these reviews will be reported to the DOE and interested members of the general public.

Task 3: At the request of TNRCC staff, the State Energy Conservation Office, DOE or the general public, review and interpret the potential public health implications of additional information or results of additional environmental sampling and human health and ecological risk assessments and related documents submitted by the Department of Energy.

Task 4: Assist in the establishment of trigger levels for use in evaluating concentrations measured with the TNMHC.

Task 5: Attend public meetings with agency staff, as resources allow, to assist in answering questions, particularly those regarding human health and ecological effects.

Task 6: Assist the corrective action section in its review of remediation documents that involve human health and ecological risk evaluations.

Deliverables:

- Submit semi-annual reports to the Monitoring Operations Division with air monitoring results and summary statistics;

- Submit an annual report to the Monitoring Operations Division with annual air monitoring results and summary statistics for the fiscal year;

- Submit to the Monitoring Operations Division or the TNRCC regional office for distribution any reports prepared from additional information or environmental data collected in relation to the Pantex facility;

- Submit reports to the TNRCC regional office, as necessary, on critical groundwater monitoring results and summary statistics;

- Accompany agency staff , as resources allow, to public meetings to assist in answering questions relating to human health and the environment at the Pantex facility;

- Prepare and update, as necessary, the Quality Assurance Project Plan (QAPP) for the monitoring and analysis of chemical constituents which may be present in the environment in and around the Plant; and

- Submit evaluation reports to the Corrective Action Section on final baseline risk assessments and related documents as necessary.

ENVIRONMENTAL LAW DIVISION

FY 2003 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 TNRCC Remediation Division, Field Operations Division, or Monitoring Operations Division at a cost not to exceed $1,000.

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 TNRCC 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 at the Pantex facility;
- Act as a liaison between TNRCC AIP members and other Office of Legal Services staff regarding permitting and enforcement;
- Provide necessary legal advice regarding TNRCC AIP staff questions and concerns; and
- Represent TNRCC AIP staff in any negotiations, mediation, or other possible contested matters.

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 at a cost not to exceed $1,000.

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 answering legal and procedural questions relating to the Pantex facility to both TNRCC AIP staff and to the public at large.

STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY

AGREEMENT IN PRINCIPLE

Proposed
Fiscal Year 2003
Scope of Work
and
Budget

Bureau of Radiation Control
Texas Department of Health

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

PARTICIPANT	DOE PROGRAM		TOTAL
	Defense Programs	Environmental Management	BUDGET
Texas Department of Health			
Bureau of Radiation Control	**237,215**		**237,215**
Laboratories	**62,000**		**62,000**
Total	**299,215**		**299,215**
Texas Natural Resource Conservation Commission			
Remediation Division		174,096	174,096
Field Operations		161,362	161,362
Monitoring Operations		77,640	77,640
Toxicology & Risk Assessment		71,902	71,902
Environmental Law		2,000	2,000
Total		**487,000**	**487,000**
Division of Emergency Management	170,465		**170,465**
City of Amarillo	48,492		**48,492**
Armstrong County	12,360		**12,360**
Carson County	14,420		**14,420**
State Energy Conservation Office	183,898		**183,898**
Office of the Attorney General	15,000		**15,000**
Bureau of Economic Geology	92,700		**92,700**
TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

Texas Department of Health

FFY 2003 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 and Bureau of Laboratories for the period from October 1, 2002 through September 31, 2003. 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 TNRCC 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 TNRCC 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 TNRCC 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, vegetation 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 TNRCC. Receipt of filter media plus 60 days. (600 hrs)

10. Assist TNRCC 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 DOE to take split samples. (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 DOE, 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 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)

12. 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 2003 Budget Estimate

Bureau of Radiation Control:

Salaries (with Benefit Replacement Pay)	107,767.00
Employee Benefits (22.08%)	23,795.00
Travel and Per Diem	27,495.00
Supplies and services	40,000.00
Equipment	20,383.00
Total Direct Costs	219,440.00
Indirect Costs (8.1%)	17,775.00
Bureau of Radiation Control Subtotal	237,215.00

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 2002 expenses:

Bureau of Radiation Control	237,215.00
Bureau of Laboratories	62,000.00
Texas Department of Health Total	299,215.00

Texas Department of Health

Bureau of Radiation Control FFY 2003 Travel

Environmental Monitoring-4 trips, Aus/Ama, 1 person (Task II)

