§ 44506. Air traffic controllers

(a) Research on Effect of Automation on Performance.— To develop the means necessary to establish appropriate selection criteria and training methodologies for the next generation of air traffic controllers, the Administrator of the Federal Aviation Administration shall conduct research to study the effect of automation on the performance of the next generation of air traffic controllers and the air traffic control system. The research shall include investigating—

(1) methods for improving and accelerating future air traffic controller training through the application of advanced training techniques, including the use of simulation technology;
(2) the role of automation in the air traffic control system and its physical and psychological effects on air traffic controllers;
(3) the attributes and aptitudes needed to function well in a highly automated air traffic control system and the development of appropriate testing methods for identifying individuals with those attributes and aptitudes;
(4) innovative methods for training potential air traffic controllers to enhance the benefits of automation and maximize the effectiveness of the air traffic control system; and
(5) new technologies and procedures for exploiting automated communication systems, including Mode S Transponders, to improve information transfers between air traffic controllers and aircraft pilots.

(b) Research on Human Factor Aspects of Automation.— The Administrators of the Federal Aviation Administration and National Aeronautics and Space Administration may make an agreement for the use of the National Aeronautics and Space Administration’s unique human factor facilities and expertise in conducting research activities to study the human factor aspects of the highly automated environment for the next generation of air traffic controllers. The research activities shall include investigating—

(1) human perceptual capabilities and the effect of computer-aided decision making on the workload and performance of air traffic controllers;
(2) information management techniques for advanced air traffic control display systems; and
(3) air traffic controller workload and performance measures, including the development of predictive models.

(c) Collegiate Training Initiative.—

(1) The Administrator of the Federal Aviation Administration may maintain the Collegiate Training Initiative program by making new agreements and continuing existing agreements with institutions of higher education (as defined by the Administrator) under which the institutions prepare students for the position of air traffic controller with the Department of Transportation (as defined in section 2109 of title 5). The Administrator may establish standards for the entry of institutions into the program and for their continued participation.

(2) (A) The Administrator of the Federal Aviation Administration may appoint an individual who has successfully completed a course of training in a program described in paragraph (1) of this subsection to the position of air traffic controller noncompetitively in the excepted service (as defined in section 2103 of title 5). An individual appointed under this paragraph serves at the pleasure of the Administrator, subject to section 7511 of title 5. However, an appointment under this paragraph may be converted from one in the excepted service to a career conditional
or career appointment in the competitive civil service (as defined in section 2102 of title 5) when the individual achieves full performance level air traffic controller status, as decided by the Administrator.

(B) The authority under subparagraph (A) of this paragraph to make appointments in the excepted service expires on October 6, 1997, except that the Administrator of the Federal Aviation Administration may extend the authority for one or more successive one-year periods.

(d) Staffing Report.— The Administrator of the Federal Aviation Administration shall submit annually to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate a report containing—

(1) the staffing standards used to determine the number of air traffic controllers needed to operate the air traffic control system of the United States;

(2) a 3-year projection of the number of controllers needed to be employed to operate the system to meet the standards; and

(3) a detailed plan for employing the controllers, including projected budget requests.


**Historical and Revision Notes**

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In subsections (a) and (b), the text of section 8(a) and (b)(3) of the Aviation Safety Research Act of 1988 (Public Law 100–581, 102 Stat. 3015, 3016) and sections 601 and 602(3) of the National Aeronautics and Space Administration Authorization Act, Fiscal Year 1989 (Public Law 100–685, 102 Stat. 4102, 4103) is omitted as executed.

In subsection (c), the words “institutions of higher education” are substituted for “post-secondary educational institutions” for consistency in the revised title.

**Amendments**


**Controller Staffing**

Pub. L. 112–55, div. C, title I, Nov. 18, 2011, 125 Stat. 645, provided in part: “That not later than March 31 of each fiscal year hereafter, the Administrator of the Federal Aviation Administration shall transmit to Congress an annual update to the report submitted to Congress in December 2004 pursuant to section 221 of Public Law 108–176 [set out below]”.

Similar provisions were contained in the following prior appropriation acts:

“(a) Annual Report.—Beginning with the submission of the Budget of the United States to the Congress for fiscal year 2005, the Administrator of the Federal Aviation Administration shall transmit a report to the Senate Committee on Commerce, Science, and Transportation and the House of Representatives Committee on Transportation and Infrastructure that describes the overall air traffic controller staffing plan, including strategies to address anticipated retirement and replacement of air traffic controllers.
“(b) Human Capital Workforce Strategy.—
“(1) Development.—The Administrator shall develop a comprehensive human capital workforce strategy to determine the most effective method for addressing the need for more air traffic controllers that is identified in the June 2002 report of the General Accounting Office [now Government Accountability Office].
“(2) Completion date.—Not later than 1 year after the date of enactment of this Act [Dec. 12, 2003], the Administrator shall complete development of the strategy.
“(3) Report.—Not later than 30 days after the date on which the strategy is completed, the Administrator shall transmit to Congress a report describing the strategy.”