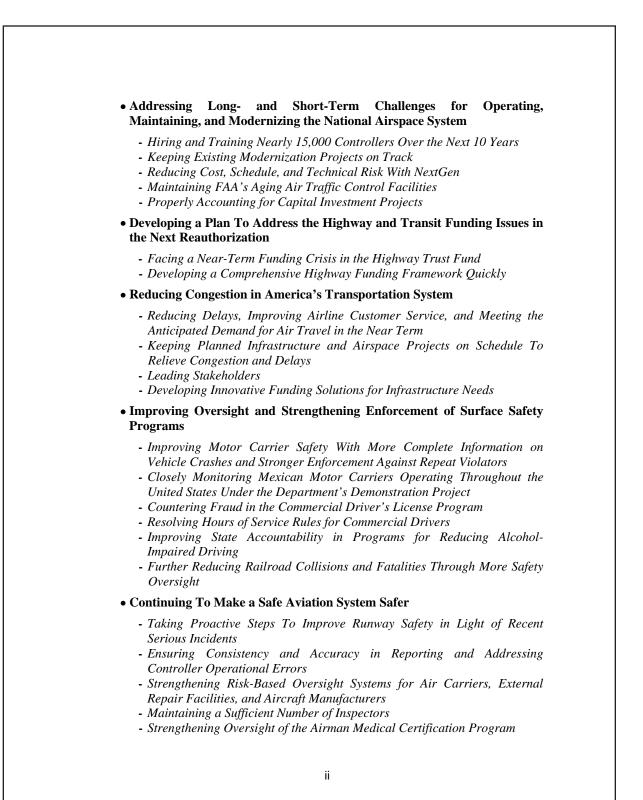
UNITED STATES DEPARTMENT OF TRANSPORTATION

TOP MANAGEMENT CHALLENGES Department of Transportation Report Number: PT-2008-008 Date Issued: November 15, 2007

Memorandum U.S. Department of Transportation Office of the Secretary of Transportation Office of Inspector General Subject: INFORMATION: DOT's FY 2008 Date: November 15, 2007 Top Management Challenges Report Number PT-2008-008 From: Calvin L. Scovel III Calvin L. Acovel TIL Reply to Attn. of: J-1 Inspector General To: The Secretary Deputy Secretary The Office of Inspector General (OIG) has identified nine top management challenges for the Department of Transportation (DOT) for fiscal year (FY) 2008. The traveling public's growing concerns about aging transportation infrastructure and increasing air travel delays will demand special attention from DOT in FY 2008. Key actions will include balancing funding needs to repair or replace aging systems while expanding capacity and determining requirements to advance new technologies and viable oversight structures. The OIG's list for FY 2008 is summarized below. This report and the Department's response (see Appendix) will be incorporated into the DOT Performance and Accountability Report, as required by law. The exhibit to this report compares this year's management challenges with those published in FY 2007. • Continuing To Enhance Oversight To Ensure the Safety of an Aging Surface Transportation Infrastructure and Maximize the Return on **Investments in Highway and Transit Infrastructure Projects** - Targeting Oversight Actions To Ensure the Safety of Tunnels and Bridges - Ensuring That Major Projects Are Completed in an Efficient and Cost-Effective Manner To Maximize the Return on Federal Infrastructure Investments i

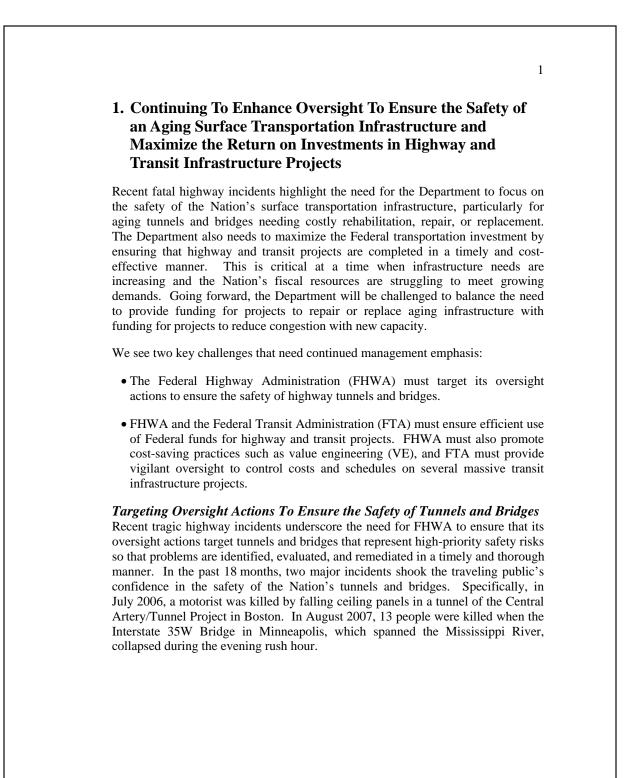
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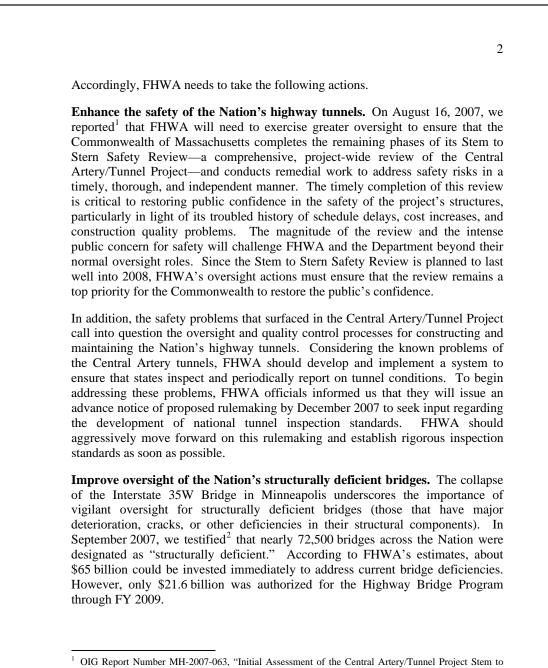


• Strengthening the Protection of Information Technology Resources, **Including the Critical Air Traffic Control System** - Enhancing Air Traffic Control System Security and Continuity Planning - Testing and Strengthening the Information System Security Program at DOT Headquarters - Ensuring the Timeliness of Data Recording and Protection of Personally Identifiable Information When Interfacing With Non-Federal Systems - Continuing To Enhance Oversight of Information Technology Investments • Managing Acquisition and Contract Operations More Effectively To **Obtain Quality Goods and Services at Reasonable Prices** - Increasing Incurred-Cost Audits of Procurement Contracts To Reduce Unallowable Charges - Developing Strategies for the Future Acquisition Workforce - Fostering High Ethical Standards Throughout the Department and Its Contracting Programs To Maintain the Public Trust - Enhancing Oversight on Federal-Aid Highway Construction Projects To Prevent Abuse in Contractor Quality Control Programs • Reforming Intercity Passenger Rail - Improving Amtrak's Cost-Effectiveness To Sustain Its Financial Progress - Overcoming Challenges to Improving Amtrak's On-Time Performance - Reauthorizing Amtrak To Facilitate Reform If you have any questions concerning this report, please contact me at (202) 366-1959. You may also contact David A. Dobbs, Principal Assistant Inspector General for Auditing and Evaluation, at (202) 366-1427. #

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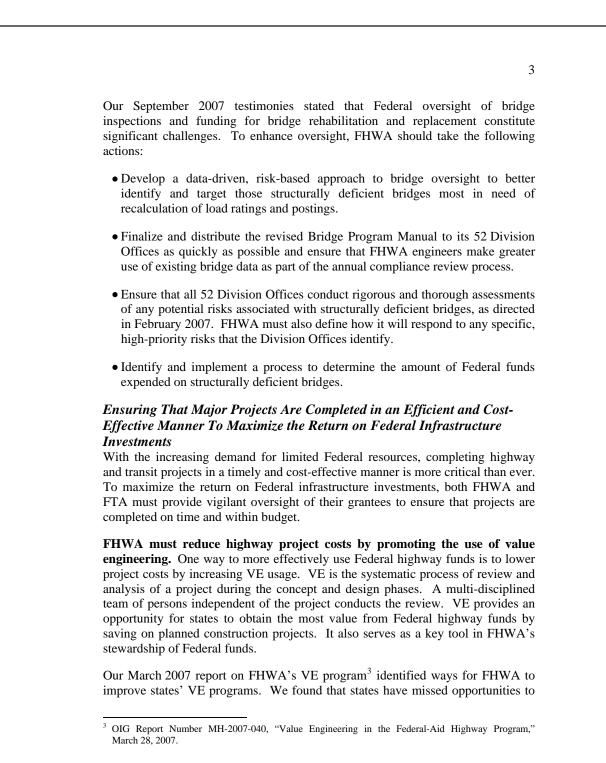
Continuing To Enhance Oversight To Ensure the Safety of an Aging Surface Transportation Infrastructure and Maximize the Return on Investments in Highway and Transit Infrastructure Projects
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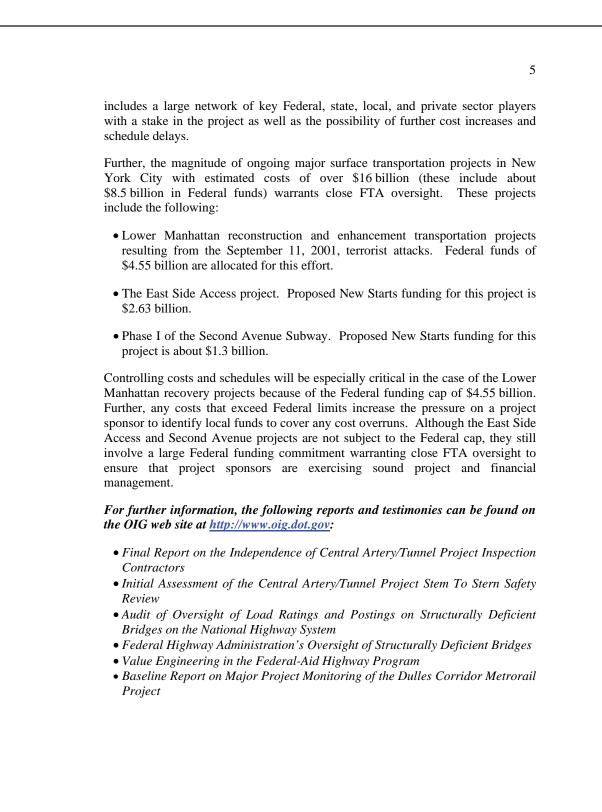


