

DEPARTMENT OF ENERGY  
FY 1993 CONGRESSIONAL BUDGET REQUEST  
ENERGY SUPPLY, RESEARCH AND DEVELOPMENT

OVERVIEW

ADVISORY AND OVERSIGHT PROGRAM DIRECTION

This program provides the staffing resources and associated funding required by the Director of Energy Research/Science and Technology Advisor to carry out his 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. The Science and Technology Advisor organization was established by the Secretary to strengthen the Director of Energy Research's capability for carrying out his statutory responsibilities for providing advice and analyses to the Secretary on science and technology policy issues and for carrying out other initiatives established by the Secretary. The program supports the staff in the Office of the Science and Technology Advisor established under SEN-33-91, as amended, and five subordinate organizations. These include the Deputy Science and Technology Advisor (DSTA) for Civilian Research and Development, the DSTA for Civilian Laboratories, the Director of Technology Utilization, the Office of Space, and the Office of University and Science Education Programs. It also supports the Office of Assessment and Support, the Office of the Secretary of Energy Advisory Board (SEAB), and related program and management support staff.

The DSTA for Civilian Research and Development provides the Secretary with scientific and technical advice on DOE research and development projects, programs, plans and policies. Staff conduct independent technical assessments, peer reviews and program evaluations of specific programs and projects and provide interagency coordination on science and technology developments. The DSTA for Civilian Laboratories assesses the overall strength and vitality of the multiprogram laboratory system. Staff develop and coordinate Departmental policy and monitor its implementation in such areas as strategic and institutional planning for multiprogram laboratories, laboratory appraisals, work by the laboratories for non-DOE sponsors, and laboratory-directed research and development. The Director of Technology Utilization develops and advises the Science and Technology Advisor on technology transfer and utilization policies which cut across program lines; manages the Department's enhanced technology transfer program; and provides tools and training and conducts outreach activities for the Department's technology transfer efforts. The Office of University and Science Education Programs supports 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. The Office of Space coordinates the Department's activities in support of its membership on the National Space Council. Staff advise the Secretary on the use of outer space to achieve the Department's missions in energy, national security and science and technology; coordinate the formulation of space policies and strategies and long-range plans and budgets; and maintain liaison with domestic and foreign agencies involved in space activities.

Staff comprising ER's Office of Assessment and Support are also budgeted under Advisory and Oversight Program Direction. These staff provide independent advice and assessments to the Director of ER/STA 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 also provides the staffing resources and associated funding required to support the SEAB. The SEAB is responsible for conducting a series of studies and providing impartial technical expertise to the Office of the Secretary as required for Departmental planning and decisionmaking.

**DEPARTMENT OF ENERGY  
 FY 1993 CONGRESSIONAL BUDGET REQUEST  
 ENERGY SUPPLY, RESEARCH AND DEVELOPMENT  
 (dollars in thousands)**

**LEAD TABLE**

**Advisory and Oversight Program Direction**

<u>Activity</u>	<u>FY 1991 Enacted</u>	<u>FY 1992 Enacted</u>	<u>FY 1993 Base</u>	<u>FY 1993 Request</u>	<u>Program Change Request vs Base</u>	
					<u>Dollar</u>	<u>Percent</u>
Energy Oversight, Research Analysis and University Support Advisory and Oversight Program Direction						
Operating Expenses.....	\$4,225 a/	\$10,100	\$16,218	\$16,218	--	--
Staffing (FTEs).....	56 b/	96 c/d/	100	100 d/		

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

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- a/ Total has been reduced by sequester of \$54 in accordance with Senate Report 101-378.
- b/ Includes six FTEs in the Office of the Secretary of Energy Advisory Board (SEAB).
- c/ Revised request.
- d/ Includes 13 FTEs for SEAB in FY 1992 and FY 1993.

