

DEPARTMENT OF ENERGY
FY 1995 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 and Science and Technology 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 Assessment and 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 Departmental realignment, are transferred in FY 1995 to the University and Science Education program.

This staff supports those activities which will remain in ER upon finalization of the Department's 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; and provide interagency coordination on science and technology developments. The Office of Space, which was abolished in the realignment with residual functions dispersed throughout ER, coordinated the Department's activities in support of its membership on the National Space Council and advised the Secretary on the use of outer space to achieve the Department's missions in energy, national security and science and technology. Staff comprising ER's Office of Assessment and Support are also budgeted under Advisory and Oversight Program Direction. These staff provide technical support to the Director of ER on all matters involving environment, safety and health (ES&H) 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.

This program supports those activities which 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. The staff also 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. 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.

During FY 1993 and 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 ER university and precollege science education and manpower development programs. These resources have been incorporated into the University and Science Education program for FY 1995.

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.

**DEPARTMENT OF ENERGY
 FY 1995 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 1993 Adjusted</u>	<u>FY 1994 Approp.</u>	<u>FY 1994 Adjustment</u>	<u>FY 1995 Request</u>
Energy Oversight, Research Analysis and University Support Advisory and Oversight Program Direction				
Operating Expenses.....	\$10,218 a/b/	\$13,800 b/	\$0	\$12,450
Staffing (FTEs).....	103 a/b/	144 b/c/	0	101

Authorization: Section 209, P.L. 95-91.

- a/ Excludes 11 FTEs and \$594,218 transferred in FY 1993 from Human Resources and Administration to Energy Research in the FY 1994 request.
- b/ Includes funding (\$675,000 in FY 1993 and \$700,000 in FY 1994) and FTEs (7 in FY 1993 and 6 in FY 1994) for the Office of the Secretary of Energy Advisory Board, which was transferred to Human Resources and Administration.
- c/ Revised request.

DEPARTMENT OF ENERGY
 FY 1995 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 1994 Appropriation.....	\$ 13,800
- Transfer - Adjustment for transfer of the Office of the Secretary of Energy Advisory Board to Human Resources and Administration.....	- 700
- Transfer - Adjustment for transfer of responsibility for science education programs to the Office of Science Education and Technical Information.....	<u>- 1,933</u>
FY 1994 Adjusted.....	11,167
- Increased personnel costs.....	<u>+ 1,283</u>
FY 1995 Congressional Budget Request.....	<u>\$ 12,450</u>

DEPARTMENT OF ENERGY
 FY 1995 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, and 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; developing and advising on crosscutting technology transfer and utilization issues; and managing the Department's enhanced technology transfer 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 Assessment and Support and related program and management support. Staff related to management of the science education activities is transferred in FY 1995 to the Office of Science Education and Technical Information and is budgeted in the University and Science Education 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.

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

Program Activity	FY 1993 Enacted	FY 1994 Enacted	FY 1995 Request	% Change
Advisory and Oversight Program Direction.....	\$ 9,543	\$ 13,100	\$ 12,450	- 5
Secretary of Energy Advisory Board.....	675	700	0	-100
Total, Advisory and Oversight Program Direction	\$ 10,218	\$ 13,800	\$ 12,450	- 10

III. Activity Descriptions: (New BA in thousands of dollars)

Program Activity	FY 1993	FY 1994	FY 1995
Advisory and Oversight Program Direction			
Advisory and Oversight Program Direction	<p>Provided funds for salaries, benefits, and travel for 96 full-time equivalents (FTEs) in the Offices which reported to the former Office of the Science and Technology Advisor (STA), the Office of Assessment and Support, and related program and management support staff. (\$8,158)</p> <p>TRANSFER: Funding for 11 FTEs, in addition to those above, involved in science education initiatives was contained in the Human Resources and Administration request for FY 1993.</p> <p>The staff of the Deputy Science and Technology Advisor for Civilian R&D, including 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. Performed technical assessments, independent peer reviews and program evaluations in support of DOE's research and development goals and science and technology issues. Supported DOE-wide strategic and long-range planning and technical analyses by preparing and organizing plans to integrate basic energy research programs and energy technology programs in the Department, and plans for research, development, and demonstration, and commercial application of energy technologies. Provided liaison to other Government science agencies and to technical societies. Monitored external science and technology developments relevant to DOE and advised on the balance and</p>	<p>Provide funds for salaries, benefits, and travel for a revised level of 138 FTEs, an increase of 18 FTEs over the FY 1994 budget. (\$11,175)</p> <p>Provide 28 FTEs to continue to provide 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. 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 funds for salaries, benefits, and travel for 101 FTEs. (\$10,647)</p> <p>Provide 26 FTEs to 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; 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>

