

DEPARTMENT OF ENERGY  
FY 1996 CONGRESSIONAL BUDGET REQUEST  
ENERGY SUPPLY, RESEARCH AND DEVELOPMENT

OVERVIEW

ADVISORY AND OVERSIGHT PROGRAM DIRECTION

This program provides the staffing resources and associated funding required to carry out the traditional Office of Energy Research (ER) responsibilities under the Department of Energy Organization Act (P.L. 95-91) and as mandated by the Secretary in areas beyond the scope of the other assigned Energy Research programs. These activities include the statutory responsibilities for providing advice and analyses to the Secretary on science and technology policy issues, science and technology strategic planning, the overall health and well-being of the Department's energy laboratories, and other initiatives established by the Secretary. It also supports the Office of Environment, Safety and Health (ES&H) Technical Support and related program and management support staff. Staff performing those responsibilities related to management of science education activities, which were transferred from the Office of Energy Research in the 1993 departmental realignment, are transferred in FY 1995 to the University and Science Education program; and staff supporting crosscutting technology utilization policy and outreach activities of the newly established Deputy Under Secretary for Technology Partnerships and Economic Competitiveness are transferred in FY 1996 to the Technology Partnerships program.

This staff supports those activities remaining in ER upon finalization of the Department's most recent organizational realignment, including providing the Secretary with scientific and technical advice on DOE research and development projects, programs, plans and policies. Staff develop ER strategic plans; conduct independent technical assessments, peer reviews, and evaluations of specific programs and projects; represent ER on intra-agency working groups; provide interagency coordination on science and technology developments; and assess the overall strength and vitality of the multiprogram laboratory system. Staff develop and coordinate departmental laboratory management policy and oversee management processes such as strategic and institutional planning for multiprogram laboratories, laboratory appraisals, work by the laboratories for non-DOE sponsors, laboratory-directed research and development and spinoff technology transfer projects at the ER laboratories. This program also supports those activities related to infrastructure resource management including: support for environment, safety and health; general purpose facilities; general plant projects; and general purpose equipment in support of some landlord responsibilities. Staff comprising ER's Office of ES&H Technical Support are also budgeted under Advisory and Oversight Program Direction. These staff provide technical support to the Director of ER on all ES&H matters and also support the various ER programs in the implementation of their line management responsibilities regarding ES&H in their program and facility planning and operations. The remaining functions of the Office of Space, which was abolished in the 1993 realignment, were dispersed throughout the Department during FY 1994.

During FY 1994, this program supported those activities which transferred from ER to the newly established Office of Science Education and Technical Information, which oversees and coordinates the Department's activities related to strengthening science, mathematics and engineering education in the U.S. and manages university and precollege science education and manpower development programs. These resources have been incorporated into the University and Science Education program for FY 1995.

During FY 1994 and FY 1995, this program supported those activities which form the basis for the newly established Office of the Deputy Under Secretary for Technology Partnerships and Economic Competitiveness. The staff develops policy and advises the Department on technology transfer and utilization issues which cut across program lines; manages the Department's enhanced technology transfer program; performs crosscutting technology utilization and transfer studies and pilot activities; and provides tools and training programs and conducts outreach activities for the Department's technology transfer efforts. The staff develops and implements performance measurements for the Department's technology transfer activities. These resources are transferred in FY 1996 to the Technology Partnerships program.

Performance Indicators are: quality and support of overall departmental plans; improvements in R&D programs engendered by assessments and reviews; efficiencies in ES&H procedures and improvements in pollution prevention and compliance programs; improvement in environmental decisionmaking by ER and DOE; and improving stewardship of the environment at ER sites.

**DEPARTMENT OF ENERGY**  
**FY 1996 CONGRESSIONAL BUDGET REQUEST**  
**ENERGY SUPPLY, RESEARCH AND DEVELOPMENT**  
 (Tabular dollars in thousands; narrative in whole dollars)

**LEAD TABLE**

**Advisory and Oversight Program Direction**

<u>Activity</u>	<u>FY 1994 Adjusted</u>	<u>FY 1995 Appropriation</u>	<u>FY 1995 Adjustment</u>	<u>FY 1995 Adjusted</u>	<u>FY 1996 Request</u>
Energy Oversight, Research Analysis and University Support Advisory and Oversight Program Direction					
Operating Expenses.....	\$13,389 a/b/	\$12,450 b/	\$0	\$12,450	\$9,780 c/
Subtotal Program.....	13,389	12,450	0	12,450	9,780
Adjustment.....	-6 d/	-500 d/	0	-500	0
Total Program.....	<u>\$13,383</u>	<u>\$11,950</u>	<u>\$0</u>	<u>\$11,950</u>	<u>\$9,780</u>
<b>Summary</b>					
Operating Expenses.....	\$13,383	\$11,950	\$0	\$11,950	\$9,780
Total Program.....	<u>\$13,383</u>	<u>\$11,950</u>	<u>\$0</u>	<u>\$11,950</u>	<u>\$9,780</u>
Staffing (FTEs).....	124 a/b/	100 b/	0	100	79 c/

Authorization: Section 209, P.L. 95-91, "Department of Energy Organization Act."

a/ Includes 7 FTEs and \$700,000 for the Office of the Secretary of Energy Advisory Board, which was transferred to Human Resources and Administration, and 27 FTEs and \$1,711,000 for science and education programs which were incorporated into the University and Science Education program in FY 1995.

b/ Includes staffing resources related to the newly established Office of the Deputy Under Secretary for Technology Partnerships and Economic Competitiveness (16 FTEs and \$1,445,000 in FY 1994 and 18 FTEs and \$1,760,000 in FY 1995).

c/ Excludes 19 FTEs and \$2,170,000 transferred to the Technology Partnerships program.

d/ Share of Energy Supply R&D general reduction for use of prior year balances assigned to this program. The total general reduction is applied at the appropriation level.