DEPARTMENT OF ENERGY  
FY 1993 CONGRESSIONAL BUDGET REQUEST  
ENERGY SUPPLY, RESEARCH AND DEVELOPMENT  
(dollars in thousands)

SUMMARY OF CHANGES

Advisory and Oversight Program Direction

FY 1992 Appropriation.....	\$ 10,100
- Adjustments - Increased personnel costs for the general pay raise, normal within-grade and merit increases, and the additional staff for the Science and Technology Advisor...	<u>+ 6,118</u>
FY 1993 Base and Congressional Budget Request.....	\$ 16,218

DEPARTMENT OF ENERGY  
 FY 1993 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 by the Director of Energy Research/Science and Technology Advisor to carry out his 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. It also provides the staffing and associated funding resources required by the Office of Assessment and Support and the Office of the Secretary of Energy Advisory Board.

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

Program Activity	FY 1991 Enacted	FY 1992 Enacted	FY 1993 Request	% Change
Advisory and Oversight Program Direction.....	\$ 4,225	\$ 8,575	\$ 14,618	+ 70
Secretary of Energy Advisory Board.....	0	1,525	1,600	+ 5
 Total, Advisory and Oversight Program Direction	 \$ 4,225	 \$ 10,100	 \$ 16,218	 + 61

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

Program Activity	FY 1991	FY 1992	FY 1993
Advisory and Oversight Program Direction	<p>Provided funds for salaries, benefits, and travel to support 50 full-time equivalents (FTEs) in the Office of Field Operations Management, Office of University and Science Education Programs, Office of Program Analysis, Science and Technology Affairs Staff, Office of Assessment and Support, and related program and management support staff. (\$4,070)</p>	<p>Provide funds for salaries, benefits, and travel related to 61 FTEs included in the FY 1992 budget. A revised request for 22 additional FTEs is discussed below. (\$5,780)</p>	<p>Provide funds for salaries, benefits, and travel for 87 FTEs. Provide for an increase of 26 FTEs above the FY 1992 budget as discussed below. Twenty-two of these 26 FTEs are also required in FY 1992. Also provide for normal increased personnel costs as a result, for example, of a general pay raise and within-grade and merit increases. (\$8,628)</p>
Advisory and Oversight Program Direction	<p>No activity.</p>	<p>Provide two additional FTEs above the FY 1992 budget to staff the newly established Office of the Deputy Science and Technology Advisor (DSTA) for Civilian R&amp;D. Provide for the Deputy and a secretary in accordance with SEN-33-91 to strengthen and comply with statutory requirements to advise the Secretary of Energy on matters relating to the Department's research and development programs.</p>	<p>Provide four additional FTEs, two of which are also required and discussed in FY 1992, to staff the new Office of the DSTA for Civilian R&amp;D to strengthen implementation of the Director of Energy Research's statutory requirements in accordance with SEN-33-91.</p>
Advisory and Oversight Program Direction	<p>The Office of Program Analysis provided technical assessments, independent peer reviews and program evaluations in support of DOE's research and development goals and supported increased workload on environmental issues.</p>	<p>Reporting to the new DSTA for Civilian R&amp;D as a result of SEN-33-91, continue to perform technical assessments, independent peer reviews and program evaluations as in FY 1991 to advise on science and technology issues of the Department.</p>	<p>Continue to perform technical assessments, independent peer reviews and program evaluations as in FY 1992 in support of the expanded ER responsibility for science and technology advice under SEN-33-91.</p>

