

FEDERAL DEFENDANTS'
DECLARATION OF
BRUCE P. STRAUSS

ATTACHMENT 9

Wagner v. U.S. Dep't of Energy
Civil No. 08-00136-HG-KSC (D. Haw.)

Department of Energy



FY 2009 Congressional Budget Request

Science

U.S. LHC Accelerator and Detectors Funding Profile

(dollars in thousands)

Fiscal Year	Department of Energy			National Science Foundation (Detectors)
	Accelerator	Detectors	Total	
1996 ^a	2,000	4,000	6,000	—
1997 ^a	6,670	8,330	15,000	—
1998 ^a	14,000	21,000	35,000	—
1999	23,491	41,509	65,000	22,150
2000	33,206	36,794	70,000	15,900
2001	27,243	31,627	58,870	16,370
2002	21,303	27,697	49,000	16,860
2003	21,310	37,900	59,210	9,720
2004	29,330	19,470	48,800	—
2005	21,447	11,053	32,500	—
2006	—	7,440	7,440	—
2007	—	3,180	3,180	—
Total	200,000^b	250,000	450,000	81,000

(dollars in thousands)

FY 2007	FY 2008	FY 2009
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▪ **Large Hadron Collider Support**

56,820

63,622

72,450

The U.S. LHC effort is one of the highest priority components of the HEP program, endorsed repeatedly by HEPAP, and by the recent National Academy of Sciences study (EPP2010). With LHC turn-on occurring in 2008, the U.S. LHC program, jointly supported by the DOE and the NSF, will be in a critical phase in FY 2009. An increase of almost 14% in DOE support above FY 2008 is planned. This includes increased costs for Fermilab direct program support. The main use of the resources will be for LHC software and computing, and pre-operations and maintenance of the U.S.-built systems that are part of the LHC detectors. The U.S. also participates in accelerator commissioning and accelerator physics studies using the LHC, along with R&D for potential future upgrades to both the machine and the detectors. Most of the increase in FY 2009 funding is for accelerator R&D aimed at supporting LHC upgrades. With first data anticipated in 2008, a high priority will be on the ramp-up of operations in FY 2009.

^a The FY 1996 and FY 1997 LHC funding was for R&D, design, and engineering work in support of the proposed U.S. participation in LHC. Beginning in FY 1998 funding was used for: fabrication of machine and detector hardware, supporting R&D, prototype development, and purchases by CERN from U.S. vendors

^b Includes \$111,500,000 for LHC supporting R&D and accelerator components to be fabricated by U.S. laboratories and \$88,500,000 for purchases by CERN from U.S. vendors.