DEPARTMENT OF ENERGY  
 FY 1996 CONGRESSIONAL BUDGET REQUEST  
 ENERGY SUPPLY, RESEARCH AND DEVELOPMENT  
 (Tabular dollars in thousands, narrative in whole dollars)

SUMMARY OF CHANGES

Advisory and Oversight Program Direction

FY 1995 Appropriation.....	\$ 12,450
- Adjustment.....	<u>0</u>
FY 1995 Adjusted.....	\$ 12,450
- Personnel Compensation - Reflects transfer of 19 FTEs to the Technology Partnerships program and other FTE reductions, offset by increases as a result of within-grade increases and pay raises.....	- 1,633
- Personnel Benefits - Decrease commensurate with personnel compensation.....	- 337
- Travel - Reflects transfer to the Technology Partnerships program and administrative reduction.....	- 265
- Contractual services - Reflects transfer to the Technology Partnerships program and administrative reduction.....	<u>- 435</u>
FY 1996 Congressional Budget Request.....	<u>\$ 9,780</u>

DEPARTMENT OF ENERGY  
 FY 1996 CONGRESSIONAL BUDGET REQUEST  
 ENERGY SUPPLY, RESEARCH AND DEVELOPMENT  
 (dollars in thousands)

KEY ACTIVITY SUMMARY

ADVISORY AND OVERSIGHT PROGRAM DIRECTION

I. Preface: Advisory and Oversight Program Direction

This program provides the Federal staffing and associated funding resources required to carry out the traditional science and technology responsibilities of the Office of Energy Research in accordance with the Department of Energy Organization Act (P.L. 95-91), including providing scientific and technical advice on DOE research and development projects, programs, plans, policies, and science and technology strategic planning; assessing and advising on the overall strength and vitality of the multiprogram laboratory system; infrastructure resource management activities; an ER Industry collaboration R&D program; and other responsibilities as mandated by the Secretary in areas beyond the scope of the other assigned Energy Research programs. It also provides the staffing and associated funding resources required by the Office of Environment, Safety and Health Technical Support and related program and management support. Staff related to management of the science education activities is transferred to the Office of Science Education and Technical Information and is budgeted in FY 1995 in the University and Science Education program. Staff related to technology transfer and utilization issues and managing the Department's enhanced technology transfer program is transferred to the Deputy Under Secretary for Technology Partnerships and Economic Competitiveness and is budgeted in FY 1996 in the Technology Partnerships program. Performance indicators are: quality and support of overall departmental plans; improvements in R&D programs engendered by assessments and reviews; efficiencies in ESH procedures and improvements in pollution prevention and compliance programs; improvement in environmental decisionmaking by ER and DOE; and improving stewardship of the environment at ER sites.

II. A. Summary Table: Advisory and Oversight Program Direction

Program Activity	FY 1994 Adjusted	FY 1995 Adjusted	FY 1996 Request	\$ Change
Personnel Compensation.....	\$ 8,795	\$ 7,849	\$ 6,216	\$ -1,633
Personnel Benefits.....	1,635	1,756	1,419	-337
Travel.....	1,000	965	700	-285
Contractual Services.....	1,959	1,880	1,445	-435
<b>Total, Advisory and Oversight Program Direction</b>	<b>\$ 13,389</b>	<b>\$ 12,450</b>	<b>\$ 9,780</b>	<b>\$ -2,670</b>

II. B. Laboratory and Facility Funding Table: Advisory and Oversight Program Direction

All Other .....	\$ 13,389	\$ 12,450	\$ 9,780	\$ -2,670
<b>Total, Advisory and Oversight Program Direction</b>	<b>\$ 13,389</b>	<b>\$ 12,450</b>	<b>\$ 9,780</b>	<b>\$ -2,670</b>

III. Activity Descriptions: (Budget Obligations in thousands of dollars)

Program Activity	FY 1994	FY 1995	FY 1996
Advisory and Oversight Program Direction			
Personnel Compensation	<p>Provided funds for personnel compensation for 117 full-time equivalents (FTEs) for the Energy Research organizations and functions described below and 7 FTEs related to the Office of the Secretary of Energy Advisory Board (SEAB) responsibilities. Includes, for example, regular salaries, lump sum payments for unused annual leave, premium pay, and employee incentive awards.</p>	<p>Provide funds for personnel compensation for 100 FTEs for the organizations and functions described below. Includes, for example, regular salaries, lump sum payments for unused annual leave, premium pay, and employee incentive awards programs.</p>	<p>Provide funds for personnel compensation for 79 FTEs for the organizations and functions described below. Includes, for example, regular salaries, lump sum payments for unused annual leave, premium pay, and employee incentive awards programs.</p>
	<p>The Office of Program Analysis and the Science and Technology Affairs Staff provided advice on matters relating to the Department's research and development programs and provided technical analyses, planning and assessments in support of departmental strategic planning; DOE-wide requirements of the Energy Policy Act of 1992; and for issues that span environment, economics, and technology. Served as a principal liaison with other Government science agencies and with technical and professional societies. Performed technical assessments, independent peer reviews and program evaluations in support of the Department's research and development goals and science and technology issues. Supported the Lawrence and Fermi Awards process.</p>	<p>Provide 23 FTEs to consolidate and support ongoing activities. Provide technical analyses, planning and assessments in support of departmental strategic planning; DOE-wide requirements of the Energy Policy Act of 1992; departmental support on the National Science and Technology Council; preparation of initiatives for contract reform; and for issues that span environment, economics, and technology. Serve as a principal liaison with other Government science agencies and with technical and professional societies. Continue to perform technical assessments, independent peer reviews and program evaluations in order to advise the Secretary on the Department's research and development programs. Continue to support the Lawrence and Fermi Awards process.</p>	<p>Provide 20 FTEs to streamline and support ongoing activities. Provide technical analyses, planning and assessments in support of departmental strategic planning; DOE-wide requirements of the Energy Policy Act of 1992; departmental support on the National Science and Technology Council; preparation of initiatives for contract reform; and for issues that span environment, economics, and technology. Serve as a principal liaison with other Government science agencies and with technical and professional societies. Continue to perform at a reduced level of effort technical assessments, independent peer reviews and program evaluations in order to advise the Secretary on the Department's research and development programs. Continue to support the Lawrence and Fermi Awards process.</p>