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

Program Activity	FY 1991	FY 1992	FY 1993
Advisory and Oversight Program Direction (Cont'd)	<p>The Science and Technology Affairs Staff continued to support the Director of ER in his science advisory role. Supported the Director in expanded R&amp;D planning activities for ER and the NES. Continued to support the Lawrence and Fermi Awards process.</p>	<p>Reporting to the new DSTA for Civilian R&amp;D as a result of the SEN-33-91, staff will prepare and organize energy R&amp;D plans, review DOE energy program plans, and coordinate ER research with energy technology programs. Continue to support the Lawrence and Fermi Awards process.</p>	<p>Continue to provide strategic and long-range planning, technical analysis, and liaison support for the Science and Technology Advisor. Identify and monitor external science and technology developments relevant to DOE and advise on the balance and utilization of researchers in universities, industry, and DOE laboratories. Continue to support the Lawrence and Fermi Awards process.</p>
	<p>The newly established Office of University and Science Education Programs supported increased activities related to science education including increased interactions with DOE's adopted school, Woodrow Wilson High School. Supported new science education initiatives involving mathematics enrichment, museum-based science education, and graduate support in selected energy-related fields including nuclear engineering. Supported the new Congressionally-directed Experimental Program to Stimulate Comprehensive Research (EPSCoR). Continued program management in support of the National goal to maintain U.S. competitiveness through education and development of human resources. Continued to support Laboratory Cooperative Science Centers Program, precollege teacher/student research appointments and new initiatives at DOE laboratories targeted at minorities and women and partnerships with other Federal agencies and the private sector. Overviewed programs to increase precollege and college educational opportunities, particularly for women and minorities. Continued to support interagency meetings related to science education involving NSF, Department of</p>	<p>Continue to support expanded science education initiatives including the development and initiation of collaborative science education activities involving other Federal agencies and private industry. Also manage education outreach efforts, the University and Science Education program, and the expanded education program in support of the initiatives from the Berkeley Math/Science Education Action Conference, the Charlottesville Education Summit Goals, and the Administration's "America 2000" education strategy. This will include public science literacy programs, science teacher initiatives, museum-based and mathematics education programs. Continue to support the Laboratory Cooperative Science Centers Program and precollege teacher/student research appointments and new initiatives at DOE laboratories targeted at minorities and women with emphasis on partnerships to improve science education in inner-city and rural school systems. Provide follow-up support for EPSCoR and university nuclear engineering awards. Overview programs to increase precollege and college educational opportunities, including women and minorities. Continue interagency</p>	<p>Provide one additional FTE to continue to support the Department's math/science education activities. Continue to support activities related to science education at the seven designated Science Education Centers and other DOE facilities which are being undertaken as a result of the National Education Goals and the Secretary's Berkeley Math/Science Education Action Conference. Under the FCCSET Committee on Education and Human Resources (CEHR) priorities, support increased efforts in public science literacy as well as other precollege and undergraduate programmatic areas. Continue to support public/private sector collaborations, science teacher 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. Meet demands resulting from the Congressionally-directed EPSCoR effort and activities related to the on-line program information system for university and other researchers. Support new program activities related to undergraduate education including, but not limited to, developing greater research capability at predominantly</p>