Per Diem @ 110.00/day	16	days	1,760.00
Pers Mileage @ .345/mi	203	miles	70.00
Airfare @ 300.00	4	trips	1,200.00
4WD Van rental @ 60.00/day	16	days	960.00
Subtotal			3,990.00

Local Emerg. Plan. Meetings-3 trips, Aus/Ama, 2 persons (Task III)

Per Diem @ 110.00/day	12	days	1,320.00
Pers Mileage @ .345/mi	203	miles	70.00
Airfare @ 300.00	6	trips	1,800.00
Car rental @ 45.00/day	6	days	270.00
Subtotal			3,450.00

EMEX Exercise -Approx. 18 state-wide participants (Task III)

Per Diem @ 110.00/day	Estimated	5,940.00
Pers Mileage @ .345/mi	Estimated	730.00
Airfare (Varies)	Estimated	4,900.00
Car rental @ 45.00/day	Estimated	1,440.00
Subtotal		13,010.00

Radiological Calibration Workshop - 1 participant (Task III)

Registration	1	pers	1,250.00
Per Diem @ 150.00/day	4	days	600.00
Pers Mileage @ .345/mi	44	miles	15.00
Airfare @ 350.00	1	trip	350.00
Car rental @ 50.00/day	4	days	200.00
Subtotal			2,415.00

Quarterly A.I.P. Meetings-3 trips, Aus/Ama, 2 persons (General)

Per Diem @ 110.00/day	12	days	1,320.00
Pers Mileage @ .345/mi	203	miles	70.00
Airfare @ 300.00	6	trips	1,800.00
Car rental @ 45.00/day	6	days	270.00
Subtotal			3,460.00

Unscheduled Trips to Pantex-1 trip, Aus/Ama, 2 persons (General)

Per Diem @110.00/day	4	days	440.00
Pers Mileage @ .345/mi	88	miles	30.00
Airfare @ 300.00	2	trips	600.00
Car rental @ 45.00/day	2	days	90.00
Subtotal			1,160.00

Total	**27,495.00**

STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY

AGREEMENT IN PRINCIPLE

Proposed
Fiscal Year 2003
Scope of Work
and
Budget

Division of Emergency Management
Texas Department of Public Safety

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

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TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

STATE OF TEXAS – US DEPARTMENT OF ENERGY
AGREEMENT IN PRINCIPLE
(AIP)

PROPOSED FISCAL YEAR 2003
SCOPE OF WORK & BUDGET

for the

Division of Emergency Management
Texas Department of Public Safety

April 2002

State of Texas – US Department of Energy
Agreement in Principle

Proposed Scope of Work & Budget
for the
Division of Emergency Management (DEM)
For Fiscal Year (FY) 2003

I. FY 2003 Scope of Work:

The Texas Department of Public Safety (DPS) Division of Emergency Management (DEM) 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, DEM plans to carry out the following activities:

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

DEM will review and, where appropriate, provide comments to the DOE Amarillo Area Office (AAO) 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

DEM 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 AAO for review. Specific DEM activities will include:

1. Review and, if required, update, the *State of Texas Emergency Management Plan*.

2. Review and, if required, update the DEM *Emergency Operations Center Standard Operating Procedures and the Standard Operating Procedures 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

DEM 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 Emergency Operating Center (EOC).

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 Disaster District 5B in maintaining controlled copies of *the Pantex Plant Emergency Plan* and emergency preparedness procedures for use in the Disaster District EOC.

D. Joint Emergency Exercise and Drills

DEM will work with Pantex officials, local governments, and other state agencies 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

DEM will meet periodically with the DOE AAO and Pantex Plant emergency management staff 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 review meetings.

2. Participating in periodic joint emergency management meetings with local governments, other state agencies, the Plant staff, and DOE personnel.

F. Threat Assessment

DEM 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

DEM will participate in periodic emergency notification exercises and drills, including periodic communications tests.

H. Incident Response

In the event of an incident at Pantex potentially affecting the off-site population, DEM 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, DEM will organize, schedule, conduct, or arrange training related to hazardous materials, including radiological materials, for state and local emergency response organizations.