III. Advisory and Oversight Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
<p>Personnel Compensation (Cont'd)</p>	<p>The laboratory management staff managed uniform DOE-wide processes for continuous improvement of institutional planning, work-for-others (WFO), laboratory-directed research and development (LORD), and laboratory appraisal. Ensured continuous improvement of independent analyses on institutional planning issues and strengthened the laboratory appraisal process for greater contractor accountability. Performed special projects, participated in task forces, and managed quarterly laboratory directors' meetings with the Secretary to ensure effective issue resolution and follow-up on all action decisions. Continue to support ER laboratory director meetings.</p>	<p>Provide 8 FTEs to continue to support uniform DOE-wide institutional policy and oversight related to utilization of the Department's multiprogram laboratories as in FY 1994. Continue to improve independent analyses on institutional planning issues and to strengthen the laboratory appraisal process for greater contractor accountability. Continue to perform special projects, participate in task forces, and manage quarterly laboratory directors meetings with the Secretary. Continue to support ER laboratory director meetings.</p>	<p>Provide 8 FTEs to continue to support uniform DOE-wide institutional policy and oversight related to utilization of the Department's multiprogram laboratories. Continue to improve independent analyses on institutional planning issues and to strengthen the laboratory appraisal process for greater contractor accountability. Continue to perform special projects, participate in task forces, and manage quarterly laboratory directors meetings with the Secretary. Continue to support ER laboratory director meetings.</p>
	<p>The ER technology transfer program staff managed over 150 cooperative research and development agreements (CRADAs) between ER laboratories and industry. Planned and implemented the ER laboratory technology transfer (LTT) program, including designing criteria for government/industry partnerships; managing the American Textiles Consortium (AMTEX) partnership; and development of technology transfer evaluation activities. Represented ER at an increased number of technology transfer and industry collaboration activities.</p>	<p>Provide 10 FTEs to continue to plan and implement the expanded ER Laboratory Technology Transfer Program. Manage the increased number of CRADAs, personnel exchanges, and other individual collaborations; manage the national AMTEX partnership involving all DOE laboratories, multiple DOE program offices, and other Federal agencies; participate in and support R&amp;D projects in DOE's other major industry partnerships, including PNGV, gas and oil; flat panel displays, manufacturing; and biomedical technology; represent ER in all internal DOE and interagency technology transfer initiatives. Continue to manage expanded programs at new Industry Collaboration Centers at the Energy Research laboratories. Manage R&amp;D projects in the six national critical technology program areas: materials, computing, manufacturing, electronics and health, biotechnology and health, and energy and environment.</p>	<p>Provide 10 FTEs to continue to plan and implement the ER Laboratory Technology Transfer Program. Manage the increased number of CRADAs, personnel exchanges, and other individual collaborations; manage the AMTEX partnership involving all DOE laboratories, multiple DOE program offices; and other Federal agencies; participate in DOE's other major industry partnerships, including PNGV, gas and oil, flat panel displays, manufacturing, and biomedical technology; represent ER in all internal DOE and interagency technology transfer initiatives. Continue to manage expanded programs at Industry Collaboration Centers at the Energy Research laboratories. Manage R&amp;D projects in the six national critical technology program areas: materials, computing, manufacturing, electronics and health, biotechnology and health, and energy and environment. Focus each ER laboratory's industry R&amp;D collaboration program in the critical</p>

III. Advisory and Oversight Program Direction (Cont'd):

Program Activity

FY 1994

FY 1995

FY 1996

Personnel  
Compensation  
(Cont'd)

The former Office of Technology Utilization implemented the technology utilization function. Developed policy and advised on technology transfer and utilization issues which cut across program lines. Supported the Energy Policy Act of 1992, including using joint ventures and extending DOE/industry cooperation. Supported ongoing DOE task force efforts and interagency technology transfer efforts. Applied the Freedom of Information Act exemptions of Stevenson-Wydler to all DOE technology transfer agreements. Supported establishment of effective linkages with the technology transfer offices of state and local governments, industry associations, colleges and universities. Evaluated DOE's enhanced technology transfer program. Organized, implemented and evaluated a comprehensive DOE-wide outreach strategy. Monitored transfer of the results of DOE's research activities to commercial use. Provided policy

Focus each ER laboratory's industry R&D collaboration program in the critical technology areas where the laboratories' core competencies are strongest. Expand evaluation activities to include additional technology transfer responsibilities. Manage the technology transfer and industry R&D collaboration program at ER laboratories to ensure delegated project selection and management responsibilities are implemented according to statutory requirements. Strengthen oversight to ensure contractor accountability for management of delegated technical and financial responsibilities.