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

Program Activity	FY 1991	FY 1992	FY 1993
Advisory and Oversight Program Direction (Cont'd)	<p>Education, and all major mission agencies.</p> <p>The Office of Field Operations Management continued to develop and implement the laboratory management program. Supported the Director in oversight of DOE's multiprogram nonweapons laboratories. Managed the MEL-FS program, including improved facilities management and expanded oversight of facility rehabilitation projects. Managed the R&amp;D laboratory technology transfer program as part of the National economic competitiveness initiative. Managed the institutional planning process; analyzed institutional planning issues; supported the SEAB review of DOE laboratories and their missions; and performed special projects. Continued to oversee the laboratory appraisal process, the laboratory-directed research and development process, and work for others activities at ER laboratories. Supported the expanded activities related to quarterly meetings with directors of major DOE laboratories.</p>	<p>liaison on education efforts. Develop and manage new precollege science education initiatives using state-of-the-art instructional technology.</p> <p>Provide two additional FTEs, not included in the FY 1992 budget, for the expanded activities of the new Office of the Deputy Science and Technology Advisor (DSTA) for Civilian Laboratories. The Office of Field Operations Management has been reassigned to the Office of the DSTA for Civilian Laboratories in accordance with SEN-33-91. Continue program management as in FY 1991 and implement expanded laboratory management responsibilities under the Office of the Science and Technology Advisor. Continue to provide contractor oversight, technology transfer, and nondefense facility revitalization activities. Expand institutional planning to all ER laboratories and make the process an integral part of DOE strategic planning. Support workload related to oversight of work for others, laboratory-directed research and development, and appraisals of laboratories. Implement the National Competitiveness Technology Transfer Act of 1989 at ER laboratories, including cooperative research and development agreements with the private sector and oversight of laboratories' compliance with fairness of opportunity and conflict of interest standards. Continue to manage the MEL-FS program and ES&amp;H (tiger team) remediation program in support of improved infrastructure and good business management practices at ER laboratories. Continue to support</p>	<p>undergraduate institutions through laboratory/student research, and instructional technology efforts at both the undergraduate and precollege levels.</p> <p>Provide two additional FTEs, which are also required in FY 1992, to support the DSTA for Civilian Laboratories under SEN-33.91. Continue institutional planning, work-for others, laboratory-directed R&amp;D, laboratory appraisal, and technology transfer activities. Participate in DOE strategic planning and management of cooperative R&amp;D agreements between laboratories and industry. Coordinate STA activities with other DOE programs, field offices, and laboratories for independent analyses on institutional planning issues, to strengthen the laboratory appraisal process for greater contractor accountability, and to implement the ER laboratory technology transfer program in accordance with OSTP, NES, and National Competitiveness Technology Transfer Act requirements. Staff effort on MEL-FS and ES&amp;H (tiger team) remediation program activities in support of improved infrastructure and good business management practices at ER laboratories will also continue. Continue to perform special projects, participate in task forces, and support quarterly laboratory directors meetings with the Secretary, and ER laboratory director meetings with ER.</p>

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

Program Activity	FY 1991	FY 1992	FY 1993
Advisory and Oversight Program Direction (Cont'd)	No activity.	<p>special projects including special crosscuts for the Secretary and Task Forces involving laboratory management and technology transfer. Support the quarterly laboratory directors meetings.</p> <p>Provide six FTEs, not included in the FY 1992 budget, to establish a new, centralized Director of Technology Utilization (DTU) in accordance with SEN-33-91. Staff advise the Science and Technology Advisor on technology transfer and utilization; manage the Department's enhanced technology transfer program; oversee the transfer of the results of the Department's research and development activities to commercial use; develop the tools and training required for technology commercialization; conduct outreach activities for the Department; and conduct independent assessments of laboratory cooperative research and development agreement (CRADA) guidelines and allowance.</p>	<p>Provide seven FTEs above the FY 1992 budget, including six also required in FY 1992, to implement the DTU function required by SEN-33-91. Provide management, staff, and clerical support for DTU's technology transfer and utilization policy activities. Continue to expand on activities initiated in FY 1992, including advising the Science and Technology Advisor on technology transfer and utilization; managing the Department's enhanced technology transfer program; overseeing the transfer of the results of the Department's research and development activities to commercial use; developing the tools and training required for technology commercialization; conducting outreach activities for the Department; and conducting independent assessments of laboratory cooperative research and development agreement (CRADA) guidelines and allowance. In addition, develop a performance measurement system for the Department to measure the success of its technology transfer/ utilization activities.</p>



