DOE/MA-0274
Volume 2 of 4

Congressional Budget Request

Energy Supply Research and Development
Nuclear Waste Fund
Isotope Production and Distribution Fund
Basic Research User Facilities

Volume 2

FY 1989

U.S. Department of Energy
Assistant Secretary,
Management and Administration
Office of the Controller
Washington, D.C. 20585

February 1988

DEPARTMENT OF ENERGY

FISCAL YEAR 1989 CONGRESSIONAL BUDGET REQUEST

ENERGY SUPPLY RESEARCH AND DEVELOPMENT

NUCLEAR WASTE FUND

ISOTOPE PRODUCTION AND DISTRIBUTION FUND

BASIC RESEARCH USER FACILITIES

VOLUME 2

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DEPARTMENT OF ENERGY

FISCAL YEAR 1989 CONGRESSIONAL BUDGET REQUEST

SUMMARY OF ESTIMATES BY APPROPRIATIONS

BUDGET AUTHORITY IN THOUSANDS OF DOLLARS

	FY 1987 ACTUAL	FY 1988 ESTIMATE	FY 1989 REQUEST
APPROPRIATIONS BEFORE THE ENERGY AND WATER DEVELOPMENT SUBCOMMITTEES:			
ENERGY SUPPLY RESEARCH AND DEVELOPMENT..	$1,258,137	$1,860,087	$1,969,760
URANIUM ENRICHMENT.....	1,209,494	950,000	1,184,000
GENERAL SCIENCE AND RESEARCH.....	326,596	355,108	364,986
ISOTOPE PRODUCTION AND DISTRIBUTION FUND	509	89	16,243
BASIC RESEARCH USER FACILITIES.....	473,206	574,945	972,613
ATOMIC ENERGY DEENSE ACTIVITIES.....	7,481,852	7,749,364	8,100,000
DEPARTMENTAL ADMINISTRATION.....	226,874	164,243	177,814
ALASKA POWER ADMINISTRATION.....	2,881	3,026	3,159
BONNEVILLE POWER ADMINISTRATION.....	432,259	165,000	136,000
SOUTHEASTERN POWER ADMINISTRATION.....	19,647	27,400	36,267
SOUTHEASTERN - CONTINUING FUND.....	3,772	---	---
SOUTHWESTERN POWER ADMINISTRATION.....	25,337	16,648	15,389
WESTERN AREA POWER ADMINISTRATION.....	238,008	249,515	298,413
WESTERN AREA POWER EMERGENCY FUND.....	225	24	---
FEDERAL ENERGY REGULATORY COMMISSION....	99,079	100,000	106,760
NUCLEAR WASTE FUND.....	499,000	360,000	448,832
GEOTHERMAL RESOURCES DEVELOPMENT FUND...	72	72	75
SUBTOTAL, APPROPRIATIONS BEFORE THE ENERGY AND WATER DEVELOPMENT SUBCOMMITTEES.....	12,296,948	12,575,521	13,830,311

DEPARTMENT OF ENERGY

FISCAL YEAR 1989 CONGRESSIONAL BUDGET REQUEST

SUMMARY OF ESTIMATES BY APPROPRIATIONS

BUDGET AUTHORITY IN THOUSANDS OF DOLLARS

	FY 1987 ACTUAL	FY 1988 ESTIMATE	FY 1989 REQUEST
APPROPRIATIONS BEFORE THE INTERIOR AND RELATED AGENCIES SUBCOMMITTEES:			
ALTERNATIVE FUELS PRODUCTION.....	437	---	---
CLEAN COAL TECHNOLOGY.....	---	50,000	525,000
FOSSIL ENERGY RESEARCH AND DEVELOPMENT..	293,171	326,975	166,992
NAVAL PETROLEUM AND OIL SHALE RESERVES..	122,177	159,663	185,071
ENERGY CONSERVATION.....	232,362	309,517	89,359
ENERGY REGULATION.....	23,400	21,565	20,772
EMERGENCY PREPAREDNESS.....	6,044	6,172	6,154
STRATEGIC PETROLEUM RESERVE.....	147,433	164,162	173,421
STRATEGIC PETROLEUM ACCOUNT.....	---	438,744	1,017,907
ENERGY INFORMATION ACTIVITIES.....	60,301	61,398	62,856
SUBTOTAL, INTERIOR AND RELATED AGENCIES SUBCOMMITTEES.....	885,325	1,538,196	2,247,532
SUBTOTAL, ENERGY AND WATER DEVELOPMENT SUBCOMMITTEES.....	12,296,948	12,575,521	13,830,311
SUBTOTAL, DEPARTMENT OF ENERGY.....	13,182,273	14,113,717	16,077,843
PERMANENT - INDEFINITE APPROPRIATIONS:			
PAYMENTS TO STATES.....	912	1,839	1,909
TOTAL, DEPARTMENT OF ENERGY.....	$13,183,185	$14,115,556	$16,079,752