Provide 18 FTEs to support the Department's Strategic Plan and goal in Industrial Competitiveness (IC), including an approach to integrate and deploy IC goals in all program strategic plans. Manage priority setting, selection and balance of major partnerships involving multiple program, laboratory and industry sectors. Make DOE laboratories and facilities available as an integrated technical resource for private and public sector partnerships. Coordinate DOE partnership activities with other Federal agencies and the National Science and Technology Council. Coordinate development of metrics and information to report on the benefits resulting from the Department's technology partnership activities. Determine through repeat partnerships, survey and partner feedback, the level of satisfaction with DOE performance in partnerships and determine degree of diversity. Evaluate technology partnerships and approaches used in the

technology areas where the laboratories' core competencies are strongest. Expand evaluation activities to include additional technology transfer responsibilities. Manage the technology transfer and industry R&D collaboration at ER laboratories to ensure delegated project selection and management responsibilities are implemented according to statutory requirements. Strengthen oversight to ensure contractor accountability for management of delegated technical and financial responsibilities.

TRANSFER: Staffing resources for these activities are transferred to the Technology Partnerships program in FY 1996.

III. Advisory and Oversight Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
Personnel Compensation (Cont'd)	<p>recommendations on the specific issues related to technology transfer with small business, as required by the Small Business Technology Transfer Act and the Defense Authorization Act for FY 1993. Coordinated and supported the Technology Transfer Committee and its working groups and subcommittees. Developed and evaluated training and performance measurements. Completed crosscutting studies. Monitored compliance of the CRAOA approval process with statutory provisions.</p>	<p>Department, other Federal agencies and private sector to foster commercialization and improved competitiveness. Foster testing and use of new concepts in DOE. Coordinate development of policy and simplified procedures to improve and streamline the DOE technology partnership processes. Provide resolution of major issues facing specific partnership arrangements. Analyze domestic and international policy developments affecting industrial competitiveness, technology partnerships and economic competitiveness. Develop, coordinate and present DOE position as appropriate. Develop a communications strategy to inform industry of available departmental resources. Provide customer driven information management infrastructures. Provide a DOE focal point of contact for the private sector and other Federal agencies. Increase the number of businesses accessing information. Make DOE facilities easier to access. Develop and conduct Department-wide outreach and training to provide technology partnership and industrial competitiveness information to internal and external audiences.</p>	



III. Advisory and Oversight Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
Personnel Compensation (Cont'd)	<p>The infrastructure resource management staff managed the General Purpose Facilities (GPF) subprogram, the Tiger Team Remediations (ES&amp;H) subprogram, and the new Inactive and Surplus Facilities subprogram under the Multiprogram Energy Laboratories-Facilities Support (MEL-FS) program, to ensure improved infrastructure and compliance with ES&amp;H requirements. Continued to oversee development of the Condition Assessment Survey (CAS) and Capital Assets Management Process (CAMP) for ER laboratories, the maintenance management program at ER laboratories, and managing the GPP and GPE funding for Oak Ridge National Laboratory (ORNL) and Oak Ridge Institute for Science and Education (ORISE). Prepared policy and plans to implement requirements of the Energy Policy Act of 1992. Reviewed Corrective Action Plan implementation by multiprogram energy laboratories and enhanced landlord oversight activities.</p> <p>The Office of Space was abolished in the 1993 departmental realignment. The remaining policy functions and staffing resources were transferred to the Office of Policy, Planning, and Program Evaluation in FY 1994.</p>	<p>Provide 8 FTEs to continue to manage the MEL-FS program. Review and recommend approval of GPP projects above \$1,800,000 and manage landlord funding for ORNL and ORISE. Carry out the MEL-FS program including implementing the Inactive and Surplus Facilities subprogram and managing the GPP and GPE funding for ORNL and ORISE. Implement requirements of the Energy Policy Act of 1992. Continue review of ES&amp;H Management Plan implementation by multiprogram energy laboratories and enhance landlord oversight activities.</p> <p>No activity.</p>	<p>Provide 8 FTEs to continue to manage the MEL-FS program. Review and recommend approval of GPP projects above \$1,800,000 and manage landlord funding for ORNL and ORISE. Carry out the MEL-FS program and manage the GPP and GPE funding for ORNL and ORISE. Implement requirements of the Energy Policy Act of 1992. Continue review of ES&amp;H Management Plan implementation by multiprogram energy laboratories and enhance landlord oversight activities.</p> <p>No activity.</p>

III. Advisory and Oversight Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
Personnel Compensation (Cont'd)	<p>The Office of Science Education and Technical Information supported activities at the seven designated Science Education Centers and other DOE facilities in support of the National Education Goals. Supported priorities in public science literacy as well as other precollege and undergraduate programmatic areas. Supported public/private sector collaborations, science teacher preparation and enhancement initiatives, mathematics education programs and other efforts to increase participation of minorities and women in a variety of activities supported by the Department. Interacted with outside organizations to develop model state plans for education reform and improvements. Continued to support the EPSCoR effort and activities related to the on-line program information system for university and other researchers. Assisted with required reports, technical studies, plans, and management activities designed to achieve needed improvement and upgrading of university research reactors and associated instrumentation and equipment. Supported undergraduate education efforts and efforts in evaluation.</p>	<p>TRANSFER: Staffing resources for these activities are transferred to the University and Science Education program in FY 1995.</p>	<p>No activity.</p>