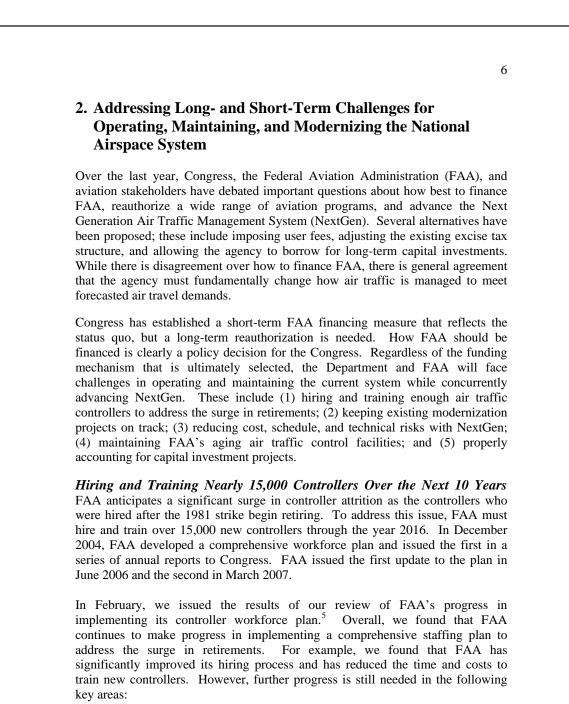
Stern Safety Review," August 16, 2007. OIG reports and testimonies are available on our website: www.oig.dot.gov.
 ² OIG Testimony Number CC-2007-095, "Federal Highway Administration's Oversight of Structurally

DiG Testimony Number CC-2007-095, "Federal Highway Administration's Oversight of Structurally Deficient Bridges," September 5, 2007. OIG Testimony Number CC-2007-101, "FHWA Can Do More in the Short Term To Improve Oversight of Structurally Deficient Bridges," September 20, 2007.

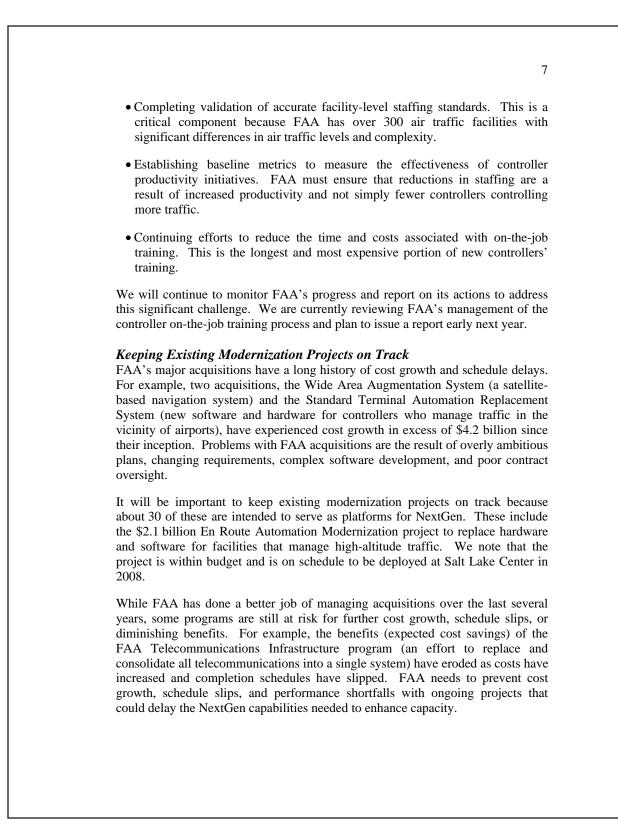


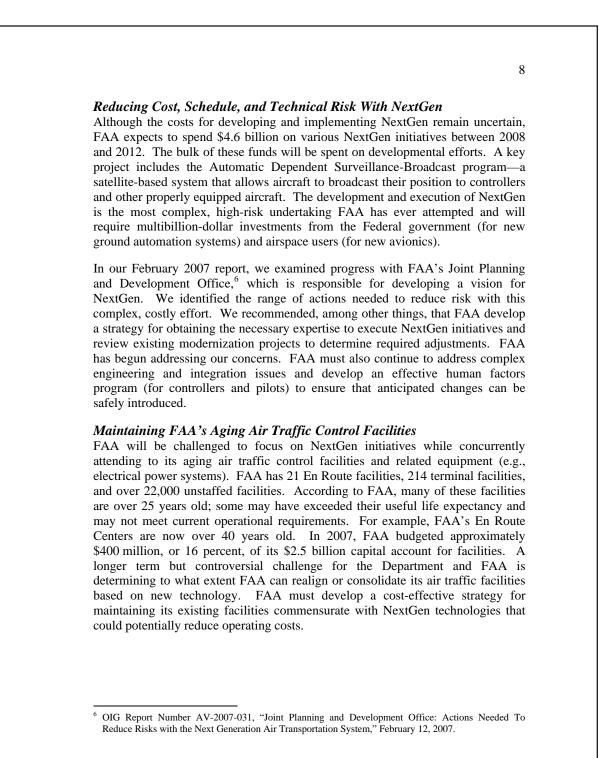
4 realize additional savings. For example, from FY 2001 through FY 2004, states collectively reported \$4.2 billion in VE-recommended savings. However, we estimated that during the same 4-year period, states could have saved an additional \$906 million (\$725 million in Federal funds) by conducting all required VE studies (\$117 million) and by achieving the national average of completing 44.4 percent of VE recommendations (\$789 million). These savings could have been reprogrammed to other transportation projects. To increase cost savings for federally supported highway projects in the future, FHWA should improve its VE program by revising policies, strengthening oversight activities, and disseminating best practices to states. FTA must provide vigilant oversight of transit projects to control costs and schedules. FTA has several massive infrastructure projects in various stages of design or construction. The agency must ensure that project sponsors keep these projects on schedule and within budget, particularly those projects in the Washington, D.C., Metropolitan Area and New York City. Vigilant oversight of these projects will be particularly important as FTA simultaneously oversees a large portfolio of other nationwide transit infrastructure projects. In its "Annual Report on Funding Recommendations-Proposed Allocation of Funds for Fiscal Year 2008," FTA reported 10 existing fully funded infrastructure projects (not including the Washington, D.C., and New York City projects) with total Federal funding of about \$4.6 billion. FTA reported that an additional 12 projects are currently competing for full funding. The Dulles Corridor Metrorail Project in the Washington, D.C., Metropolitan Area will challenge FTA in several respects. In July 2007, we reported⁴ on key risk indicators in this project that merit the Department's close monitoring in light of a potential Federal investment of \$1.475 billion (including a \$900 million New Starts grant and a separate loan and line of credit). Among the risks we identified were increases in cost estimates of over \$1 billion and schedule delays of about 4 years. We observed that the reported cost increases could prevent the project from meeting FTA's cost-effectiveness standards, which would make it ineligible for a New Starts grant. After we issued our report, FTA examined the project cost estimate and identified that certain elements of the project were underestimated. FTA also found that the project did not meet cost-effectiveness standards. The project sponsors have since revised the project scope and submitted a new, lower estimate. FTA is examining the new estimate, but it could find that the project still does not meet costeffectiveness standards. If the project goes forward, however, FTA will be challenged by the unusually complex organizational structure of the project. This ⁴ OIG Report Number MH-2007-060, "Baseline Report on Major Project Monitoring of the Dulles Corridor Metrorail Project," July 27, 2007.

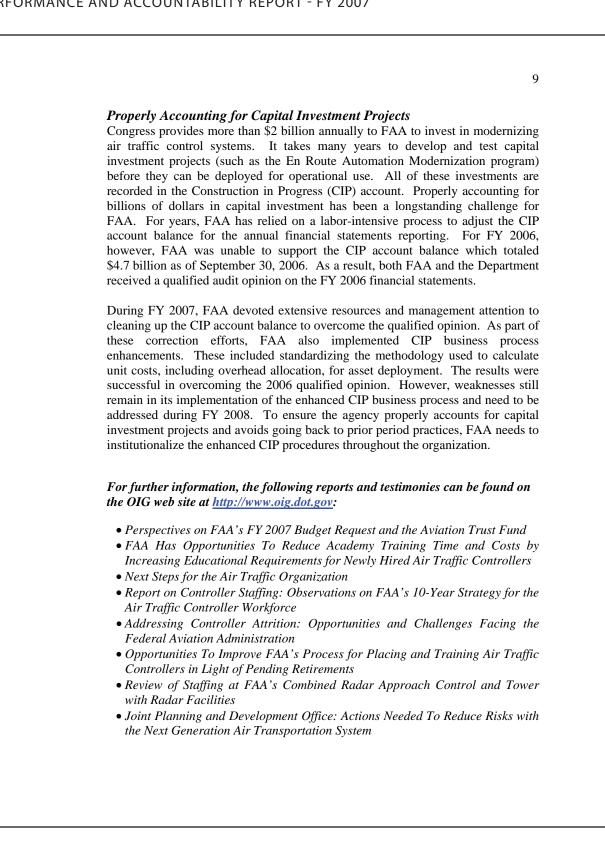




⁵ OIG Report Number AV-2007-032, "FAA Continues To Make Progress in Implementing Its Controller Workforce Plan, but Further Efforts Are Needed in Several Key Areas," February 9, 2007.