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL STAFFING REQUEST
TOTAL WORK FORCE

	FY1987 FTE USAGE	FY1988 -FY87	FY1988 CONGR REQ	FY1989 -FY88	FY1989 CONGR REQ
ENERGY & WATER SUBCOMMITTEE					
HEADQUARTERS	4,697	264	4,961	73	5,034
FIELD	9,356	58	9,414	-75	9,339
SUBCOMMITTEE TOTAL	14,053	322	14,375	-2	14,373
INTERIOR SUBCOMMITTEE					
HEADQUARTERS	1,181	66	1,247	-111	1,136
FIELD	882	25	907	-140	767
SUBCOMMITTEE TOTAL	2,063	91	2,154	-251	1,903
GRAND TOTAL	16,116	413	16,529	-253	16,276
ADJUSTMENT		-263	-263	-209	-472
ADJUSTED TOTAL	16,116	150	16,266	-462	15,804

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL STAFFING REQUEST
TOTAL WORK FORCE

	FY1987 FTE USAGE	FY1988 -FY87	FY1988 CONGR REQ	FY1989 -FY88	FY1989 CONGR REQ
10:ENERGY SUPPLY RESEARCH AND DEV	922	14	936	10	946
HEADQUARTERS	644	7	651	10	661
FIELD	278	7	285	0	285
15:URANIUM ENRICHMENT	59	8	67	0	67
HEADQUARTERS	48	8	56	0	56
FIELD	11	0	11	0	11
20:GENERAL SCIENCE AND RESEARCH	42	-3	39	7	46
HEADQUARTERS	42	-3	39	7	46
25:ATOMIC ENERGY DEFENSE ACTIVITI	2,782	88	2,870	40	2,910
HEADQUARTERS	492	62	554	21	575
FIELD	2,290	26	2,316	19	2,335
30:DEPARTMENTAL ADMINISTRATION	3,333	133	3,466	6	3,472
HEADQUARTERS	1,756	79	1,835	6	1,841
FIELD	1,577	54	1,631	0	1,631
34:ALASKA POWER ADMINISTRATION	36	-1	35	0	35
FIELD	36	-1	35	0	35
36:BONNEVILLE POWER ADMIN	3,398	-18	3,380	-50	3,330
FIELD	3,398	-18	3,380	-50	3,330
38:SOUTHEASTERN POWER ADMIN	38	2	40	0	40
FIELD	38	2	40	0	40
42:SOUTHWESTERN POWER ADMIN	192	-6	186	0	186
FIELD	192	-6	186	0	186
46:WAPA - POWER MARKETING	1,160	-21	1,139	0	1,139
FIELD	1,160	-21	1,139	0	1,139
50:WAPA - COLORADO RIVER BASIN	219	21	240	0	240
FIELD	219	21	240	0	240
52:FEDERAL ENERGY REGULATORY COMM	1,562	97	1,659	0	1,659
HEADQUARTERS	1,562	97	1,659	0	1,659
54:NUCLEAR WASTE FUND	307	8	315	-15	300
HEADQUARTERS	152	14	166	29	195
FIELD	155	-6	149	-44	105
56:GEOTHERMAL RESOURCES DEV FUND	1	0	1	0	1
HEADQUARTERS	1	0	1	0	1
63:CLEAN COAL TECHNOLOGY	0	45	45	13	58
HEADQUARTERS	0	21	21	5	26
FIELD	0	24	24	8	32
65:FOSSIL ENERGY RESEARCH AND DEV	709	-6	703	-133	570
HEADQUARTERS	141	-3	138	-10	128
FIELD	568	-3	565	-123	442
70:NAVAL PETROL & OIL SHALE RES	89	6	95	0	95
HEADQUARTERS	17	5	22	0	22
FIELD	72	1	73	0	73
75:ENERGY CONSERVATION	320	32	352	-109	243
HEADQUARTERS	197	30	227	-84	143
FIELD	123	2	125	-25	100
80:EMERGENCY PREPAREDNESS	64	7	71	0	71
HEADQUARTERS	64	7	71	0	71
81:ECONOMIC REGULATION	288	-13	275	-22	253
HEADQUARTERS	288	-13	275	-22	253
85:STRATEGIC PETROLEUM RESERVE	147	0	147	0	147
HEADQUARTERS	28	-1	27	0	27
FIELD	119	1	120	0	120
90:ENERGY INFORMATION ACTIVITIES	446	20	466	0	466
HEADQUARTERS	446	20	466	0	466
94:ADVANCES FOR CO-OP WORK	2	0	2	0	2
FIELD	2	0	2	0	2
GRAND TOTAL	16,116	413	16,529	-253	16,276
ADJUSTMENT		-263	-263	-209	-472
ADJUSTED TOTAL	16,116	150	16,266	-462	15,804