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

Program Activity	FY 1993	FY 1994	FY 1995
Advisory and Oversight Program Direction (Cont'd)	<p>utilization of researchers in universities, industry and DOE laboratories. Supported the Lawrence and Fermi Awards process.</p> <p>Activities related to institutional planning, work for others (WFO), laboratory directed research and development (LDRD), and laboratory appraisal were expanded into uniform Department-wide management processes. Coordinated activities with other DOE programs, field offices, and laboratories, including independent analyses on institutional planning issues and a strengthened laboratory appraisal process for greater contractor accountability. Performed special projects; participated in task forces; and supported expanded issue-oriented quarterly laboratory directors meetings, an annual laboratory planning meeting with the Secretary and Program Secretarial Officers, and ER laboratory director meetings.</p> <p>The technology transfer staff developed uniform Department-wide management processes for spinoff technology transfer activities. Participated in DOE strategic planning and managed cooperative research and development agreements (CRADAs) between ER laboratories and industry. Planned, implemented, and evaluated the ER laboratory technology transfer (LTT) program, including designing criteria for government/industry consortia spinoff partnerships; managing the American Textiles Consortium (AMTEX) partnership; and began development and performance of technology transfer evaluation activities. Represented the</p>	<p>Provide 8 FTEs to continue to manage uniform DOE-wide processes for continuous improvement of institutional planning, WFO, LDRD, and laboratory appraisal. Ensure continuous improvement of independent analyses on institutional planning issues and 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, to ensure effective issue resolution and follow-up on all action decisions. Continue to support ER laboratory director meetings.</p> <p>Provide six FTEs to continue to implement the ER laboratory technology transfer program, including designing criteria for government/industry partnerships; managing the AMTEX partnership; and development of and performance of technology transfer evaluation activities. Continue to represent the ER laboratory technology transfer program at an increased number of outreach conferences.</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, including processes for continuous improvement of institutional planning, WFO, LDRD, and laboratory appraisal. 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, to ensure effective issue resolution and follow-up on all action decisions. Continue to support ER laboratory director meetings.</p> <p>Provide six FTEs to continue to plan and implement the expanded ER Laboratory Technology Transfer Program. Manage the increased number of spinoff CRADAs, personnel exchanges, and other individual collaborations; manage the AMTEX partnership involving all DOE laboratories, multiple DOE program offices, and several Federal agencies; participate in DOE's other major industry partnerships; represent ER in all internal DOE and interagency technology transfer initiatives. Continue to manage expanded programs at Industrial Collaboration Centers at the Energy Research laboratories. Expand evaluation activities to include</p>