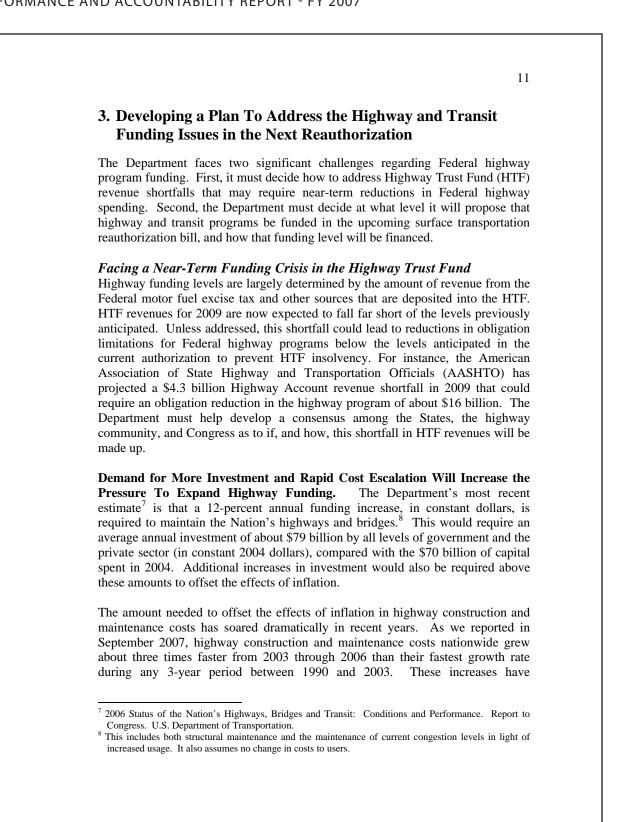


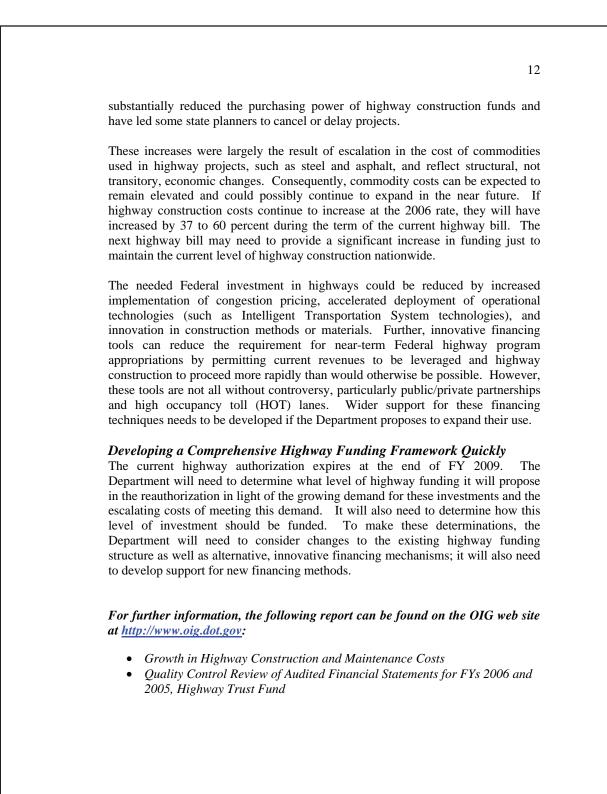


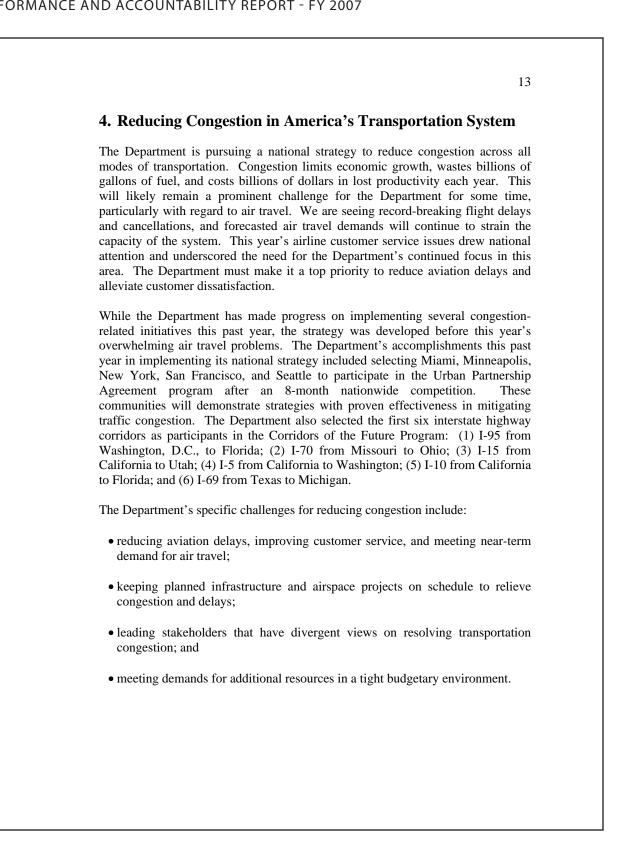


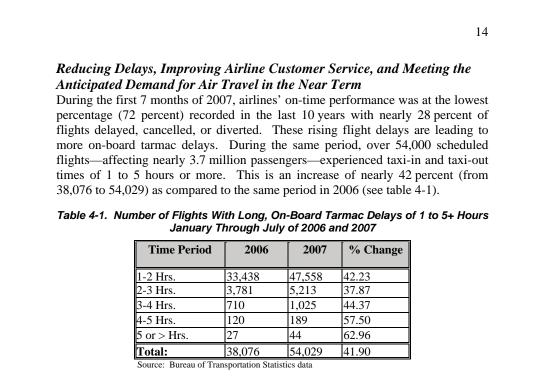
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10 • FAA Continues To Make Progress in Implementing its Controller Workforce Plan, But Further Efforts are Needed in Several Key Areas • FAA's FY 2008 Budget Request: Key Issues Facing the Agency • Actions Needed To Reduce Risk With the Next Generation Air Transportation System • Inspector General Testifies Before the House Aviation Subcommittee Regarding FAA Financing Proposals • Quality Control Review of Audited Financial Statements for FYs 2006 and 2005, Federal Aviation Administration





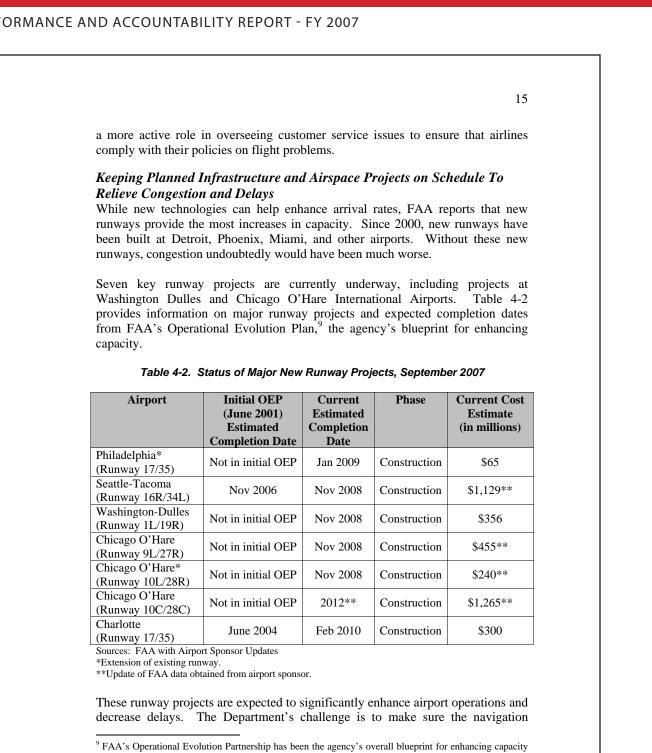




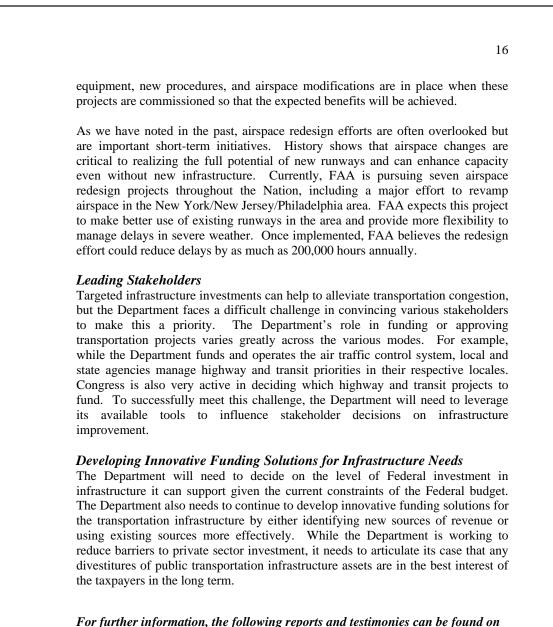
Consumer complaints are also on the rise. DOT's Air Travel Consumer Reports disclosed that for the first 7 months of 2007, complaints relating to flight problems (delays, cancellations, and missed connections) involving U.S. airlines more than doubled (1,096 to 2,468) for the same period in 2006. One-third of the Nation's air traffic passes through New York, and three-fourths of the chronic delays around the country can be traced to delays at the New York airports.

Airlines, airports, FAA, and DOT must work together to reduce delays and minimize the impact on passengers when these delays occur. Secretary Peters is committed to taking action, but the Department faces several challenges in addressing this issue. Although there is no "silver bullet," a cumulative mix of solutions could help. These include scheduling procedures, air traffic control modernization, and ground infrastructure (new runways). Complex policy questions, such as peak-hour pricing, will also complicate potential solutions.

Short- and long-term solutions to these delay problems must be pursued. It is also important to remember that the traveling public will likely face similar air travel problems in the spring and summer of 2008 and 2009 before they experience any real relief from capacity problems. The airlines and airports must do their part in the short term to effectively implement their customer service plans—including contingency plans—especially when extraordinary flight disruptions cause significant delays, cancellations, and diversions. The Department should also take



and includes runways, airspace changes, and new procedures. In June 2007, FAA expanded the scope of the plan beyond capacity to include commitments for the Next Generation Air Transportation System.