J. Local Planning Support

DEM 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

DEM 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 DEM Pantex Planner will examine local emergency plans, annexes, and procedures, and make recommendations to local governments regarding updates to these materials. Local governments are responsible for submitting updated emergency planning materials to the their DEM Regional Liaison Officer for a formal review.

2. The DEM Region 5 Liaison Officer 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 DEM Preparedness Section will receive and review emergency management plans and plan annexes developed by local

governments and maintain data on the status of emergency planning in each jurisdiction in the vicinity of the Pantex Plant.

L. Emergency Public Information Materials

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

1. DEM will design, contract for production of, and distribute a Pantex Area Emergency Preparedness Calendar for calendar year 2003, coordinating as necessary with local governments, other state agencies, and DOE AAO.

2. DEM will design and contract for publication of a Pantex emergency information insert for the 2003 Southwestern Bell Amarillo area telephone directory, coordinating as necessary with local governments, other state agencies, and DOE AAO.

M. Reception Center Procedures.

DEM 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.

II. FY 2003 Program Budget

CATEGORY	DESCRIPTION		AMOUNT
A. Salaries			
	1.0 FTE Program Specialist III, Group B11	39,072	
	1.0 FTE Planner I, Group B9*	34,308	
	1.0 FTE Admin. Tech. I, Group A8	20,652	
	Allowance for Merit Pay	1,599	
	Subtotal		95,631
B. Benefits			
	1.0 FTE Program Specialist III, Group B11I	9,573	
	1.0 FTE Planner I	8,405	
	1.0 FTE Admin. Tech. I	5,060	
	Subtotal		23,038
C. Travel			6,120
D. Equipment			
	Computer Replacements	2,400	
	Printer Replacement	300	
	Subtotal		2,700
E. Operating Expense			
	Supplies, Services, Minor Equipment	4,069	
	Project: 2003 Pantex Emergency Preparedness Calendar	6,200	
	Project: 2003 Telephone Book Emergency Preparedness Ad	10,100	
	Subtotal		20,369
F. Indirect Costs	(Based on 23.64% of salaries)		22,607
TOTAL			170,465

STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY

AGREEMENT IN PRINCIPLE

Proposed
Fiscal Year 2003
Scope of Work
and
Budget

City of Amarillo

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

PARTICIPANT	DOE PROGRAM		TOTAL
	Defense Programs	Environmental Management	BUDGET
Texas Department of Health			
Bureau of Radiation Control	237,215		237,215
Laboratories	62,000		62,000
Total	**299,215**		**299,215**
Texas Natural Resource Conservation Commission			
Remediation Division		174,096	174,096
Field Operations		161,362	161,362
Monitoring Operations		77,640	77,640
Toxicology & Risk Assessment		71,902	71,902
Environmental Law		2,000	2,000
Total		**487,000**	**487,000**
Division of Emergency Management	170,465		**170,465**
City of Amarillo	48,492		48,492
Armstrong County	12,360		**12,360**
Carson County	14,420		**14,420**
State Energy Conservation Office	183,898		**183,898**
Office of the Attorney General	15,000		**15,000**
Bureau of Economic Geology	92,700		**92,700**
TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

CITY OF AMARILLO/POTTER COUNTY
FY03 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
FY03 BUDGET

Salaries	$35,000.00
Travel	$ 2,300.00
Equipment	$ 2,000.00
Other	$ 9,192.00
Total	$48,492.00

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 2003
Scope of Work
and
Budget

Armstrong County

STATE OF TEXAS
AGREEMENT IN PRINCIPLE

ESTIMATED COSTS
FISCAL YEAR 2003

PARTICIPANT	DOE PROGRAM		TOTAL
	Defense Programs	Environmental Management	BUDGET
Texas Department of Health			
Bureau of Radiation Control	237,215		237,215
Laboratories	62,000		62,000
Total	**299,215**		**299,215**
Texas Natural Resource Conservation Commission			
Remediation Division		174,096	174,096
Field Operations		161,362	161,362
Monitoring Operations		77,640	77,640
Toxicology & Risk Assessment		71,902	71,902
Environmental Law		2,000	2,000
Total		**487,000**	**487,000**
Division of Emergency Management	170,465		**170,465**
City of Amarillo	48,492		**48,492**
Armstrong County	**12,360**		**12,360**
Carson County	14,420		**14,420**
State Energy Conservation Office	183,898		**183,898**
Office of the Attorney General	15,000		**15,000**
Bureau of Economic Geology	92,700		**92,700**
TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

Proposed FY 2003
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.