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

Program Activity	FY 1991	FY 1992	FY 1993
Advisory and Oversight Program Direction (Cont'd)	No activity.	<p>Provide 10 FTEs, not included in the FY 1992 budget, to establish the Office of Space in response to SEN-33-91, as amended. The Department of Energy is a member of the National Space Council, and the new Office coordinates the Department's space-related activities. Advise 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; formulate and oversee the implementation of space policies and strategies; establish long-range plans for space; coordinate and develop the overall budget for space; and manage assigned space-related activities of the Department to achieve national objectives in national space policy, national energy strategy, national security, and international competitiveness. Maintain liaison with domestic and foreign space agencies and organizations concerning their energy- and space-related activities and consult with advisory committees and boards within and external to the Department regarding DOE space-related activities and issues. The new Office will report annually to the Secretary of Energy on its activities.</p>	<p>Provide for an increase of 10 FTEs over the FY 1992 budget, which are also required in FY 1992. Continue activities established in FY 1992, including advising 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; establishing long-range plans for space; coordinating and developing the overall budget for space; and managing assigned space-related activities of the Department to achieve national objectives in national space policy, national energy strategy, national security, and international competitiveness. Maintain liaison with domestic and foreign space agencies and organizations concerning their energy- and space-related activities and consult with advisory committees and boards within and external to the Department regarding DOE space-related activities and issues.</p>
	<p>The Office of Assessment and Support (OAS) continued to provide staff technical support to the Director of ER and independent environment, safety, and health (ES&amp;H) oversight of ER field operations and support to line management in all areas of ES&amp;H, safeguards and security, emergency preparedness, and quality assurance. Provided support for a wide variety of activities in these areas to ensure compliance with ES&amp;H directives and regulations, with particular emphasis</p>	<p>Provide one additional FTE, not included in the FY 1992 budget, to continue to improve responsiveness to current ES&amp;H directives and regulations. Strengthen ES&amp;H oversight, follow-up on Tiger Team findings, NEPA compliance activities, partial implementation of OSHA and Conduct of Operations requirements, self-assessments, and ER program support as appropriate. Respond to many initiatives from the Secretary and from other DOE organizations, such as</p>	<p>Provide one additional FTE over the FY 1992 budget, also required in FY 1992. Continue to provide independent ES&amp;H oversight of ER programs and facilities and provide technical support to the Director of ER. OAS will continue to be more responsive to ES&amp;H directives, regulations, and other DOE, OSHA, and NEPA requirements. Upgrade safety documentation and technical safety requirements for facility operations, provide ES&amp;H training for ER staff.</p>

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

Program Activity	FY 1991	FY 1992	FY 1993
Advisory and Oversight Program Direction (Cont'd)	<p>on compliance with NEPA and OSHA requirements. In response to the Secretary of Energy's mandates and expectations, designed risk acceptance criteria, NEPA compliance, and ES&amp;H appraisal programs; planned and implemented programs for performance indicators, incident reporting, ER emergency response capability, and ES&amp;H orientation and training; and initiated self assessments.</p> <p>Provided program and management support in the areas of budget and finance, personnel administration, acquisition and assistance, policy review and coordination, and construction management support.</p> <p>Provided program support such as printing, timesharing on various information systems and communications networks and contractual support. Provided for support costs of Automated Office Support Systems workstations including hotline support, hardware modifications, upgrades, moves, and telecommunications/network support. (\$155)</p>	<p>Performance Indicators, emergency preparedness response, and nuclear and other safety Orders and regulations. Organize and initiate mandated environmental protection programs and requirements, including monitoring, planning, oversight, and self-assessment programs. Continue liaison and interaction with other DOE HQ organizations and with ER field offices and contractor counterparts.</p> <p>Provide one additional FTE, not included in the FY 1992 budget, to support HQ/field realignment and expanded science and technology advisory responsibilities of the Office of the Science and Technology Advisor (OSTA). Increase interactions with Chicago and San Francisco Field Offices in the areas of program and management support.</p> <p>Continue the variety of miscellaneous program support required in FY 1991. In addition, provide \$2,250 for contractual support for ES&amp;H oversight and assessment capability, technical reviews and analyses, technical support to the ER programs, and NEPA compliance activities. (\$2,795)</p>	<p>implement OSHA and quality assurance initiatives as well as new requirements for fire protection. Continue self-assessment efforts, action item tracking and follow-up efforts. Implement effluent and environmental monitoring, planning, oversight, and self-assessment programs. Assess site progress in implementing Compliance Action Plans, and perform extensive liaison and interaction activities, as well as oversee ES&amp;H activities at ER assigned field offices.</p> <p>Provide one additional FTE above the FY 1992 budget, also required in FY 1992. Continue to provide for a wide variety of support and services to implement responsibilities related to HQ/field realignment and OSTA.</p> <p>Continue the variety of program support included in the FY 1992 budget. In addition, provide contractual support for the major expansion in STA responsibilities. (\$5,990)</p>
	\$ 4,225	\$ 8,575	\$ 14,618