VOLUME II

ENERGY SUPPLY RESEARCH AND DEVELOPMENT

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL BUDGET REQUEST
ENERGY SUPPLY RESEARCH AN DEVELOPMENT

OVERVIEW

TECHNICAL INFORMATION MANAGEMENT PROGRAM

The Department of Energy (DOE) must ensure that the scientific and technical information (STI) resulting from the Agency's multibillion dollar research and development (R&D) investment is effectively managed, controlled, and disseminated, and that management of STI is considered an integral part of the R&D process from the initial planning stage through project completion. It must also ensure that Departmental elements managing and carrying out the Department's R&D programs have access to the STI needed to perform their work, regardless of the source, and that STI is shared with other government agencies and the private sector as appropriate.

The Scientific and Technical Information Program (STIP) represents a Department-wide approach to managing STI and is carried out at many levels within the Department and by its contractors.

Within the DOE infrastructure, the Office of Scientific and Technical Information (OSTI), through implementation of the Technical Information Management Program (TIMP), provides direction and leadership for the Department's STIP and furnishes a centralized base of support to assist Departmental Elements in producing, managing, and disseminating their STI, when such support is determined to be in the best economic and programmatic interests of the Department.

To fulfill these responsibilities, the TIMP operates in support of five major objectives:

- To coordinate the establishment, communication, and implementation of policy, procedures, and standards for managing STI in the Department;
- To manage and provide access to energy and nuclear defense STI;
- To provide advice and assistance to DOE program offices in planning, developing, and implementing STIP activities;
- To represent the Department and participate in interagency, international, and domestic STI activities; and
- To appraise and evaluate the application of information products and services to determine their effectiveness in meeting policy and program objectives.

Some of OSTI's major accomplishments during FY 1987 include:

- Planned, developed, and is operating an interactive realtime superconductivity information system to help insure U.S. competitiveness in the development and application of superconductivity basic research.

- Developed and is operating in coordination with DOE's Defense Program, a multiagency Arms Control Data Base which includes comprehensive information on arms research utilized for authorizing research and disarmament negotiations.

- Developed and is operating DOE's first on-line classified network which provides the communication link between OSTI's classified data resources and the Department's defense laboratories.

- Undertook the management of an information program (Energy Technology Data Exchange) for the International Energy Agency which will make valuable foreign technology available to the U.S.

Specific major activities scheduled for startup or increased emphasis in FY 1989 include:

- Upgrading of the OSTI facility to meet health and safety requirements, provide for more efficient operations, and enhance archival storage capabilities; and

- Implementation of plans to upgrade management control and environmental protection of official DOE R&D records (600,000 records of research results reported in technical reports, 1948 to present).