III. Advisory and Oversight Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
Personnel Compensation (Cont'd)	<p>The Office of Environment, Safety, and Health (ES&amp;H) Technical Support provided ES&amp;H leadership and technical support to the Director of ER and the ER program offices. Responded to ES&amp;H directives, regulations, and other DOE, EPA, OSHA, NEPA requirements and Executive Orders. Served as the ER NEPA Compliance Officer and the ER principal contact for all incident notifications through the Emergency Operations Center (EOC). Upgraded safety documentation and technical safety requirements for facility operations, coordinated ES&amp;H training for ER staff, sponsored two semiannual ES&amp;H Coordination Meetings for Headquarters and field, implemented OSHA and quality assurance, conduct of operations and operational readiness review initiatives as well as new requirements for fire protection. Performed action item tracking, follow-up efforts, ES&amp;H data reviews for lessons learned, trend analyses, quality assurance and continuous improvement. Served as the Radiological Control Program Coordinator and ER's Pollution Prevention Coordinator. Assessed implementation of Corrective Action Plans. Implemented generic ES&amp;H activities: prepared annual 5-year ES&amp;H plan and quarterly Performance Indicator reports; managed occurrence reporting and incident reporting activities; and served as focal point for interactions on ES&amp;H Orders and standards and for responding to Defense Nuclear Facilities Safety Board (DNFSB) recommendations. Performed liaison and interaction activities with other Headquarters offices, Operations Offices and laboratories on ES&amp;H matters. Conducted NEPA training at</p>	<p>Provide 19 FTEs to continue to provide ES&amp;H leadership and technical support to the Director of ER and the ER program offices. Respond to ES&amp;H directives, regulations, and other DOE, EPA, OSHA, NEPA requirements and Executive Orders. Continue to serve as the ER NEPA Compliance Officer and the ER principal contact for all incident notifications through the EOC. Upgrade safety documentation and technical safety requirements for facility operations, sponsor semiannual ES&amp;H Coordination Meetings for Headquarters and field, implement OSHA conduct of operations, operational readiness reviews and quality assurance initiatives and fire protection requirements; and review implementation plans for new nuclear safety rules. Perform action item tracking, follow-up efforts, ES&amp;H data reviews for lessons learned, trend analyses, quality assurance and continuous improvement. Serve as the Radiological Control Program Coordinator and ER's Pollution Prevention Coordinator. Assess progress in implementing Compliance Action Plans. Implement generic ES&amp;H activities: prepare annual 5-year ES&amp;H plan and quarterly Performance Indicator Summary; manage occurrence reporting and incident reporting activities; manage ER emergency preparedness program; manage ER involvement in DOE standards programs; and serve as focal point for interactions on ES&amp;H Orders and standards and for responding to DNFSB recommendations. Prepare annual NEPA Program Summary and Report on Continuous Improvement. Manage major technical support services contract.</p>	<p>Provide 19 FTEs to continue to provide ES&amp;H leadership and technical support to the Director of ER and the ER program offices. Respond to ES&amp;H directives, regulations, and other DOE, EPA, OSHA, NEPA requirements and Executive Orders. Continue to serve as the ER NEPA Compliance Officer and the ER principal contact for all incident notifications through the EOC. Upgrade safety documentation and technical safety requirements for facility operations, sponsor semiannual ES&amp;H Coordination Meetings for Headquarters and field, implement OSHA conduct of operations, operational readiness reviews and quality assurance initiatives and fire protection requirements, and review implementation plans for new nuclear safety rules. Perform action item tracking, follow-up efforts, ES&amp;H data reviews for lessons learned, trend analyses, quality assurance and continuous improvement. Serve as the Radiological Control Program Coordinator and ER's Pollution Prevention Coordinator. Assess progress in implementing Compliance Action Plans. Implement generic ES&amp;H activities: prepare annual 5-year ES&amp;H plan and quarterly Performance Indicator Summary; manage occurrence reporting and incident reporting activities; manage ER emergency preparedness program; manage ER involvement in DOE standards programs; and serve as focal point for interactions on ES&amp;H Orders and standards and for responding to DNFSB recommendations. Prepare annual NEPA Program Summary and Report on Continuous Improvement. Manage major technical support services contract.</p>

III. Advisory and Oversight Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
Personnel Compensation (Cont'd)	<p>Operations Offices. Prepared second annual ER NEPA Program Summary and Report on Continuous Improvement in NEPA services and products.</p> <p>Provided program and management support in the areas of budget and finance, personnel administration, acquisition and assistance, policy review and coordination, information resources management, and construction management support. Also managed the previously ceiling-exempt special employment programs.</p> <p>Provided funds for personnel compensation for seven FTEs for the Office of SEAB, which was transferred to Human Resources and Administration in the 1993 DOE realignment.</p> <p style="text-align: right;">\$ 8,795</p>	<p>Provide 14 FTEs to continue to provide for a wide variety of program and management support and services to the ER staff as in FY 1994 and to continue to support the Department's special employment programs.</p> <p>TRANSFER: Staffing resources for these activities are transferred to Human Resources and Administration in FY 1995.</p> <p style="text-align: right;">\$ 7,849</p>	<p>Provide 14 FTEs to continue to provide for a wide variety of program and management support and services to the ER staff as in FY 1994 and FY 1995 and to continue to support the Department's special employment programs.</p> <p>No activity.</p> <p style="text-align: right;">\$ 6,216</p>
Personnel Benefits	<p>Funded civilian personnel benefits to cover the Civil Service Retirement and Disability Funds, Federal Employees Retirement System, health benefits and life insurance funds, permanent change of station expenses, and unemployment compensation.</p> <p style="text-align: right;">\$ 1,635</p>	<p>Fund civilian personnel benefits to cover the Civil Service Retirement and Disability Funds, Federal Employees Retirement System, health benefits and life insurance funds, permanent change of station expenses, and unemployment compensation.</p> <p style="text-align: right;">\$ 1,756</p>	<p>Fund civilian personnel benefits to cover the Civil Service Retirement and Disability Funds, Federal Employees Retirement System, health benefits and life insurance funds, permanent change of station expenses, and unemployment compensation.</p> <p style="text-align: right;">\$ 1,419</p>
Travel	<p>Provided funds for official domestic, international, and local travel. Fund transferee/new hire personnel for permanent change of station transportation.</p>	<p>Provide at a reduced level funds for official domestic, international, and local travel. Fund transferee/new hire personnel for permanent change of station transportation.</p>	<p>Provide at a reduced level funds for official domestic, international, and local travel. Fund transferee/new hire personnel for permanent change of station transportation. Reflects transfer to Technology Partnerships.</p>