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

Program Activity	FY 1993	FY 1994	FY 1995
Advisory and Oversight Program Direction (Cont'd)	<p>program at outreach conferences.</p> <p>The former Office of Technology Utilization provided advice on Department-wide technology transfer and utilization. Increased efforts to implement and expand on the technology utilization function. Provided management and staff support for the Department's enhanced technology transfer and utilization activities. Provided oversight of the transfer of the results of the Department's research and development activities to commercial use, and developed a limited Department-wide technology transfer awareness program and a tracking system for following the progress of specific technology transfer actions. Planned and initiated a limited DOE outreach program.</p>	<p>Provide 16 FTEs, an increase of one over the FY 1994 budget, to continue to implement the technology utilization function and to support the Energy Policy Act of 1992, including using joint ventures and extending DOE/industry cooperation. Support ongoing DOE task force efforts and interagency technology transfer efforts. Apply the Freedom of Information Act exemptions of Stevenson-Wydler to all DOE technology transfer agreements. Support establishment of effective linkages with the technology transfer offices of state and local governments, industry associations, colleges and universities. Manage and evaluate DOE's enhanced technology transfer program. Plan, organize, implement and evaluate a comprehensive DOE-wide outreach strategy. Continue to oversee transfer of the results of DOE's research activities to commercial use. Provide policy 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. Plan, coordinate and support the Technology Transfer Committee and its working</p>	<p>additional technology transfer responsibilities. Increase oversight of the new block funding 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.</p> <p>Provide 15 FTEs to continue to support implementation of the technology utilization function at a reduced level of effort. Support the Energy Policy Act of 1992, including using joint ventures and extending DOE/industry cooperation to include commercial application. Continue to support ongoing DOE task force efforts and interagency technology transfer efforts. Continue to apply the Freedom of Information Act exemptions of Stevenson-Wydler to all DOE technology transfer agreements. Continue to provide liaison with state and local governments, industry associations, colleges and universities. Manage and evaluate DOE's enhanced technology transfer program. Plan, organize, implement and evaluate a comprehensive DOE-wide outreach strategy. Measure performance and impacts of the transfer of the results of DOE's research activities to commercial use. Provide policy 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. Plan, coordinate and support the Technology Transfer Committee and its working groups and subcommittees.</p>

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

Program Activity	FY 1993	FY 1994	FY 1995
Advisory and Oversight Program Direction (Cont'd)	<p>The infrastructure resource management staff managed the General Purpose Facilities (GPF) subprogram and the Tiger Team Remediations (ES&H) subprogram, under the Multiprogram Energy Laboratories-Facilities Support (MEL-FS) program, to ensure improved infrastructure and compliance with ES&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, GPP, and GPE funding levels, and the plan for an Inactive and Surplus Facilities program for ER. Initiated landlord oversight responsibilities for ER multiprogram laboratories. Began preparation of a Facilities Support Plan for multiprogram energy laboratories per the Energy Policy Act of 1992. Conducted ES&H Corrective Action Plan reviews of Oak Ridge National Laboratory (ORNL) and Lawrence Berkeley Laboratory (LBL).</p>	<p>groups and subcommittees. Develop and evaluate training and performance measurements. Complete crosscutting studies. Monitor and ensure compliance of the CRADA approval process with statutory provisions.</p> <p>Provide eight FTEs to carry out enhanced effort on the MEL-FS program including implementing the new Inactive and Surplus Facilities subprogram and managing the GPP and GPE funding for Oak Ridge National Laboratory (ORNL) and Oak Ridge Institute for Science and Education (ORISE). Prepare policy and plans to implement requirements of the Energy Policy Act of 1992. Continue review of Corrective Action Plan implementation by multiprogram energy laboratories and enhance landlord oversight activities.</p>	<p>Develop and evaluate training and performance measurements. Complete crosscutting studies. Monitor and ensure compliance of the CRADA approval process with statutory provisions.</p> <p>Provide eight FTEs to continue to manage the MEL-FS program. Review and recommend approval of GPP projects above \$1,000,000 and manage landlord funding for ORNL and ORISE. Carry out the MEL-FS program including implementing the new 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 Corrective Action Plan implementation by multiprogram energy laboratories and enhance landlord oversight activities.</p>