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

Program Activity	FY 1991	FY 1992	FY 1993
Secretary of Energy Advisory Board	Supported six FTEs in the Office of SEAB which was established by the Secretary of Energy to assist in Departmental planning and decisionmaking. Includes support of multiple panels and subpanels of top level executives throughout the country focusing on a variety of subjects including research, development, energy, and national defense.	Provide funds for salaries, benefits, travel, and miscellaneous support related to 13 FTEs to support the SEAB. The Board's activity will expand to include additional topics related to national security, radioactive waste, education, and energy technologies.	Provide funds for salaries, benefits, travel, and other support for 13 FTEs. Support the Office of SEAB responsibilities for DOE long-range planning and strategic decisionmaking support to the Secretary of Energy. Provide for normal increased personnel costs resulting, for example, from a general pay raise and within-grade and merit increases.
	\$ 0	\$ 1,525	\$ 1,600
Advisory and Oversight Program Direction	\$ 4,225	\$ 10,100	\$ 16,218

DEPARTMENT OF ENERGY  
FY 1993 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 both in the Headquarters and at various field locations required to administer these programs. During FY 1991, this program also supported a portion of the staff of the Office of Assessment and Support.

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 provide for budget justification and execution. 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), since the SSC is an integral part of the High Energy Physics program.

Beginning in FY 1992, this program also provides program-specific staffing resources at the Chicago, San Francisco, and Oak Ridge Field Offices to support high energy and nuclear physics activities carried out by those offices.

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

DEPARTMENT OF ENERGY  
 FY 1993 CONGRESSIONAL BUDGET REQUEST  
 GENERAL SCIENCE AND RESEARCH  
 (dollars in thousands)

LEAD TABLE

General Science Program Direction

Activity	FY 1991 Enacted	FY 1992 Enacted	FY 1993 Base	FY 1993 Request	Program Change Request vs Base	
					Dollar	Percent
General Science Program Direction						
Operating Expenses.....	\$3,950 a/	\$6,400	\$8,300	\$8,300	--	--
Staffing (FTEs)						
Headquarters.....	48	46	46	46		
Field.....	1	26	26	26		
TOTAL.....	49	72 b/	72	72		

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

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a/ Total has been reduced by sequester of \$52 in accordance with Senate Report 101-378.  
 b/ Revised request.

DEPARTMENT OF ENERGY  
FY 1993 CONGRESSIONAL BUDGET REQUEST  
GENERAL SCIENCE AND RESEARCH  
(dollars in thousands)

SUMMARY OF CHANGES

General Science Program Direction

FY 1992 Appropriation.....	\$ 6,400
- Adjustments - Increased personnel costs.....	<u>+ 1,900</u>
FY 1993 Base and Congressional Budget Request.....	\$ 8,300

DEPARTMENT OF ENERGY  
 FY 1993 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 various field locations required to administer these programs. During FY 1991, this program also supported a portion of the staff of the Office of Assessment and Support.