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL BUDGET
ENERGY SUPPLY RESEARCH AND DEVELOPMENT
(dollars in thousands)

LEAD TABLE

Technical Information Management Program

Activity	FY 1987	FY 1988 Approrpiation	FY 1989 Base	FY 1989 Request	Program Change Request vs Base Dollar	Program Change Request vs Base Percent
Technical Information Management Program						
Operating Expenses	$13,848	$13,100	$13,100	$13,100	$ 0	0%
Capital Equipment	850	900	900	900	0	0%
Line Item Construction	0	0	0	2,500	+2,500	+100%
Subtotal	$14,698	$14,000	$14,000	$16,500	$+2,500	+18%
Less funds from other sources	-4,923	0	0	0	0	0%
Total, Technical Information Management Program	$ 9,775	$14,000	$14,000	$16,500	$+2,500	+18%
Total FTEs	169	175	175	175		

Authorization: Section 31, P.L. 83-703

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL BUDGET
ENERGY SUPPLY RESEARCH AND DEVELOPMENT
(dollars in thousands)

SUMMARY OF CHANGES

Technical Information Management Program

FY 1988 Appropriation	$14,000
Adjustments - Pay cost supplemental	0
FY 1989 Base	$14,000
Construction	
- Provides for upgrading of OSTI facility to meet environmental, health, safety, and security requirements and to extend the serviceable life of the facility	+2,500
FY 1989 Congressional Budget Request	$16,500

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL BUDGET REQUEST
ENERGY SUPPLY RESEARCH AND DEVELOPMENT
(dollars in thousands)

KEY ACTIVITY SUMMARY

TECHNICAL INFORMATION MANAGEMENT PROGRAM

I. Preface: Technical Information Management Program

The Scientific and Technical Information Program (STIP) represents a Department-wide approach to managing STI and is carried out at many levels within the Department and by its contractors. Within the DOE infrastructure, the Office of Scientific and Technical Information (OSTI), through implementation of the Technical Information Management Program (TIMP), is responsible for providing direction and leadership for the Department's STIP, and for furnishing a centralized base of support to assist Departmental elements in producing, managing, and disseminating their STI, when such support is determined to be in the best economic and programmatic interests of the Department. To accomplish this role, OSTI performs a number of specific activities in support of four major TIMP objectives:

- o Coordinating the establishment, communication, and implementation of policy, procedures, and standards for managing STI in the Department.
- o Managing and providing access to energy and nuclear defense STI.
- o Providing advice and assistance to Program Offices in planning, developing, and implementing STIP activities.
- o Representing the Department and participating in interagency, international, and domestic STI activities.

II. A. Summary Table

Program Activity	FY 1987	FY 1988	FY 1989	$ Change
Operating Expenses	$ 13,848	$ 13,100	$ 13,100	+0
Capital Equipment	850	900	900	+0
Line Item Construction	0	0	2,500	+100
Subtotal	$ 14,698	$ 14,000	$ 16,500	+18
Less funds from other sources	- 4,923	0	0	0
Net Budget Authority	$ 9,775	$ 14,000	$ 16,500	+18

II. B. Major Laboratory and Facility Funding

Oak Ridge National Laboratory	$130	$130	$130	0

III. Activity Descriptions

Program Activity	FY 1987	FY 1988	FY 1989
Operating Expenses			
Program Direction	Provides for facility services and for FTEs required to implement and operate the TIMP, including: collecting, organizing, analyzing, and disseminating R&D results in accordance with DOE policy; managing DOE's Master file of worldwide energy information; designing, developing, and operating systems to control dissemination of classified and sensitive information; maintaining a database on energy-related research in progress; providing guidance, assistance, and support to DOE program managers in managing, controlling, and disseminating their scientific and technical information (STI); recommending and participating in the development of policy, standards, and procedures for DOE's STI program; negotiating and implementing bilateral and multilateral agreements for domestic and international exchange of energy information; monitoring receipt of information deliverables from DOE-funded R&D contracts; and providing tools to assist in controlling the flow of information abroad. ($7,500)	Continue to provide facility services and FTEs required to implement and operate TIMP. ($7,500)	Maintain same level of facility services and FTEs as described for FY 1987 and FY 1988. ($7,500)