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

Program Activity	FY 1993	FY 1994	FY 1995
Advisory and Oversight Program Direction (Cont'd)	<p>The Office of Space advised the Secretary and the Department on the use of outer space to carry out the Department's missions in energy, national security and science and technology; formulating and overseeing the implementation of space policies and strategies and managing assigned space-related activities of the Department. This office was abolished in the Departmental realignment.</p>	<p>Provide three FTEs pending completion of reassignment of remaining space functions and staff. This is a reduction of four FTEs from the FY 1994 budget.</p>	<p>Provide three FTEs pending completion of reassignment of remaining space functions and staff.</p>
	<p>The newly established Office of Science Education and Technical Information supported the Department's math, science, engineering, and technology education activities. Supported activities at the seven designated Science Education Centers and other DOE facilities in support of the National Education Goals. Supported increased efforts 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 aimed at increasing the number of underrepresented minorities and women participating in a variety of activities supported by the Department. Interacted with outside organizations to develop model state plans for education reform and improvements. Supported EPSCoR effort and activities related to the on-line program information system for university and other researchers. Supported new program activities related to undergraduate education including developing greater research capability at predominantly undergraduate institutions through laboratory/student</p>	<p>Provide 27 FTES, an increase of six over the FY 1994 budget, to staff the new Office and continue to support the Department's math, science, engineering, and technology education activities. Continue to support activities at the seven designated Science Education Centers and other DOE facilities in support of the National Education Goals. Continue to support priorities in public science literacy as well as other precollege and undergraduate programmatic areas. Continue to support 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. Interact with outside organizations to develop model state plans for education reform and improvements. Continue to support the EPSCoR effort and activities related to the on-line program information system for university and other researchers. Assist 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.</p>	<p>TRANSFER: Staffing resources for these activities are transferred to the University and Science Education program in FY 1995.</p>

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

Program Activity	FY 1993	FY 1994	FY 1995
Advisory and Oversight Program Direction (Cont'd)	<p>research.</p> <p>The Office of Assessment and Support provided ES&H technical support to the Director of ER and the ER program offices, e.g., independent review of the Tokamak Fusion Test Reactor safety report and accelerator readiness reviews. Ensured compliance with ES&H directives, regulations, and other DOE, EPA, OSHA, and NEPA requirements. Upgraded safety documentation and technical safety requirements for facility operations, provided ES&H training for ER staff, implemented OSHA quality assurance and pollution prevention initiatives as well as new requirements for fire protection. Implemented generic ES&H activities: prepared annual 5-year ES&H plan and quarterly Performance Indicator reports; managed ER emergency preparedness planning program; managed occurrence reporting and incident reporting activities; and served as focal point for interactions on ES&H Orders and review of ES&H policy, rules, regulations, standards, and guidance. Reviewed site environmental compliance reports, environmental implementation plans, and environmental management programs. Established ER-wide ES&H action tracking system and conducted trending analyses of ER ES&H initiatives. Served as the ER Radiological Control Program Coordinator in ensuring that the Secretary's Radiological Control Manual is fully implemented. Assessed site progress in implementing Corrective Action Plans, and performed extensive liaison and interaction activities, as</p>	<p>Continue to support undergraduate education efforts and efforts in evaluation.</p> <p>Provide 19 FTEs to continue to provide ES&H technical support to the Director of ER and the ER program offices. Respond to ES&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 Emergency Operations Center (EOC). Upgrade safety documentation and technical safety requirements for facility operations, coordinate ES&H training for ER staff, implement OSHA and quality assurance, conduct of operations and operational readiness review initiatives as well as new requirements for fire protection. Perform action item tracking, follow-up efforts, ES&H data reviews for lessons learned, and trend analyses. Continue to serve as the Radiological Control Program Coordinator and ER's Pollution Prevention Coordinator. Assess implementation of Corrective Action Plans. Implement generic ES&H activities: prepare annual 5-year ES&H plan and quarterly Performance Indicator reports; manage occurrence reporting and incident reporting activities; and serve as focal point for interactions on ES&H Orders and standards and for responding to Defense Nuclear Facilities Safety Board (DNFSB) recommendations. Perform liaison and interaction activities with Operations Offices and laboratories on ES&H matters.</p>	<p>Provide 19 FTEs to continue to provide ES&H technical support to the Director of ER and the ER program offices. Respond to ES&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, implement OSHA conduct of operations, operational readiness reviews and quality assurance initiatives and fire protection requirements. Perform action item tracking, follow-up efforts, ES&H data reviews for lessons learned, and trend analyses. Serve as the Radiological Control Program Coordinator and ER's Pollution Prevention Coordinator. Assess progress in implementing Compliance Action Plans. Implement generic ES&H activities: prepare annual 5-year ES&H plan and quarterly Performance Indicator reports; manage occurrence reporting and incident reporting activities; and serve as focal point for interactions on ES&H Orders and standards and for responding to DNFSB recommendations.</p>