III. Advisory and Oversight Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
Travel (Cont'd)	\$ 1,000	\$ 965	\$ 700
Contractual Services	<p>Provided a variety of program support such as printing and editing and contractual services, including, for example, support for ES&amp;H and security activities, timesharing on various information systems and communication networks; and Automated Office Support Systems (AOSS) workstations.</p>	<p>Provide at a reduced level a variety of program support such as printing and editing and contractual services, including, for example, support for ES&amp;H and security activities, timesharing on various information systems and communication networks; and Automated Office Support Systems (AOSS) workstations.</p>	<p>Provide at a reduced level a variety of program support such as printing and editing and contractual services, including, for example, support for ES&amp;H and security activities, timesharing on various information systems and communication networks; and Automated Office Support Systems (AOSS) workstations. Reflects transfer to Technology Partnerships.</p>
	\$ 1,959	\$ 1,880	\$ 1,445
Advisory and Oversight Program Direction	\$ 13,389	\$ 12,450	\$ 9,780



DEPARTMENT OF ENERGY  
FY 1996 CONGRESSIONAL BUDGET REQUEST  
GENERAL SCIENCE AND RESEARCH

OVERVIEW

GENERAL SCIENCE PROGRAM DIRECTION

This program provides the Federal staffing resources and associated funding to plan, direct, and manage a viable, high quality national program of basic research in the fields of high energy physics and nuclear physics in support of the Nation's goals to support basic scientific research and to maintain U.S. competitiveness. It supports the staff in the Office of the Associate Director for High Energy and Nuclear Physics, the High Energy Physics Division, the Nuclear Physics Division, and associated program and management support staff in the Headquarters. This program also provides program-specific staffing resources at the Chicago, Oakland, and Oak Ridge Operations Offices to support high energy and nuclear physics activities carried out by those offices.

The Department of Energy provides over 90 percent of the Federal support, and serves as the Executive Agent, for the Nation's High Energy Physics program. Over 85 percent of the total Federal support of basic nuclear physics research is provided through the Nuclear Physics program. The staff develop program plans and budgets and execute approved programs. They support, plan, and provide for construction, maintenance, and operation of the large facilities on which research in high energy physics and nuclear physics depends. They oversee the operation of large and complex accelerator facilities which are used by qualified physicists throughout the Nation, provide technical oversight of the high energy physics and nuclear physics research programs at 15 major laboratories and well over one hundred universities throughout the Nation, and interact with other Federal agencies. In carrying out these responsibilities, the staff funded by General Science Program Direction assess the basic research needs of these programs with the advice and assistance of the High Energy Physics Advisory Panel (HEPAP) and the DOE/NSF Nuclear Science Advisory Committee (NSAC), participate actively in their meetings, and provide program and administrative support for their operation. The staff work in close cooperation with the Oak Ridge Operations Office on Superconducting Super Collider (SSC) termination activities.

The staff also participate extensively in international collaboration and cooperative programs with Japan, Germany, CERN Laboratory (Geneva, Switzerland) member countries, China, the former Soviet Union, Spain, Italy, France, the Netherlands, and Canada.

Performance indicators are: efficiency and effectiveness of administrative and program activities, and effectiveness in support of departmental plans and policies.

**DEPARTMENT OF ENERGY  
 FY 1996 CONGRESSIONAL BUDGET REQUEST  
 GENERAL SCIENCE AND RESEARCH  
 (Tabular dollars in thousands, narrative in whole dollars)**

**LEAD TABLE**

**General Science Program Direction**

<u>Activity</u>	<u>FY 1994 Adjusted</u>	<u>FY 1995 Appropriation</u>	<u>FY 1995 Adjustment</u>	<u>FY 1995 Adjusted</u>	<u>FY 1996 Request</u>
<b>General Science Program</b>					
<b>Direction</b>					
Operating Expenses.....	\$9,000	\$10,400	\$0	\$10,400	\$10,900
<b>Total Program.....</b>	<b>\$9,000</b>	<b>\$10,400</b>	<b>\$0</b>	<b>\$10,400</b>	<b>\$10,900</b>
<b>Summary</b>					
Operating Expenses.....	\$9,000	\$10,400	\$0	\$10,400	\$10,900
<b>Total Program.....</b>	<b>\$9,000</b>	<b>\$10,400</b>	<b>\$0</b>	<b>\$10,400</b>	<b>\$10,900</b>
<b>Staffing (FTEs)</b>					
Headquarters.....	48	55	0	55	56
Field.....	27	33	0	33	33
<b>Total Program.....</b>	<b>75</b>	<b>88 a/</b>	<b>0</b>	<b>88</b>	<b>89</b>

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Authorization: P.L. 95-91, "Department of Energy Organization Act."