III. Operating Expenses (Cont'd)

Program Activity	FY 1987	FY 1988	FY 1989
Acquisition and Appraisal	Provides for contract services to acquire and evaluate scientific and technical information which is made available to DOE scientists and engineers, and to meet requirements of certain international exchange agreements. ($1,300)	Continued same level of acquisition and evaluation services. Reduced funding requirements through consolidation of contracts. ($1,200)	Continue FY 1987 and FY 1988 level of acquisition and evaluation services. ($1,200)
Systems and Technology	Provides for contract services required to develop, build, and maintain information systems and to manage and provide automated access to scientific and technical information. ($2,448)	Continue same level of services. ($2,500)	Continues same level of services as in FY 1988. ($2,500)
Products and Services	Provides for contractor production support services and supplies required to produce and make available the results of DOE's energy research and development program. ($2,600)	Continue essentially same level of products and services at a lower funding level contingent on additional cost recovery. ($1,900)	Continue same level of services as in FY 1988. ($1,900)
Subtotal Operating Expenses	$13,848	$13,100	$13,100

III. Activity Descriptions

Program Activity	FY 1987	FY 1988	FY 1989
Capital Equipment	Provides for ADP and duplicating equipment to support DOE's centralized technical information activities. ($850)	Maintain esentially same level of equipment as FY 1987. Increase primarily for escalation.	Continues same level of equipment as FY 1988.
Subtotal Capital Equipment	$ 850	$ 900	$ 900
Construction	0	0	Provides for line item construction project for the upgrading of the OSTI facility to meet environmental, health, safety, and security requirements; enhance archival storage capabilities; and extending the serviceable life of the facility. ($2,500)
Subtotal Construction	0	0	$ 2,500
Total	$14,698	$14,000	$16,500

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL BUDGET REQUEST
ENERGY SUPPLY RESEARCH AND DEVELOPMENT
(dollars in thousands)

KEY ACTIVITY SUMMARY

CONSTRUCTION PROJECTS

Technical Information Management Program

IV. A. Construction Project Summary

Project No.	Project Title	Total Prior Year Obligations	FY 1988 Appropriated	FY 1989 Request	Remaining Balance	TEC
89-LA-1	Upgrade of OSTI Facility	---	---	$2,500	---	$2,500

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL BUDGET REQUEST
ENERGY SUPPLY RESEARCH AND DEVELOPMENT
(dollars in thousands)

KEY ACTIVITY CONSTRUCTION PROJECT SUMMARY

Technical Information Management Program

IV. B. Plant Funded Construction Project

1. Project title and location: 89-LA-1, Upgrade of OSTI Facility, Oak Ridge, Tennessee

Project TEC: $2,500
Start Date: 1st Qtr. FY 1989
Completion
Date: 3rd Qtr. FY 1990

2. Financial Schedule:

Fiscal Year	Appropriated	Obligations	Costs
1989	$2,500	$2,500	$ 950
1990	---	---	$1,550

3. Narrative:

The OSTI facility is approximately forty years old. It was originally constructed for warehouse purposes, and in the early 1950's it was renovated to include office and production areas and now houses over 300 DOE and DOE contractor employees. No major upgrades have been made to the facility since the 1950s. Recently the facility was inspected and found to have the following problems and needs:

- Overloaded and out-dated electrical service, including questionable capacity of emergency electrical power and lighting system.
- Inadequate sprinkler protection.
- Inadequate general HVAC system which has exceeded its useful life.
- Deteriorated roof, which is at the end of its useful life
- Insufficient building exit flow and security provisions.
- Inadequate environmental conditions and fire separation in Archive area, as well as possible shortage of storage area for future needs.
- Asbestos cleanup.