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

Program Activity	FY 1993	FY 1994	FY 1995
Advisory and Oversight Program Direction (Cont'd)	<p>well as monitored ES&H activities at ER assigned field offices.</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>Provided program support such as printing, timesharing on various information systems and communications networks and contractual support, for example, for ES&H, security, and technology utilization and transfer. Provided for Automated Office Support Systems (AOSS) workstations. (\$1,385)</p>	<p>Provide 23 FTEs, an increase of 15 over the FY 1994 budget. Continue to provide for a wide variety of program and management support and services to the ER staff as in FY 1993. Provide additional resources for the previously ceiling-exempt special employment programs, Departmental intern program, and to reflect an internal Energy Research FTE redistribution.</p> <p>Continue the variety of program support provided in FY 1993. Provide increased support for additional staff, including relocation expenses. (\$1,925)</p>	<p>Provide 16 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>Continue at a reduced level the variety of program support provided in FY 1993 and FY 1994. (\$1,803)</p>
	\$ 9,543	\$ 13,100	\$ 12,450
Secretary of Energy Advisory Board	<p>Provided funds for salaries, benefits, travel, and miscellaneous support for seven FTEs related to the Office of SEAB responsibilities for long-range planning and decisionmaking. (\$675)</p>	<p>Provide funds for salaries, benefits, travel, and other support related to six FTEs for the Office of SEAB, which was transferred to Human Resources and Administration in the DOE realignment. (\$700)</p>	<p>TRANSFER: Staffing resources for these activities are transferred to Human Resources and Administration in FY 1995.</p>
	\$ 675	\$ 700	\$ 0
Advisory and Oversight Program Direction	\$ 10,218	\$ 13,800	\$ 12,450

DEPARTMENT OF ENERGY
FY 1995 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, San Francisco, 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 Office of Superconducting Super Collider (OSSC) and the Oak Ridge Operations Office on SSC termination activities, since the SSC is an integral part of the High Energy Physics program.

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 1995 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 1993 Adjusted</u>	<u>FY 1994 Approp.</u>	<u>FY 1994 Adjustment</u>	<u>FY 1995 Request</u>
General Science Program Direction				
Operating Expenses.....	\$8,300	\$9,000	\$0	\$10,400
Staffing (FTEs)				
Headquarters.....	47	53	0	51
Field.....	27	29	0	33
TOTAL.....	<u>74</u>	<u>82</u> <i>a/</i>	<u>0</u>	<u>84</u>

Authorization: P.L. 95-91, "Department of Energy Organization Act" (1977)

a/ Revised request.

DEPARTMENT OF ENERGY
FY 1995 CONGRESSIONAL BUDGET REQUEST
GENERAL SCIENCE AND RESEARCH
(Tabular dollars in thousands, narrative in whole dollars)

SUMMARY OF CHANGES

General Science Program Direction

FY 1994 Appropriation.....	\$ 9,000
- Adjustments.....	<u>0</u>
FY 1994 Adjusted.....	9,000
- Increased personnel costs for pay increases and 10 additional FTEs over the FY 1994 budget level.....	<u>+ 1,400</u>
FY 1995 Congressional Budget Request.....	<u>\$ 10,400</u>

DEPARTMENT OF ENERGY
 FY 1995 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, San Francisco, 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 1993 Enacted	FY 1994 Enacted	FY 1995 Request	% Change
General Science Program Direction.....	\$ 8,300	\$ 9,000	\$ 10,400	+ 16
Total, General Science Program Direction	\$ 8,300	\$ 9,000	\$ 10,400	+ 16