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a/ Revised request.

DEPARTMENT OF ENERGY  
FY 1996 CONGRESSIONAL BUDGET REQUEST  
GENERAL SCIENCE AND RESEARCH  
(Tabular dollars in thousands, narrative in whole dollars)

SUMMARY OF CHANGES

General Science Program Direction

FY 1995 Appropriation.....	\$ 10,400
- Adjustment.....	<u>0</u>
FY 1995 Adjusted.....	10,400
Personnel Compensation - Increase as a result of five additional full-time equivalents over the original FY 1995 budget, within-grade increases, and pay raises.....	+ 609
Personnel Benefits - increase commensurate with increased personnel compensation.....	+ 132
Contractual Services - reduced permanent change of station costs and administrative reductions.....	<u>- 241</u>
FY 1996 Congressional Budget Request.....	<u>\$ 10,900</u>

DEPARTMENT OF ENERGY  
 FY 1996 CONGRESSIONAL BUDGET REQUEST  
 GENERAL SCIENCE AND RESEARCH  
 (dollars in thousands)

KEY ACTIVITY SUMMARY

GENERAL SCIENCE PROGRAM DIRECTION

I. Preface: General Science Program Direction

This program provides the Federal staffing resources and associated funding to plan, direct, and manage a viable, high quality National program of basic research in the fields of high energy physics and nuclear physics to ensure U.S. competitiveness in basic research. It supports the staff in the Office of the Associate Director for High Energy and Nuclear Physics, the High Energy Physics Division, the Nuclear Physics Division, and associated program and management support staff both in the Headquarters and at Chicago, Oakland, and Oak Ridge Operations Offices. Performance indicators are: efficiency and effectiveness of administrative and program activities, and effectiveness in support of departmental plans and policies.

II. A. Summary Table: General Science Program Direction

Program Activity	FY 1994 Adjusted	FY 1995 Adjusted	FY 1996 Request	\$ Change
Personnel Compensation.....	\$ 5,215	\$ 6,150	\$ 6,759	\$ 609
Personnel Benefits.....	1,091	1,404	1,536	132
Travel.....	794	835	835	0
Contractual Services.....	1,900	2,011	1,770	-241
<b>Total, General Science Program Direction</b>	<b>\$ 9,000</b>	<b>\$ 10,400</b>	<b>\$ 10,900</b>	<b>\$ 500</b>

II. B. Laboratory and Facility Funding Table: General Science Program Direction

All Other .....	\$ 9,000	\$ 10,400	\$ 10,900	\$ 500
<b>Total, General Science Program Direction</b>	<b>\$ 9,000</b>	<b>\$ 10,400</b>	<b>\$ 10,900</b>	<b>\$ 500</b>

III. Activity Descriptions: (Budget Obligations in thousands of dollars)

Program Activity	FY 1994	FY 1995	FY 1996
General Science Program Direction			
Personnel Compensation	<p>Provided funds for personnel compensation for 75 full-time equivalents (FTEs) in the Office of High Energy and Nuclear Physics and for related program and management support staff at Headquarters and in the field. Includes, for example, regular salaries, lump sum payments for unused annual leave, premium pay, and employee incentive awards programs.</p>	<p>Provide funds for personnel compensation for 88 FTEs, an increase of 4 FTEs over the original FY 1995 budget as a result of internal redistribution to strengthen international activities. Includes, for example, regular salaries, lump sum payments for unused annual leave, premium pay, and employee incentive awards programs.</p>	<p>Provide funds for personnel compensation for 89 FTEs. Includes, for example, regular salaries, lump sum payments for unused annual leave, premium pay, and employee incentive awards programs. Provide for 5 FTEs over the original FY 1995 budget level, including one FTE for the Technical Leadership Development Program. Provide for pay increases resulting, for example, from normal within-grade increases and pay raises.</p>
	<p>The High Energy Physics staff provided continued oversight of the High Energy Physics program and of high energy accelerator centers at Brookhaven National Laboratory (BNL), Fermilab, and the Stanford Linear Accelerator Center (SLAC). Provided technical control and oversight for high energy physics research programs at nine major laboratories and managed more than 100 university research tasks. Provided ES&amp;H oversight of the large and complex High Energy Physics facilities and research capabilities. Monitored contract management oversight and accountability. Managed B-Factory activities. Maintained liaison with SSC termination activities and began to determine the best alternative utilization of valuable Government facilities and equipment. Continue to oversee experimental and theoretical research and test-bed exploration of very promising new advanced accelerator concepts. Maintained foreign liaison for conduct of experiments at foreign accelerators and for oversight of the L3 detector. Continued oversight of the Fermilab Main Injector project.</p>	<p>Provide continued oversight of the High Energy Physics Program. Continue physics research management and accountability and contract management oversight. Continue to oversee the safe management, efficient operation and strong utilization of the large and complex High Energy Physics facilities and research capabilities. Manage increased B-Factory activities. Continue liaison with SSC termination activities. Oversee experimental and theoretical research carried out by university based scientists and test-bed exploration of very promising new advanced accelerator concepts. Maintain foreign liaison for conduct of experiments at foreign accelerators, for oversight of the L3 detector, and increased participation with CERN member countries on the Large Hadron Collider (LHC). Continue oversight of the Fermilab Main Injector project.</p>	<p>Provide continued oversight of the High Energy Physics Program. Continue physics research management and accountability and contract management oversight. Continue to oversee the safe management, efficient operation and strong utilization of the large and complex High Energy Physics facilities and research capabilities, including support for increased facility operations. Manage B-Factory activities. Continue liaison with SSC termination activities. Oversee experimental and theoretical research carried out by university based scientists and test-bed exploration of very promising new advanced accelerator concepts. Maintain foreign liaison for conduct of experiments at foreign accelerators, for oversight of the L3 detector, and increased participation with CERN member countries on the Large Hadron Collider (LHC). Continue oversight of the Fermilab Main Injector project.</p>