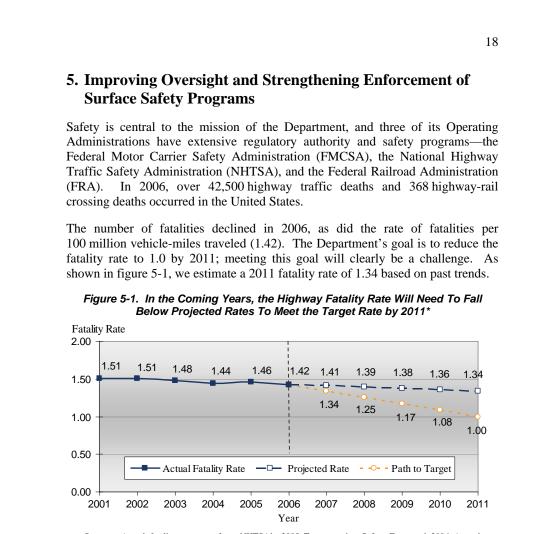


the OIG web site at <u>http://www.oig.dot.gov</u>:

• Airspace Redesign Efforts Are Critical To Enhance Capacity but Need Major Improvements



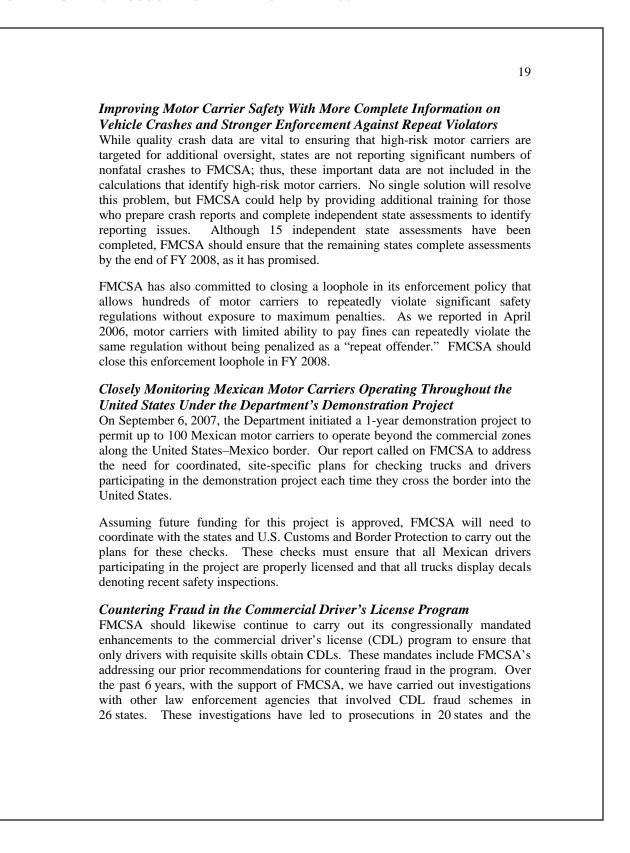
17 • Aviation Industry Performance: Trends in Demand and Capacity, Aviation System Performance, Airline Finances, and Service to Small Airports (June 2005 and August 2006) • Audit of Small Community Aviation Delays and Cancellations • Observations on Current and Future Efforts To Modernize the National Airspace System • Observations on the Progress and Actions Needed To Address the Next Generation Air Transportation System • Follow-Up Review: Performance of U.S. Airlines in Implementing Selected Provision of the Airline Customer Service Commitment. • Refocusing Efforts To Improve Airline Customer Service Actions Needed To Improve Airline Customer Service • Actions Needed To Minimize Long, On-Board Delays • Actions Needed To Improve Airline Customer Service and Minimize Long, On-**Board Delays**

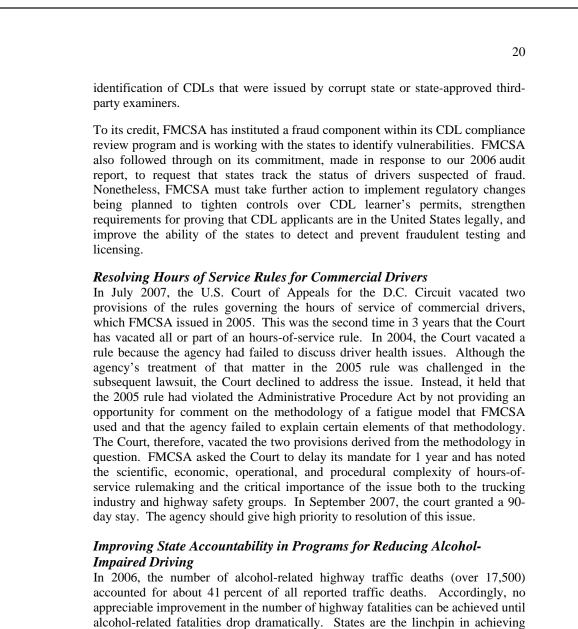


Source: Actual fatality rates are from NHTSA's 2005 Transportation Safety Facts and 2006 Annual Assessment Report. Projected rates for 2007 through 2011 were calculated using NHTSA's forecasting methodology. The Path to Target line drops from 1.42 in 2006 to 1.00 in 2011 and assumes an equal annual decrease.

*Fatality rates are shown as the number of fatalities per 100 million vehicle-miles traveled.

Our recent audit work points to areas in which the Department can better meet the challenge of reducing transportation fatalities through enhanced oversight of safety programs and stronger enforcement.

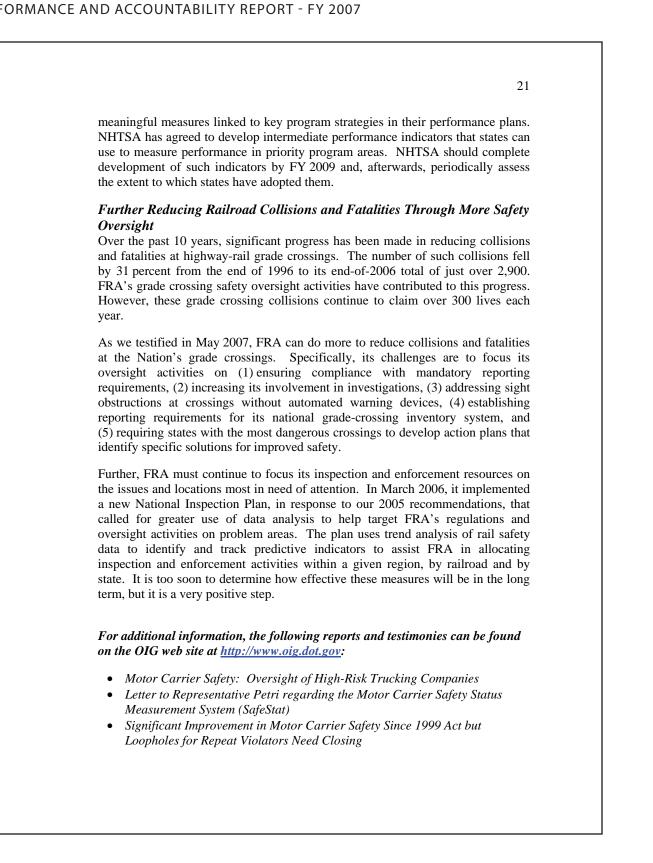




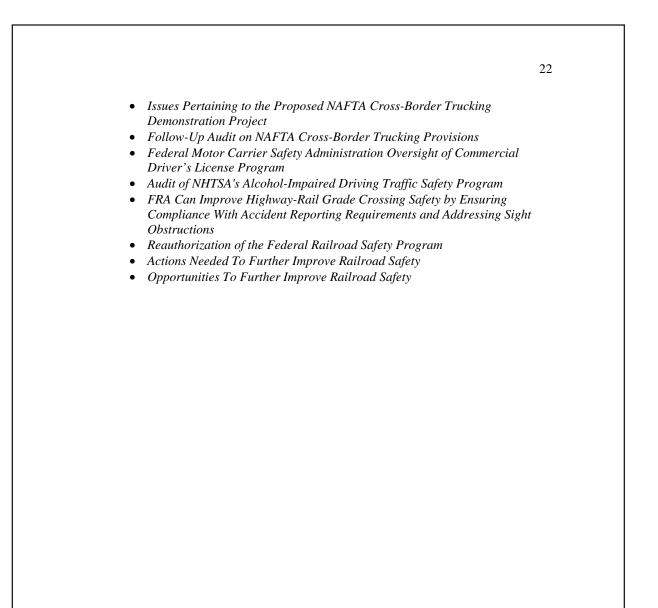
this drop and ensuring that the \$555 million in Federal funding authorized for state alcohol-impaired driving incentive grants are targeted toward strategies that have the most impact.