II. A. Summary Table: General Science Program Direction

Program Activity	FY 1991 Enacted	FY 1992 Enacted	FY 1993 Request	% Change
General Science Program Direction.....	\$ 3,950	\$ 6,400	\$ 8,300	+ 30
Total, General Science Program Direction	\$ 3,950	\$ 6,400	\$ 8,300	+ 30

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

Program Activity	FY 1991	FY 1992	FY 1993
General Science Program Direction	<p>Provided funds for salaries, benefits, and travel for 49 full-time equivalents (FTEs) in the Office of High Energy and Nuclear Physics, the Office of Assessment and Support, and for related program and management support staff at the Headquarters and at Chicago Field Office. (\$3,765)</p>	<p>Provide funds for salaries, benefits, and travel for 67 FTEs included in the FY 1992 budget. A revised request for 5 additional FTEs is discussed below. (\$5,950)</p>	<p>Provide funds for salaries, benefits, and travel for 72 FTEs. Provide for an increase of 5 FTEs over the FY 1992 budget, as discussed below. These FTEs are also required in FY 1992. Also provide for increased personnel costs resulting, for example, from a general pay raise and within-grade and merit increases. (\$6,818)</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, Fermilab, and the Stanford Linear Accelerator Center. Provided technical control and oversight for high energy physics research programs at nine major laboratories and managed more than 100 university research tasks. Continued to oversee compliance with ES&amp;H regulations at large high energy physics facilities. Continued close liaison on SSC program activities. Continued to oversee the safe and efficient operation and strong utilization of existing facilities, including the Tevatron and SLC, and research capabilities. Continued to oversee 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 with unique capabilities not available in the U.S. and for oversight of the L3 detector. Continued to oversee the Fermilab Linac Upgrade Project.</p>	<p>Provide continued oversight of the High Energy Physics program. Monitor activities at the SSC Laboratory and strengthen top level program direction and management of program activities. Continue to strengthen ES&amp;H capability to ensure safe and environmentally sound management and operation of the large and complex High Energy Physics facilities. Continue close liaison with SSC program activities. Continue to oversee efficient operation and strong utilization of existing facilities and research capabilities. 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. Oversee continuation of the Fermilab Linac Upgrade Project. Provide oversight support for initiation of Fermilab Main Injector construction project.</p>	<p>Provide continued oversight of the High Energy Physics Program as in FY 1992. Strengthen physics research management and accountability and contract management oversight. Continue to oversee the safe management and operation of the large and complex High Energy Physics facilities. Continue close liaison with SSC program activities. Continue to oversee efficient operation and strong utilization of existing facilities and research capabilities. 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. Oversee continuation of the Fermilab Main Injector project.</p>



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

Program Activity	FY 1991	FY 1992	FY 1993
General Science Program Direction (Cont'd)	<p>The Nuclear Physics staff provided continued oversight of the Nuclear Physics program, and utilization of seven large and complex national accelerator facilities. Provided technical oversight for nuclear physics research programs and accelerator facilities at seven major laboratories and four universities, managed more than 100 university research tasks, and provided technical and project management oversight for construction and major equipment projects. Continued to oversee compliance with ES&amp;H regulations. Supported increased R&amp;D and construction activities for the Continuous Electron Beam Accelerator Facility (CEBAF). Supported increased effort for R&amp;D and start of construction of the Relativistic Heavy Ion Collider (RHIC) at BNL to supervise managerial enhancements, maintenance of safety and environmental standards, industrialization of superconducting magnet components, development and fabrication of detectors, and general adherence to cost and schedule baselines. Strengthened research programs at facilities which were recently upgraded. Continued to oversee a significant university user experimental research program, and managed the Nuclear Data program in support of various DOE programs. Continued to support theoretical research which includes beginning a Nuclear Theory Institute for advanced concepts.</p>	<p>Maintain continued oversight of the Nuclear physics program. Continue ES&amp;H oversight capability, particularly with regard to operation of accelerator facilities and the construction of CEBAF and RHIC. Continue to oversee complex accelerator facilities and establishment of the CEBAF laboratory. Continue to support establishment of the Nuclear Theory Institute and expand its activities to include broader segments of the community. Support construction of RHIC at an increased level and initiate support for university participation in detector design and fabrication. Support ongoing R&amp;D programs at university facilities and continue to oversee a significant university user experimental research program. Continue to manage the Nuclear Data program.</p>	<p>Provide continued oversight of the Nuclear Physics program as in FY 1992. Continue the current level of effort on ongoing programs, including strengthening of ES&amp;H capability, and oversee international cooperative efforts in the nuclear physics program. Continue to oversee the safe operation or phase-down of complex accelerator facilities and establishment of the CEBAF laboratory. Continue to support establishment of the Nuclear Theory Institute and expand its activities to include broader segments of the community. Continue to support construction of RHIC and university participation in detector design and fabrication at RHIC and CEBAF. Continue to support ongoing R&amp;D programs at university facilities and continue to oversee a significant university user experimental research program. Continue to manage the Nuclear Data program.</p>