III. General Science Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
Personnel Compensation (Cont'd)	<p>The Nuclear Physics staff provided technical oversight of the Nuclear Physics research programs at 12 national laboratories. Managed more than 150 active grants and numerous research proposals and provided technical and project management oversight for construction projects, including oversight of operational readiness reviews of the Continuous Electron Beam Accelerator Facility (CEBAF). Supported construction of the Relativistic Heavy Ion Collider (RHIC) at BNL, including support of university participation in detector design and fabrication, and major equipment projects, including Gammasphere and the joint U.S./Canadian SNO detector. Continued ES&amp;H oversight capability for the safe operation or phase-down of complex accelerator facilities, including the Clinton P. Anderson Meson Physics Facility (LAMPF). Continued to support the Nuclear Theory Institute. Continued to support ongoing R&amp;D programs at university facilities and oversee a significant university user experimental research program. Continued to manage the Nuclear Data program.</p> <p>Provided program and management support in the areas of budget and finance, personnel administration, acquisition and assistance, policy review and coordination, information resources management, and construction management support.</p>	<p>Provide continued oversight of the Nuclear Physics program. Continue oversight of international cooperative efforts in the Nuclear Physics program. Continue to oversee the safe operation or phase-down of complex accelerator facilities and completion of CEBAF construction and preparation for operations. Continue to support and oversee the Nuclear Theory Institute. Continue to support construction of RHIC and university participation in detector design and fabrication at RHIC. Continue to support ongoing R&amp;D programs at university facilities and oversee a significant university user experimental research program. Continue to manage the Nuclear Data program.</p> <p>Continue to provide program and management support as in FY 1994.</p>	<p>Provide continued oversight of the Nuclear Physics program. Continue oversight of international cooperative efforts in the Nuclear Physics program. Continue to oversee the safe operation or phase-down of complex accelerator facilities. Provide oversight of the CEBAF laboratory and operation of the accelerator for research. Continue to support and oversee the Nuclear Theory Institute. Continue to support construction of RHIC and university participation in detector design and fabrication at RHIC. Continue to support ongoing R&amp;D programs at university facilities and oversee a significant university user experimental research program. Continue to manage the Nuclear Data program.</p> <p>Continue to provide program and management support as in FY 1995.</p>

III. General Science Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
Personnel Compensation (Cont'd)	<p>Provided direct program support at Chicago Operations Office, including ES&amp;H and financial support at Batavia Area Office for oversight of Fermilab and at Brookhaven for RHIC project support.</p> <p>Provided to the Oak Ridge Operations Office on-site technical and administrative support for CEBAF.</p> <p>Provided direct program support at Oakland Operations Office for the Stanford Site Office. Supported B-Factory activities.</p>	<p>Provide additional direct program support at Chicago Operations Office, specifically at Batavia Area Office and in support of RHIC at Brookhaven Area Office.</p> <p>Provide to the Oak Ridge Operations Office on-site technical and administrative support for CEBAF.</p> <p>Continue to provide program staff support to Oakland Operations Office for the Stanford Site Office.</p>	<p>Continue to provide direct program support at Chicago Operations Office, at Batavia Area Office and in support of RHIC at Brookhaven Area Office.</p> <p>Continue to provide to the Oak Ridge Operations Office on-site technical and administrative support for CEBAF.</p> <p>Continue to provide program staff support to Oakland Operations Office for the Stanford Site Office.</p>
	\$ 5,215	\$ 6,150	\$ 6,759
	Personnel Benefits	<p>Funded civilian personnel benefits to cover the Civil Service Retirement and Disability Funds, Federal Employees Retirement System, health benefits and life insurance funds, permanent change of station expenses, and unemployment compensation.</p>	<p>Fund civilian personnel benefits to cover the Civil Service Retirement and Disability Funds, Federal Employees Retirement System, health benefits and life insurance funds, permanent change of station expenses, and unemployment compensation.</p>
	\$ 1,091	\$ 1,404	\$ 1,536
Travel	<p>Provided funds for official domestic, international, and local travel. Funded transferee/new hire personnel for permanent change of station transportation.</p>	<p>Provide funds for official domestic, international, and local travel. Fund transferee/new hire personnel for permanent change of station transportation.</p>	<p>Provide funds for official domestic, international, and local travel. Fund transferee/new hire personnel for permanent change of station transportation.</p>
	\$ 794	\$ 835	\$ 835

III. General Science Program Direction (Cont'd):

Program Activity	FY 1994	FY 1995	FY 1996
<b>Contractual Services</b> Provided a variety of program support such as printing and editing and contractual services, including, for example, ES&H support, relocation services, timesharing on various information systems and communication networks, Automated Office Support Systems (AOSS) workstations, and management support to the field offices.	\$ 1,900	\$ 2,011	\$ 1,770
<b>General Science Program Direction</b>	\$ 9,000	\$ 10,400	\$ 10,900