NHTSA-the lead Federal agency responsible for reducing alcohol-impaired driving-could assist in this effort by ensuring that the states include more

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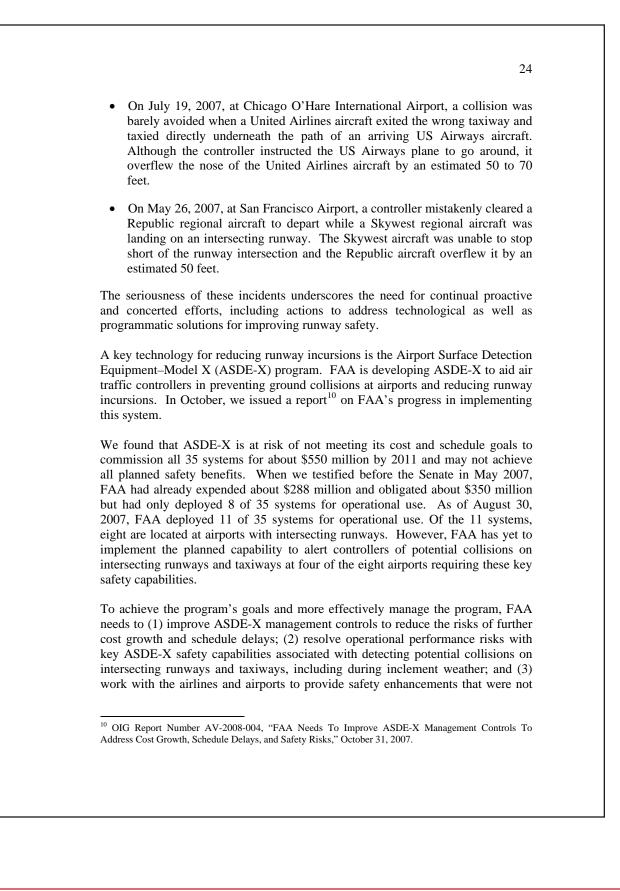


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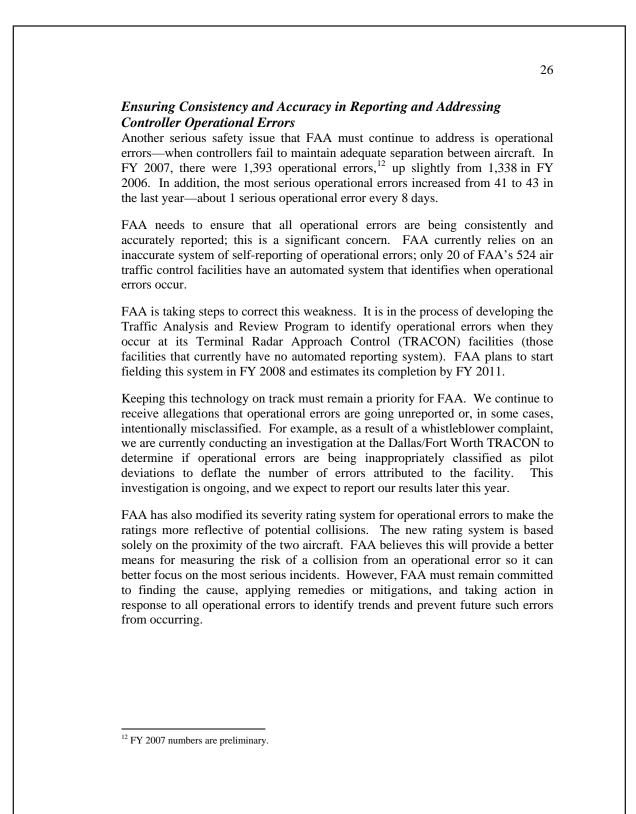


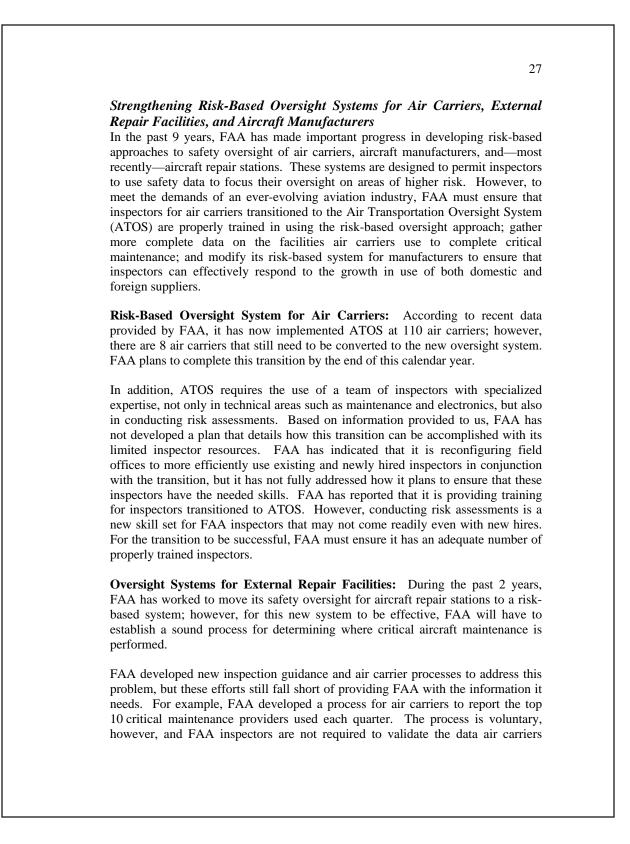
23 6. Continuing To Make a Safe Aviation System Safer Safety is the FAA's highest priority. For more than 5 years, FAA and the U.S. aviation industry have experienced one of the safest periods in history—even as the industry was undergoing dramatic changes. However, the August 27, 2006, crash of Comair Flight 5191 served as a reminder that we must continue to do more to make a safe system safer. Key challenges for FAA are: • Taking proactive steps to improve runway safety in light of recent serious incidents: Ensuring consistency and accuracy in reporting and addressing controller operational errors; • Strengthening risk-based systems for external repair facilities, air carriers, and aircraft manufacturers; • Maintaining a sufficient number of inspectors with the right skills and in the right locations to oversee a dynamically changing aviation industry; and • Strengthening oversight of the Airman Medical Certification Program. Taking Proactive Steps To Improve Runway Safety in Light of Recent Serious Incidents Reducing the risk of runway incursions Figure 6-1. Runway Incursions (potential collisions on airport surfaces) is a FY 1999 to FY 2007 critical safety issue that requires proactive FY 1999 32 and ongoing effort on the part of FAA, 405 airlines, and airport operators. In fact, the FY 2001 407 last fatal commercial aircraft accident in the 33 FY 2003 323 United States (Comair flight 5191) was the 326 result of a runway incident in which the FY 2005 327 pilots attempted to take off from the wrong *FY 2007 runway. 0 200 300 400 500 100 *Preliminary Data As shown in figure 6-1, the total number of Source: FAA runway incursions decreased from a high of 407 in FY 2001 to a low of 323 in FY 2003. Since 2003, the number of runway incursions had leveled off until last year, when they increased to 371. Although the most serious runway incursions (category A and B events) decreased to 24 in 2007, very serious runway incursions continue to occur. For example:

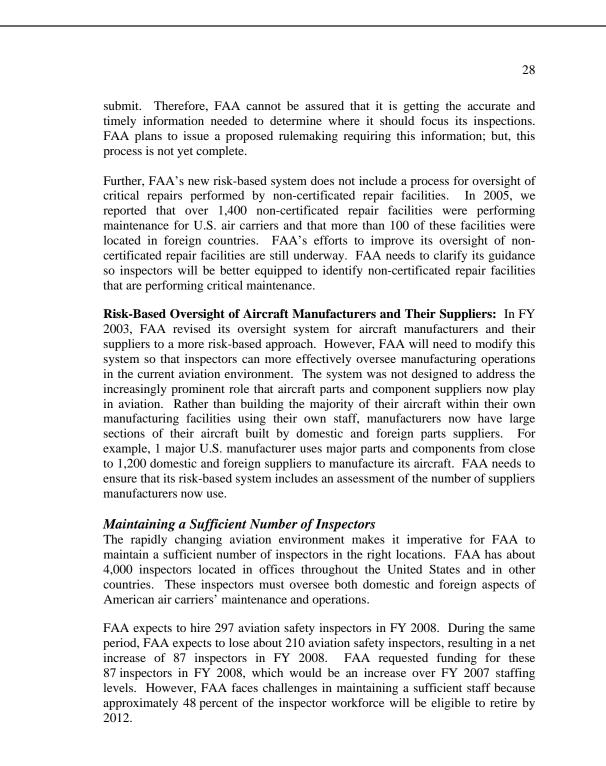
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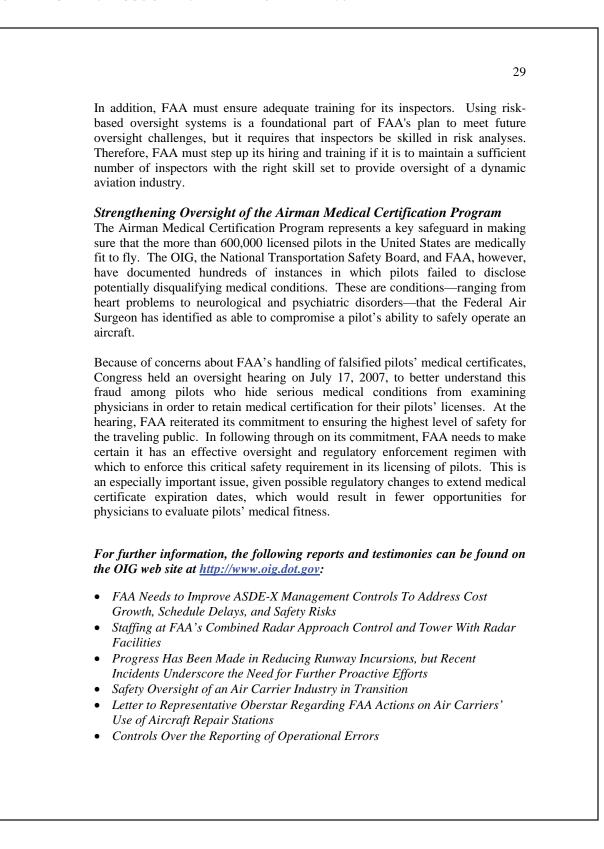


25 included in the ASDE-X program's rebaseline but are vital to reducing the risks of ground collisions caused by pilot and vehicle operator errors. In May, we issued a report¹¹ on FAA's actions to address runway incursions at four major airports. Overall, we found that several national initiatives for promoting runway safety (undertaken by FAA as early as 2000) have subsequently waned as the number of incidents declined and FAA met its yearly goals for reducing runway incursions. We identified several programmatic actions that FAA needs to take to help prevent runway incursions systemwide. They include: • improving information sharing among users to identify root causes of pilot deviations and communicate best practices to reduce runway incursions; placing additional focus on controller human factors issues and training to improve individual, team, and facility performance; and assigning greater authority and accountability at the national level to ensure • that runway safety remains a priority for all FAA lines of business. FAA is in the process of addressing these concerns. For example, it appointed a permanent executive-level director for its Runway Safety Office in August 2007a position that had been vacant for almost 3 years. FAA also plans to reinstate its National Plan for Runway Safety, which has not been prepared since 2002. In August 2007, FAA also convened a meeting with airline and airport officials, and agreed to a five-point, short-term plan for improving runway safety. The plan's major focus includes: conducting safety reviews at airports where wrong runway departures and • runway incursions are the greatest concern, accelerating the deployment of improved airport signage and markings at the top 75 airports ahead of the June 2008 mandated deadline, and • reviewing cockpit procedures and air traffic clearance procedures. The success of these positive actions will depend on ensuring that the current momentum continues and that runway safety remains a high priority for all users of the National Airspace System. ¹¹ OIG Report Number AV-2007-050, "Progress Has Been Made In Reducing Runway Incursions, But Recent Incidents Underscore the Need for Further Proactive Efforts," May 24, 2007.