II. Proposed Budget

Travel	$1,500.00
Equipment	$4,000.00
Supplies	$1,500.00
Other	$5,360.00
Total	$12, 360.00

(cont.)

Category Definitions

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: Elevate existing antennae, 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

Proposed
Fiscal Year 2003
Scope of Work
and
Budget

Carson County

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

PARTICIPANT	DOE PROGRAM		TOTAL
	Defense Programs	Environmental Management	BUDGET
Texas Department of Health			
Bureau of Radiation Control	237,215		237,215
Laboratories	62,000		62,000
Total	**299,215**		**299,215**
Texas Natural Resource Conservation Commission			
Remediation Division		174,096	174,096
Field Operations		161,362	161,362
Monitoring Operations		77,640	77,640
Toxicology & Risk Assessment		71,902	71,902
Environmental Law		2,000	2,000
Total		**487,000**	**487,000**
Division of Emergency Management	170,465		**170,465**
City of Amarillo	48,492		**48,492**
Armstrong County	12,360		**12,360**
Carson County	**14,420**		**14,420**
State Energy Conservation Office	183,898		**183,898**
Office of the Attorney General	15,000		**15,000**
Bureau of Economic Geology	92,700		**92,700**
TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

CARSON COUNTY FY 2003
SCOPE OF WORK

A. Participate in Quarterly status meetings with DOE.

B. Prepare a scope of work and budget annually.

C. Prepare Quarterly reports.

D. Maintain an ongoing inventory of equipment purchased with AIP funds.

E. Participate in public meetings to discuss state oversight activities at the Pantex Plant.

F. Propose modifications to the Agreement in Principle as appropriate; and provide, as appropriate, comments on DOE NEPA documents.

G. Participate in environmental compliance or emergency management meetings relating to the Pantex programs.

H. Participate in tours, meetings and symposia.

I. 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.

J. 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.

K. 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.

L. Meet periodically with DOE and Pantex Plant emergency management staff to review and resolve emergency management issues and coordinate emergency management activities.

M. Review current information to assess the effect of the maximum credible accident.

N. Participate in periodic notification exercises and communications drills.

O. Develop public information materials and programs.

P. Develop procedures for utilizing the Reception Center located at the Tri-State Fair Grounds.

PROPOSED FY2003 BUDGET

1. Travel $3,000.00
2. Equipment $2,000.00
3. Personnel..... $5,000.00
4. Other $4,420.00

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.

STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY

AGREEMENT IN PRINCIPLE

Proposed
Fiscal Year 2003
Scope of Work
and
Budget

Bureau of Economic Geology
The University of Texas at Austin

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

PARTICIPANT	DOE PROGRAM		TOTAL
	Defense Programs	Environmental Management	BUDGET
Texas Department of Health			
Bureau of Radiation Control	237,215		237,215
Laboratories	62,000		62,000
Total	**299,215**		**299,215**
Texas Natural Resource Conservation Commission			
Remediation Division		174,096	174,096
Field Operations		161,362	161,362
Monitoring Operations		77,640	77,640
Toxicology & Risk Assessment		71,902	71,902
Environmental Law		2,000	2,000
Total		**487,000**	**487,000**
Division of Emergency Management	170,465		**170,465**
City of Amarillo	48,492		**48,492**
Armstrong County	12,360		**12,360**
Carson County	14,420		**14,420**
State Energy Conservation Office	183,898		**183,898**
Office of the Attorney General	15,000		**15,000**
Bureau of Economic Geology	**92,700**		**92,700**
TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

BUREAU OF ECONOMIC GEOLOGY

SCOPE OF WORK – FY03

A. The Bureau of Economic Geology will participate in quarterly status meetings with the Department of Energy; 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 FY03 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. install monitoring equipment at the proposed site for irrigation at the Pantex Plant to evaluate the penetration depth of irrigated water beneath this site.

3. conduct numerical simulations of the performance of evapotranspirative (ET) engineered covers that have been installed at Sandia National Laboratory.

The long-term monitoring record is valuable in assessing the penetration depth of contaminants in interplaya setting and will be extremely useful in designing an engineered covers for landfills at the Pantex site. Monitoring of the proposed irrigation site will be critical to ensure that the applied water does not move below the root zone and provide a potential source of contamination to the underlying aquifer. Engineered covers will be required at Pantex to contain waste in different locations. The proposed numerical modeling studies of the Sandia ET covers will provide valuable information for designing similar type covers at the Pantex Plant.