The proposed changes will correct safety problems which pose a threat to employees. Further, the project will extend the life of the existing building and facilitate operations by fitting the building systems to the current equipment. Improvements to the Archive Area will provide the stable environment required for long-term storage of valuable documents. Replacement of the roof will extend the life of the facility and will be more energy efficient. The HVAC renovation will remove asbestos and will be more efficient and less costly to maintain.

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL BUDGET
ENERGY SUPPLY RESEARCH AND DEVELOPMENT
(dollars in thousands)

OBJECT CLASS SUMMARY

Technical Information Management Program

		FY 1987	FY 1988	FY 1989
Direct Funding:				
11.1	Full-time permanent	$4,796	$ 5,087	$ 5,087
11.3	Other than full-time	287	304	304
11.5	Other compensation	163	161	161
11.9.	Total personnel compensation	5,246	5,552	5,552
12.1	Benefits	722	811	957
21.0	Travel	135	140	140
25.0	Other services	7,745	6,597	6,451
31.0	Equipment	850	900	900
32.0	Land and Structure	0	0	2,500
99.0	Subtotal	14,698	14,000	16,500
	Less funds from other sources	-4,923	0	0
	Totals	$ 9,775	$14,000	$16,500

DOE/MA-0274

Congressional Budget Request

Non-Defense Activities
Construction Project Data Sheets

FY 1989

U.S. Department of Energy
Assistant Secretary,
Management and Administration
Office of the Controller
Washington, D.C. 20585

February 1988

DEPARTMENT OF ENERGY

FISCAL YEAR 1989 CONGRESSIONAL BUDGET REQUEST

CONSTRUCTION PROJECT DATA SHEETS

ENERGY SUPPLY RESEARCH AND DEVELOPMENT

BASIC RESEARCH USER FACILITIES

GENERAL SCIENCE AND RESEARCH

URANIUM ENRICHMENT

NAVAL PETROLEUM AND OIL SHALE RESERVES

FOSSIL ENERGY RESEARCH AND DEVELOPMENT

NON-DEFENSE CONSTRUCTION PROJECT DATA SHEETS

ENERGY SUPPLY RESEARCH AND DEVELOPMENT

DEPARTMENT OF ENERGY
FY 1989 CONGRESSIONAL BUDGET
ENERGY SUPPLY RESEARCH AND DEVELOPMENT

CONSTRUCTION PROJECT DATA SHEET

TECHNICAL INFORMATION MANAGEMENT PROGRAM

Office of Scientific
and Technical Information (OSTI)

Program 39 LA

(Tabular dollars in thousands. Narrative material in whole dollars.)

1. Title and location of project: Upgrade of OSTI Facility
Oak Ridge, Tennessee

2. Project No.: 89-A-10C

3. Date A-E work initiated: 1st Quarter FY 1989

3a. Date physical construction starts: 2nd Quarter FY 1989

4. Date construction ends: 3rd Quarter FY 1990

5. Previous Cost Estimate: None

6. Current Cost Estimate: $2,500
Date: August 1987

7. Financial Schedule:

Fiscal Year	Authorizations	Appropriations	Obligations	Costs
1989	$2,500	$2,500	2,500	$950
1990	0	0	0	$1,550
	$2,500	$2,500	$2,500	$2,500

8. Brief Physical Description of Project:

This project will update and renovate the existing building and building systems of the Office of Scientific and Technical Information facility in Oak Ridge, Tennessee. The facility is a single level facility with 127,000 square feet. New electrical service will be provided for changed functions and safety improvements. The Archive Area will be expanded and improved. New sprinklers will be installed for safety improvements. The existing sprinkler systems and part of the HVAC systems will be modified to fit changed building and equipment configurations. The modification to the HVAC will allow in the future the orderly modification and replacement of the remainder of the entire system as required. The roof will be replaced with improved materials. Building exit flow and security provisions will be enhanced. Asbestos will be removed during renovation of the HVAC system.