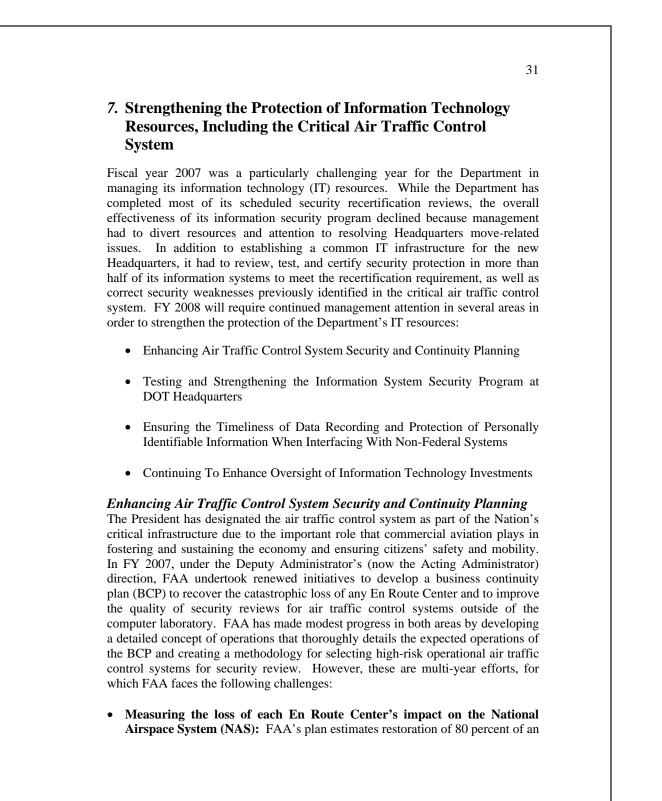






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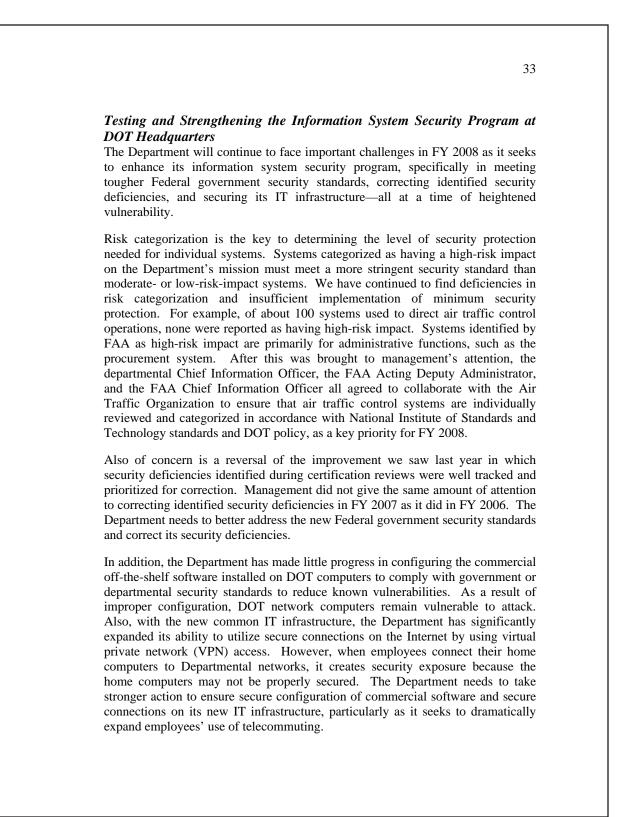
30 • Alleged Cover-Up of Operational Errors at DFW TRACON • Review of Air Carriers' Use of Non-Certificated Repair Facilities • Letter to Representative Oberstar Regarding FAA's Aging Airplane Safety Rule • Falsification of FAA Airman Medical Certificate Applications by Disability Recipients



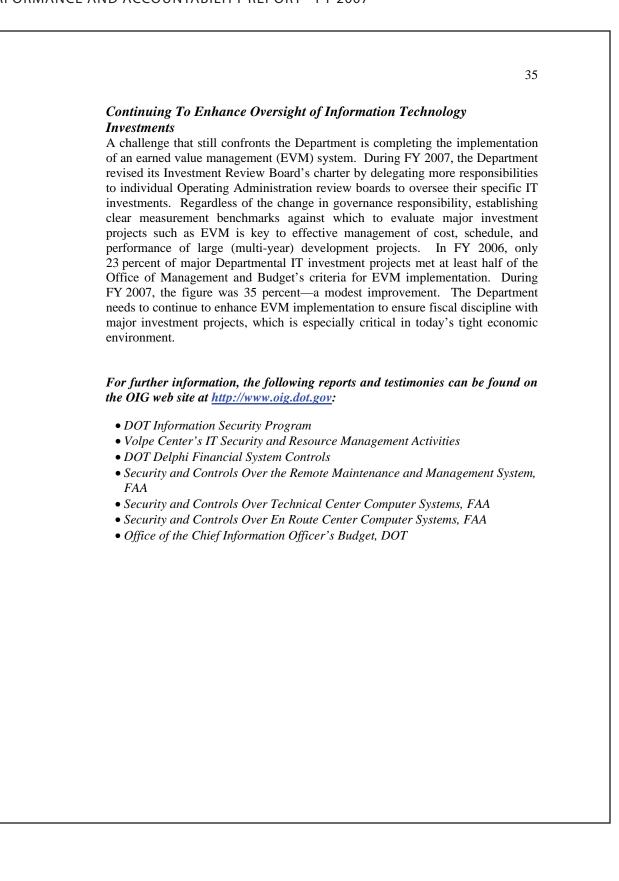
32 affected En Route Center's capabilities within 3 weeks; however, the impact that a disabled center will have on the NAS as a whole has not been assessed. Since each center relies on adjacent centers to efficiently manage air traffic, the loss of one center could cause a ripple effect throughout the NAS. In order for FAA to better understand the overall impact, it will need to conduct an impact analysis of the effect that the loss of 20 percent of operational capability at each En Route Center would have on the entire system. This analysis will help FAA not only determine whether the current plan provides adequate coverage for the entire NAS, but also prioritize BCP development efforts-the most critical En Route Centers receiving more attention. Also, because the plan would shift functionality of the disabled center to the FAA recovery site located at its Technical Center in Atlantic City, NJ, the analysis should determine the impact that an activated recovery plan would have on the Technical Center's core mission-developing and testing systems used to support air traffic control operations and aircraft safety. Resolving technical and resource concerns: The success of the BCP hinges on FAA's ability to overcome logistical challenges. These challenges include rerouting voice communications and surveillance signals from the affected En Route Center(s) to the recovery center, ensuring that the "spare" En Route Center at the Technical Center is properly staffed in the event that it is activated, and prior coordination with the appropriate labor unions for human resource management needs. Another resource concern involves funding. FAA has budgeted \$12 million for developing and implementing the continuity plan. However, this funding level was not based on sufficient analysis or cost estimates; rather, it was obtained by reallocating excess funds from current and ongoing FAA projects. FAA should complete a cost and schedule analysis to better determine estimated costs and use these figures to secure additional funding commitments, if needed. Regarding reviews of operational air traffic control systems security, FAA developed a methodology to select high-risk systems located in the field for

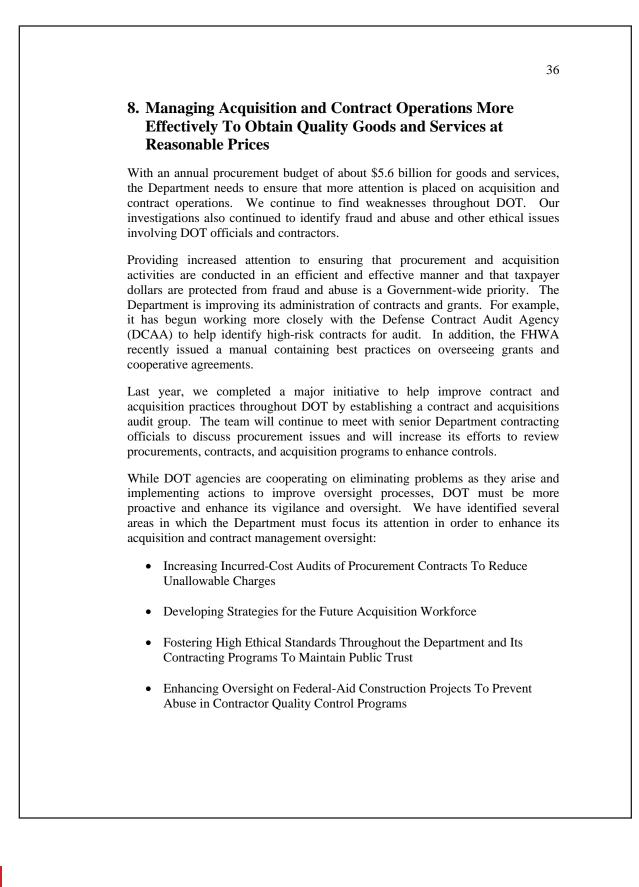
developed a methodology to select high-risk systems located in the field for testing. In fact, FAA went beyond our recommendation and applied this methodology to systems other than those used for air traffic control. However, FAA did not meet its commitment to us to complete its reviews of all TRACON and tower systems by the end of FY 2007. Further, despite the improved site-selection method, FAA did not enhance its methodology to help identify software differences between the baseline systems at the Technical Center and the operational air traffic control systems in the field. This deficiency could weaken overall security protection because vulnerabilities could inadvertently be created when software changes are made to meet local (field site) operational needs, as evidenced in our previous audit reports. FAA needs to focus on identifying and testing for unauthorized software changes in field air traffic control systems.