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

Program Activity	FY 1991	FY 1992	FY 1993
General Science Program Direction (Cont'd)	<p>Provided a portion of the total staffing requirement for the Office of Assessment and Support to implement oversight and support activities to ensure compliance with applicable ES&amp;H regulations and directives.</p>	<p>No activity. Transferred to the Advisory and Oversight Program Direction account in the Energy Supply, R&amp;D appropriation.</p>	<p>No activity.</p>
	<p>Provided program and management support in the areas of budget and finance, personnel administration, acquisition and assistance, policy review and coordination and construction management support.</p>	<p>Continue to provide program and management support particularly for the expanded information resources management requirements, and strengthen line management control and accountability.</p>	<p>Continue to provide program and management support as in FY 1992. Additional emphasis will be placed on activities related to HQ/field realignment such as management analysis, staff budgeting, and acquisition policy for assigned field offices.</p>
	<p>Provided one FTE to the Chicago Field Office to support increased procurement activities related to RHIC.</p>	<p>Provide the direct program resources required to support High Energy Physics and Nuclear Physics activities at Chicago Field Office. Provide three additional FTEs above the FY 1992 budget. Two of these FTEs are required at Batavia Area Office to meet increased ES&amp;H requirements, strengthen and improve financial management practices, and strengthen contract oversight of Fermilab. One additional FTE will support RHIC technical oversight, procurement, project control, and construction activities at Brookhaven.</p>	<p>Continue to provide direct program support at Chicago Field Office, specifically at Batavia Area Office and in support of RHIC at Brookhaven Area Office. Provide 5 additional FTEs above the FY 1992 budget, all of which are required and discussed in FY 1992.</p>

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

Program Activity	FY 1991	FY 1992	FY 1993
General Science Program Direction (Cont'd)	No activity.	Provide the program resources to support Nuclear Physics on-site activities at the CEBAF Site Office of the Oak Ridge Field Office. Provide technical oversight of the CEBAF Laboratory and technical and administrative support to the facility construction project including, for example, technical review of operations, procurement, ES&H oversight, finance, and property management.	Continue to provide to the Oak Ridge Field Office on-site technical and administrative support for CEBAF.
	No activity.	Support High Energy Physics and other energy research activities at the San Francisco Field Office. Provide two additional FTEs for the Stanford Site Office (SSO) to totally staff the SSO to support increased ES&H efforts, provide required clerical services, and adequately support the technical and administrative activities at the site.	Continue to provide program support to San Francisco Field Office for the Stanford Site Office. Provide two additional FTEs, also required and discussed in FY 1992.
	Provided program support such as printing, advertising, contractual support for the increased environment, safety and health workload, and support for Automated Office Support Systems workstations. (\$185)	Provide increased contractual support, particularly at the newly added field locations, and for additional professional and administrative services at Headquarters. (\$450)	Continue the variety of contractual support required in FY 1992. Provide an increased level of support services to provide increased support to the field offices, including relocation costs. (\$1,482)
	\$ 3,950	\$ 6,400	\$ 8,300
General Science Program Direction	\$ 3,950	\$ 6,400	\$ 8,300