III. Activity Descriptions: (New BA in thousands of dollars)

Program Activity	FY 1993	FY 1994	FY 1995
General Science Program Direction	<p>Provided funds for salaries, benefits, and travel for 74 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. (\$5,890)</p>	<p>Provide funds for salaries, benefits, and travel for a revised level of 82 FTEs, an increase of eight over the FY 1994 budget. (\$7,140)</p>	<p>Provide funds for salaries, benefits, and travel for 84 FTEs. Provide for ten additional FTEs over the FY 1994 budget level, eight of which are also required in FY 1994, and pay increases resulting, for example, from locality pay and normal within-grade increases. (\$8,651)</p>
	<p>The High Energy Physics staff provided continued oversight of the High Energy Physics program, excluding primary responsibility for SSC construction, 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. Monitored activities at the SSC Laboratory. Provided ES&H oversight of the large and complex High Energy Physics facilities and research capabilities. Monitored experimental and theoretical research carried out by university based scientists 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 program management and oversight of the High Energy Physics Program with an increase of one FTE over the FY 1994 budget level. 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. Maintain liaison with SSC termination activities and determine 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. Maintain foreign liaison for conduct of experiments at foreign accelerators and for oversight of the L3 detector. Continue oversight of the Fermilab Main Injector project.</p>	<p>Provide continued oversight of the High Energy Physics Program at the revised FY 1994 level with one additional FTE over the FY 1994 budget. 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 and for oversight of the L3 detector. Continue oversight of the Fermilab Main Injector project.</p>

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

Program Activity	FY 1993	FY 1994	FY 1995
General Science Program Direction (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 the Continuous Electron Beam Accelerator Facility (CEBAF) and the Relativistic Heavy Ion Collider (RHIC) at BNL, and major equipment projects, including Gammasphere and the joint U.S./Canadian SNO detector. Continued ES&H oversight capability, particularly with regard to operations of accelerator facilities and the construction of CEBAF and RHIC. Managed preparation of facilities, including the Fast Neutron Generator and Bevalac, to put them in a safe standby mode, prior to turning them over to Environmental Restoration and Waste Management (EM) for decontamination and decommissioning. Monitored international cooperative efforts in the Nuclear Physics program. Supported the Nuclear Theory Institute. Managed university participation in detector design and fabrication at RHIC and CEBAF. Continued to oversee a significant university user experimental research program. Managed 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, 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, including the Clinton P. Anderson Meson Physics Facility (LAMPF), and oversee operational readiness reviews of the CEBAF laboratory. Continue to support 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&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 1993, with an increase of five over the FY 1994 budget to reflect an internal Energy Research redistribution and to support Departmental interns.</p>	<p>Provide continued oversight of the Nuclear Physics program at the FY 1994 budget level. Continue oversight of international cooperative efforts in the Nuclear Physics program. Continue to oversee the safe operation or phase-down of complex accelerator facilities, including the Clinton P. Anderson Meson Physics Facility (LAMPF), and oversee 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&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 with a reduction of two FTEs from the revised FY 1994 level and a net increase of three FTEs over the FY 1994 budget.</p>

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

Program Activity	FY 1993	FY 1994	FY 1995
General Science Program Direction (Cont'd)	Provided direct program support at Chicago Operations Office, specifically at Batavia Area Office for oversight of Fermilab, and at Brookhaven for oversight of the RHIC project.	Continue to provide direct program support at Chicago Operations Office, including ES&H and financial support at Batavia and RHIC project control at Brookhaven.	Provide four additional FTEs for direct program support at Chicago Operations Office, specifically two at Batavia Area Office and two in support of RHIC at Brookhaven Area Office. Reflect Departmental emphasis on execution of programs in the field.
	Provided to the Oak Ridge Operations Office on-site technical and administrative support for CEBAF.	Continue to provide to the Oak Ridge Operations Office on-site technical and administrative support for CEBAF.	Provide to the Oak Ridge Operations Office on-site technical and administrative support for CEBAF at the level included in the FY 1994 budget.
	Provided program support to San Francisco Operations Office for the Stanford Site Office.	Provide two additional FTEs for direct program support at San Francisco Operations Office. Increased effort required to support B-Factory.	Continue to provide program staff support to San Francisco Operations Office for the Stanford Site Office at the revised FY 1994 level with two additional FTEs over the FY 1994 budget.
	Provided a wide variety of program and contractual support to both HQ and the field such as printing, Automated Office Support Systems (AOSS) workstations, and contractual support such as ES&H. (\$2,410)	Continue at a reduced level the variety of contractual support required in FY 1993. (\$1,860)	Continue at a reduced level the variety of contractual support required in FY 1994. (\$1,749)
	\$ 8,300	\$ 9,000	\$ 10,400
General Science Program Direction	\$ 8,300	\$ 9,000	\$ 10,400