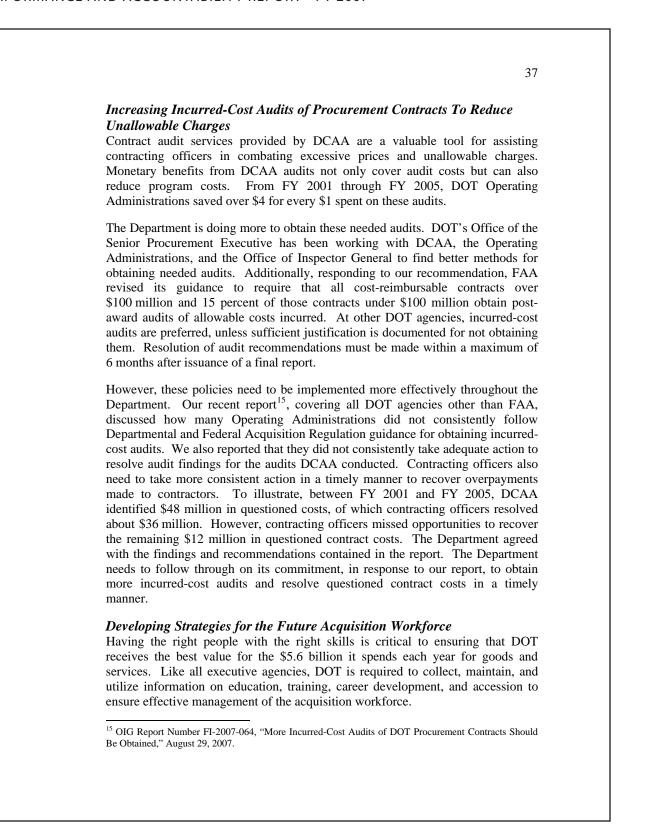
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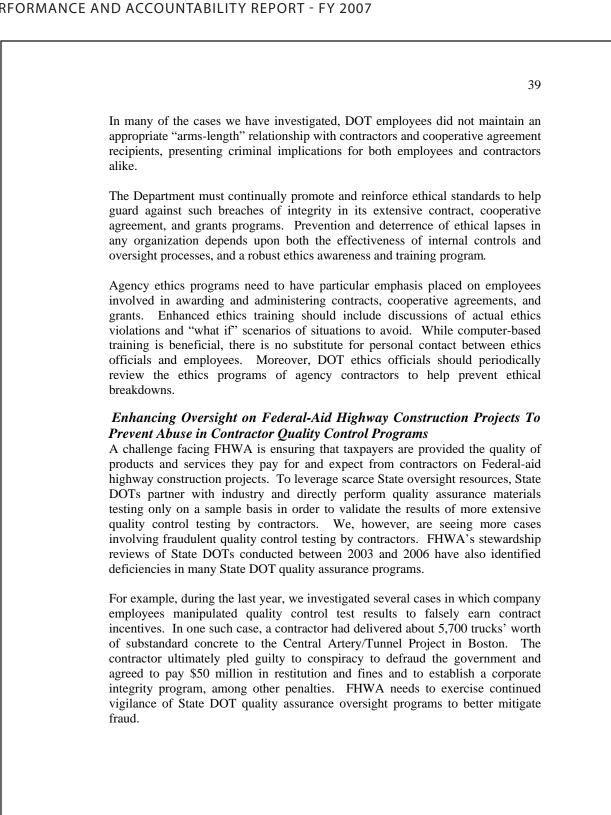




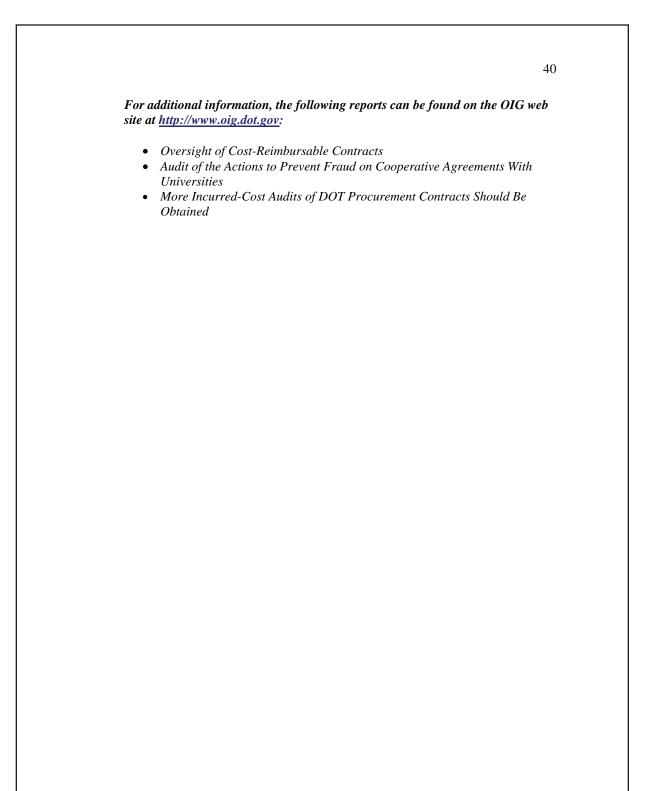
38 As required by the Office of Management and Budget, DOT is in the process of developing a human capital strategic plan for its acquisition workforce. However, DOT is facing a considerable challenge in developing such a plan. According to a senior Department official, they are having difficulty determining which positions comprise the acquisition workforce. Additionally, DOT lacks complete data on the acquisition workforce, such as information on workforce size, knowledge and skills, attrition rates, and retirement rates. Without such critical data, the Department cannot properly identify the current condition of the workforce and decide what needs to be done to ensure that it has the right composition, mix of skills, and talent for the future. Fostering High Ethical Standards Throughout the Department and Its **Contracting Programs To Maintain the Public Trust** DOT employees in contracting-related positions represent the first-and bestline of defense in ensuring program integrity, and a challenge for the Department (as with any government agency) is to develop and maintain robust ethics programs. Contracting officers and their technical representatives, cooperative agreement and grants administrators, and managers are relied upon for the timely recognition and reporting of fraud indicators. Along with effective internal controls and oversight mechanisms, their vigilance is essential to combating fraud. An example of effective vigilance is a recent FAA case involving an almost \$2-billion multiple awards procurement program. FAA had conducted an internal review, finding evidence of a fraud scheme being perpetrated by multiple contractors. The ensuing investigation conducted by FAA and our office found that 13 of the 30 contractors had significantly overcharged FAA. Specifically, over a 3-year period, these 13 firms had billed FAA for employees at labor rates that were often considerably higher than their actual education and experience warranted, as specified by terms of the contract. As a result, FAA has recovered over \$8 million in overcharges and further tightened its internal controls to guard against recurrence. Ethical lapses by DOT employees involved in contracting also sometimes occur. For example, at one Operating Administration, a former program manager pled guilty to felony charges for accepting \$160,000 in exchange for steering contracts worth about \$8 million to an IT services firm headed by a former employee. In another case, an Operating Administration contracting officer and a supervisor provided confidential bid information to a foreign-owned entity to help it underbid

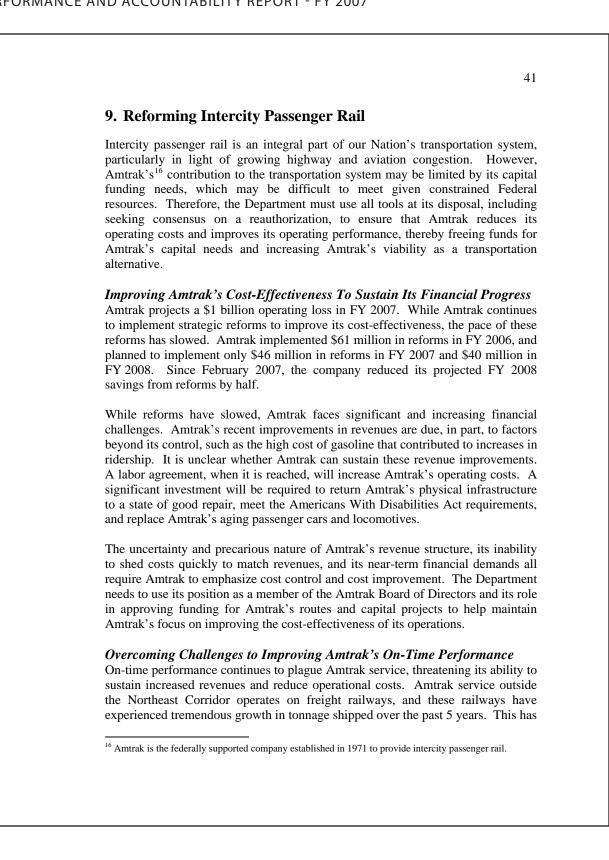
its competitor, a U.S.-owned firm, and win a \$4.3-million contract for construction of lighting system infrastructure. The two employees pled guilty to felony

procurement fraud charges and are no longer employed by DOT.