METHODOLOGY

The work during FY03 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 FY03. Monitoring of water potential, matric potential, and temperature, which was initiated in 1998 at the Pantex monitoring station, will also be continued in FY03. The monitoring data will be compared with precipitation records to evaluate the depth of penetration of wetting fronts after precipitation. Results from different sensors will be compared to determine if a consistent conceptual model can be developed from all the data. The monitoring data also is used to examine flow processes including piston and preferential flow. 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. Data analysis will consist of converting microvolt readings to hydraulic parameters by using previously established calibration equations. Null offset data will be checked to ensure that temperature gradients within the instruments are not affecting the instruments.

Monitoring of the irrigation site will consist of installing heat dissipation sensors to appropriate depths (10 – 15 ft) to monitor potential migration of irrigation water beneath the root zone depth. The proposed monitoring station will be similar to those installed at the Pantex Plant and adjacent to Playa 5. We will investigate the possibility of applying a tracer, such as calcium bromide, during installation of the irrigation system to use the depth distribution of the tracer as an indicator of movement of the irrigation water.

Numerical modeling of the performance of the ET covers at Sandia will be conducted using the computer code UNSATH. Simulations will be conducted for the length of the monitoring period (~ 5 yr). Results of the simulations will be compared with performance data collected at the site. Longer term simulations will also be conducted using climatic data for 30 yr. Results from this analysis will be used to provide input to design of engineered covers at the Pantex Plant.

DELIVERABLES

An annual report will be prepared at the end of FY2003 that will include monitoring data for the Pantex and Playa 5 installations, the irrigated site, and results of numerical modeling of ET covers.

BUREAU OF ECONOMIC GEOLOGY

BUDGET – FY03

PERSONNEL[1]	
Salaries:	$39,596
Benefits:	$12,671
TRAVEL[2]	
Airfare, per diem, mileage, and other direct travel expenses	$ 3,361
OTHER DIRECT OPERATING EXPENSE	
(Publication charges, Bromide analyses)	$ 6,169
INDIRECT COSTS	$30,899
TOTAL DIRECT COSTS	**$ 92,696**

EQUIPMENT	
Sensors, data loggers, and bromide tracer	$10,200
Indirect Costs @ 50% MTDC	$5,100
Total Equipment Costs	**$15,300**

[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.

STATE OF TEXAS
AND
U.S. DEPARTMENT OF ENERGY

AGREEMENT IN PRINCIPLE

Proposed
Fiscal Year 2003
Scope of Work
and
Budget

Office of the Attorney General

STATE OF TEXAS
AGREEMENT IN PRINCIPLE
ESTIMATED COSTS
FISCAL YEAR 2003

PARTICIPANT	DOE PROGRAM		TOTAL
	Defense Programs	Environmental Management	BUDGET
Texas Department of Health			
Bureau of Radiation Control	237,215		237,215
Laboratories	62,000		62,000
Total	**299,215**		**299,215**
Texas Natural Resource Conservation Commission			
Remediation Division		174,096	174,096
Field Operations		161,362	161,362
Monitoring Operations		77,640	77,640
Toxicology & Risk Assessment		71,902	71,902
Environmental Law		2,000	2,000
Total		**487,000**	**487,000**
Division of Emergency Management	170,465		**170,465**
City of Amarillo	48,492		**48,492**
Armstrong County	12,360		**12,360**
Carson County	14,420		**14,420**
State Energy Conservation Office	183,898		**183,898**
Office of the Attorney General	15,000		15,000
Bureau of Economic Geology	92,700		**92,700**
TOTAL ESTIMATED COSTS	**836,550**	**487,000**	**1,323,550**

Office of the Attorney General
Scope of Work
Fiscal Yea 2003

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
Fiscal Year 2003

*** Project Expenditures**

PERSONNEL		
Salaries:		
	Legal Assistant	$2,800.00
	Assistant Attorney General	4,500.00
	Subtotal:	**7,300.00**
INDIRECT COSTS		
Legal Billing Overhead Rates:		
	Legal Assistant	2,200.00
	Assistant Attorney General	4,000.00
	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.