1. Title and location of project: Upgrade of OSTI Facility
Oak Ridge, Tennessee

2. Project No.: 89-A-100

9. Purpose, Justification of Need for and Scope of Project:

Renovation of the OSTI facility in Oak Ridge, Tennessee is required to enable OSTI to perform an expanding mission and to protect personnel and valuable scientific and technical information. The OSTI facility is approximately forty years old. It was originally constructed for warehouse purposes, and in the early 1950s it was renovated to include office and production areas and now houses over 300 DOE and DOE contractor employees. No major upgrades have been made to the facility since the 1950s. Recently the facility was inspected and found to have the following problems and needs:

- Overloaded and out-dated electrical service, including questionable capacity of emergency electrical power and lighting system.
- Inadequate sprinkler protection.
- Inadequate general HVAC system which has exceeded its useful life.
- Deteriorated roof, which is at the end of its useful life
- Insufficient building exit flow and inefficient security provisions.
- Inadequate environmental conditions and fire separation in Archive Area, as well as possible shortage of storage area for future needs.
- Asbestos cleanup.

The proposed changes will correct safety problems which pose a threat to employees. Further, the project will extend the life of the existing building and facilitate operations by fitting the building systems to the current equipment. Improvements to the Archive Area will provide the stable environment required for long-term storage of valuable documents, a primary OSTI mission. Replacement of the roof will extend the life of the facility and will be more energy efficient. The HVAC renovation will remove asbestos hazards and will be more efficient and less costly to maintain.

10. Details of Cost Estimate

	Item Cost	Total Cost
a. Engineering, design, and inspection at approximately 15 percent of construction costs, item b	$	$ 263
b. Construction costs		1,793
(1) Building modifications - Safeguards and Security related	100	
(2) Building modifications - Other	1,693	
c. Contingency at approximately 22 per cent of above costs		444
Total project costs		$2,500

1. Title and location of project: Upgrade of OSTI Facility
Oak Ridge, Tennessee

2. Project No.: 89-A-100

11. Method of Performance

Titles I, II, and III engineering will be accomplished by a prime A/E contractor. Construction and procurement will be accomplished by the Oak Ridge on-site cost plus award fee contractor and fixed-price prime contractor(s) and subcontractor(s) awarded on the basis of competitive bidding. Construction in classified areas will be performed by cost plus award fee contractor(s).

12. Funding Schedule of Project Funding and Other Related Funding Requirements:

	Prior Years	FY 1989	FY 1990	Total
a. Total project funding				
(1) Total facility costs				
(a) Construction and line item	0	$950	$1,550	$2,500
(b) PE&D	0	0	0	0
(c) Expense funded equipment	0	0	0	0
(d) Inventories	0	0	0	0
Total facility costs	0	$950	$1,550	$2,500
(2) Other project funding				
(a) R&D necessary to complete construction...	0	0	0	0
(b) Other project related costs	0	0	0	0
Total project funding	0	$950	$1,550	$2,500

b. Total related funding requirements	
(1) Facility operating costs	0
(2) Programmatic operating expenses directly related to the facility	0
(3) Capital equipment not related to construction but related to the programmatic effort in the facility	0
(4) GPP or other construction related to programmatic effort in the facility	0
(5) Other costs	0
Total other related annual costs	0

1. Title and location of project: Upgrade of OSTI Facility Oak Ridge, Tennessee	2. Project No.: 89-A-100

13. Narrative Explanation of Total Project Funding and Other Related Funding Requirements

(None)

14. Incorporation of Fallout Shelters in Future Federal Buildings

This project does not include the construction of new buildings or building additions; therefore, the provision for fallout shelters is not applicable.

15. Incorporation of Measures for the Prevention, Control, and Abatement of Environmental Pollution at Federal Buildings

As presently conceived, implementation of this project will not generate any air or water pollutants and will be in compliance with known Federal and State standards.

16. Evaluation of Flood Hazards

This project will be located in areas not subject to flooding, determined in accordance with Executive Order 11988.

17. Environmental Impact

No environmental impact is foreseen. This project will comply with the National Environmental Policy Act and related regulations and guidelines including the Clean Air Act, Clean Water Act, and the Endangered Species Act. The facility is not located in a flood plain/wetland.

18. Accessibility for the Handicapped

The design of this project will be in accordance with the Architectural Barriers Act (Public Law 90-480) and implementing instructions in the Federal Properties Management Regulations.