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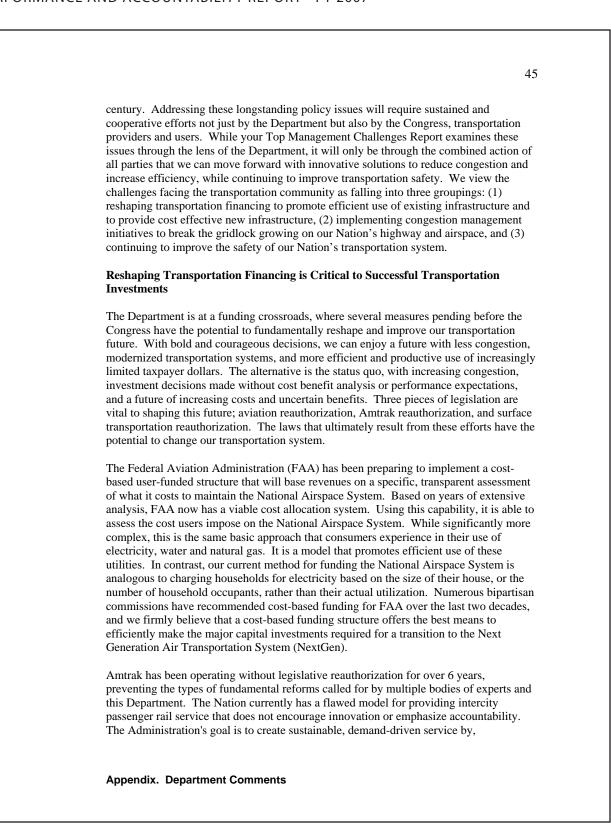


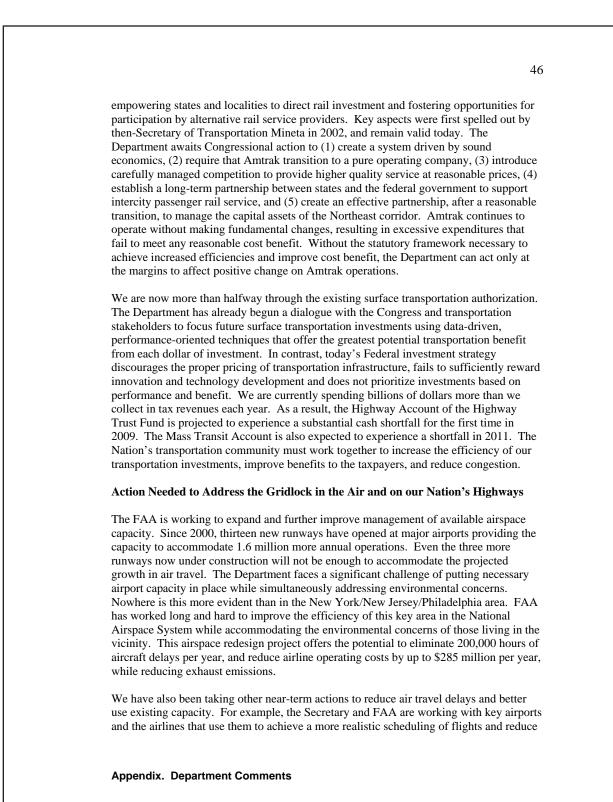
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EXHIBIT. COMPARISON OF FY 2 MANAGEMENT CHALLENGES	008 AND FY 2007 TOP
Items in FY 2008 Report	Items in FY 2007 Report
Continuing To Enhance Oversight To Ensure the Safety of an Aging Surface Transportation Infrastructure and Maximize the Return on Investments in Highway and Transit Infrastructure Projects	Making the Most of the Federal Resources That Sustain Surface Transportation Infrastructure Improvements by Continuing To Emphasize Project Oversight
Addressing Long- and Short-Term Challenges for Operating, Maintaining, and Modernizing the National Airspace System	 FAA Reauthorization – Reaching Consensu on a Financing Mechanism To Fund FAA and Establishing Funding Requirements
• Developing a Plan To Address the Highway and Transit Funding Issues in the Next Reauthorization	
Reducing Congestion in America's Transportation System	Defining, Developing, and Implementing Strategies To Improve Congested Conditions on the Nation's Highways, Port Airways, and Borders
Improving Oversight and Strengthening Enforcement of Surface Safety Programs	Strengthening Efforts To Save Lives by Improving Surface Safety Programs
Continuing to Make a Safe Aviation System Safer	Aviation Safety–Performing Oversight Tha Effectively Utilizes Inspection Resources and Maintaining Aviation System Safety
• Strengthening the Protection of Information Technology Resources, Including the Critical Air Traffic Control System	Protecting, Monitoring, and Streamlining Information Technology Resources
Managing Acquisition and Contract Operations More Effectively to Obtain Quality Goods and Services at Reasonable Prices	• Improving Acquisition and Contract Management To Reduce Costs and Eliminate Improper Payments
Reforming Intercity Passenger Rail	Achieving Reform of Intercity Passenger Rail
	Responding to National Disasters and Emergencies – Assisting Citizens and Facilitating Transportation Infrastructure Reconstruction
	Strengthening DOT's Coordination of Research, Development, and Technology Activities and Funding

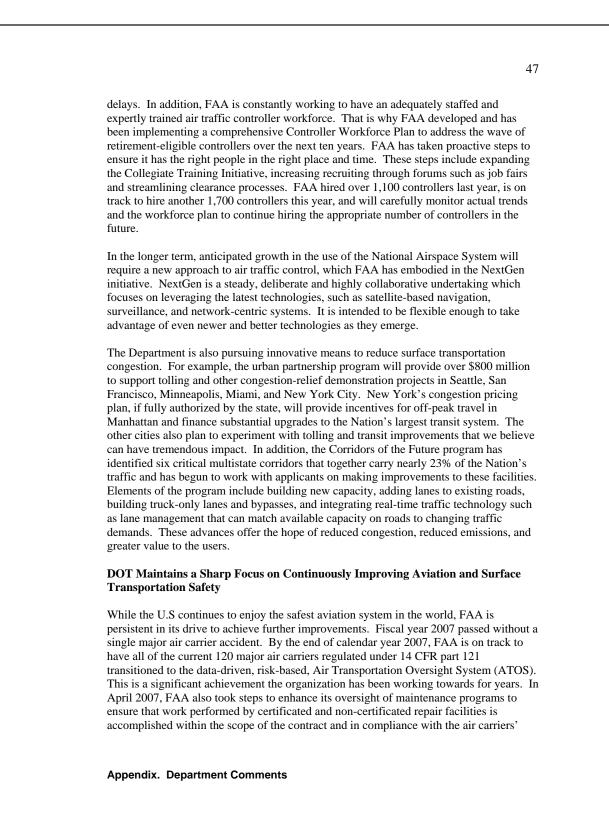
Exhibit. Comparison of FY 2008 and FY 2007 Top Management Challenges

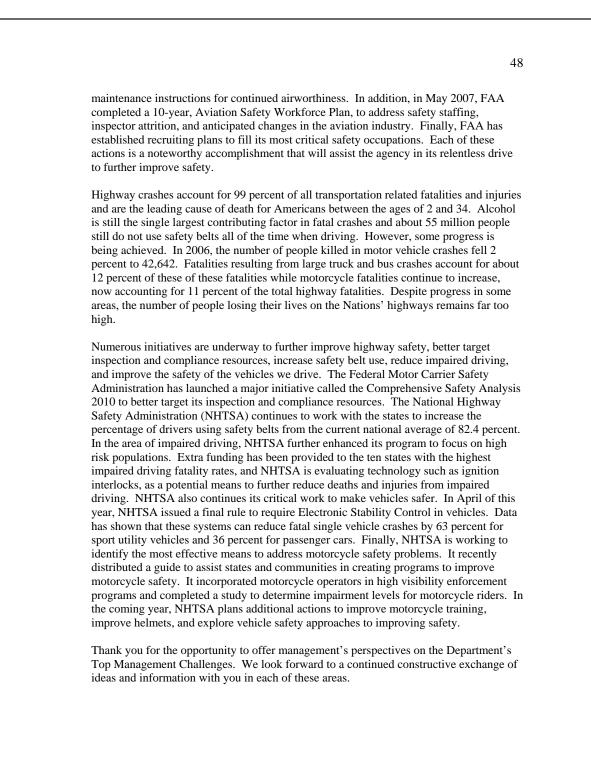
UNITED STATES DEPARTMENT OF TRANSPORTATION

44 APPENDIX. DEPARTMENT COMMENTS Memorandum U.S. Department of Transportation Office of the Secretary of Transportation ACTION: Departmental Comments on the OIG Draft Subject: Report - Top Management Challenges, Department of Date: October 30, 2007 Transportation allis Scheintey Phyllis F. Scheinberg Reply to Attn. of: From: Assistant Secretary for Budget and Programs/Chief Financial Officer To: Calvin L. Scovel III Inspector General The U.S. continues to enjoy the world's foremost transportation system, which offers unprecedented connectivity and safety that is a bedrock of this Nation's economic prosperity. Throughout the last century, the U.S. built the most extensive highway system in the world and developed a far-reaching National Airspace System. However, today our transportation system faces significant challenges. We value the perspectives offered in the Office of Inspector General's (OIG) report on the Top Management Challenges and will make good use of the information it contains. However, several items cited reflect larger national policy issues, not simply departmental management and performance concerns. Therefore, we are taking this opportunity to offer some additional perspective on the top issues facing the Department. Congestion and delays on the Nation's highways and airspace are now widespread and acute, affecting both passenger travel and freight movement, and ultimately the nation's economic well being. In the past 20 years, hours of delay and wasted fuel have each increased by more than 400 percent. In 2005, highway and transit congestion wasted 4.2 billion hours of time and 2.9 billion gallons of fuel. The cost for this wasted time, fuel and the lost productivity associated with it, exceeds \$170 billion per year, and continues to worsen. In aviation, while we continue to enjoy the safest period in aviation history, congestion and delays continue to grow, stretching the capacity of our aviation system to the limit. This past summer saw record delays in flights across the country, up nearly 20 percent compared to just one year ago. The sum total of aircraft delays during this period was more than 15 years, with nearly half of that in the New York/New Jersey/Philadelphia region alone. The Department will continue to address these issues to the fullest extent of its authority. We are seeking to turn these challenges from the last century into the opportunities of this **Appendix. Department Comments**









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