H.R. 4441
Aviation Innovation, Reform, and Reauthorization Act of 2016

As ordered reported by the House Committee on Transportation and Infrastructure on February 11, 2016

SUMMARY

H.R. 4441 would establish a federally chartered, not-for-profit corporation (known as the ATC Corporation) to assume responsibility for operating the U.S. air traffic control system, a function currently performed by the Federal Aviation Administration (FAA). The proposed corporation would be governed by a 13-member board of directors composed of individuals representing certain aviation stakeholder groups. To finance the costs of providing air traffic services, the bill would authorize the corporation to charge fees to users of such services and to issue debt.

The Secretary of Transportation would manage and oversee the transition of operational control over air traffic services to the proposed corporation, which would occur on October 1, 2019. Until that time, the bill would authorize appropriations for the FAA to continue to operate, maintain, and modernize the air traffic control system and carry out the agency’s other traditional responsibilities related to civil aviation. After the proposed transition of all air traffic control-related personnel and programs to the ATC Corporation, the bill would authorize additional appropriations for FAA and the Department of Transportation (DOT) to continue to meet traditional aviation-related responsibilities, such as performing certain regulatory and safety-related activities, making grants to airports to support capital projects, and subsidizing air service to certain rural communities.

Although the proposed corporation would be independent and autonomous, in CBO’s view it would effectively act as an agent of the federal government in carrying out a regulatory function. Hence, in keeping with guidance specified by the 1967 President’s Commission on Budget Concepts, the proposed corporation’s cash flows should be recorded in the federal budget. More specifically, fees charged by the proposed corporation should be recorded as federal revenues, and its expenditures should be classified as federal direct spending.
On that basis, CBO estimates that enacting H.R. 4441 would:

- Increase net direct spending by $89 billion over the 2017-2026 period;
- Increase net revenues by $69.2 billion over the 2017-2026 period;
- Increase net deficits stemming from revenues and direct spending by about $19.8 billion over the 2017-2026 period; and
- Result in discretionary outlays totaling $50.8 billion over the 2017-2026 period, subject to the appropriation of authorized amounts.

Pay-as-you-go procedures apply because enacting the legislation would affect direct spending and revenues. CBO estimates that enacting H.R. 4441 would increase net direct spending and on-budget deficits by more than $5 billion in one or more of the four consecutive 10-year periods beginning in 2027.

The estimated changes in direct spending and revenues under H.R. 4441 reflect CBO’s assessment of the budgetary effects of enacting H.R. 4441 as a stand-alone measure. Ultimately, however, the net budgetary impact of activities related to air traffic control under H.R. 4441 would depend on the details of additional legislation that lies beyond the scope of this cost estimate. H.R. 4441 does not address other important aspects of federal activities related to aviation—in particular, provisions of current law that govern aviation-related excise taxes that cover most of the FAA’s costs related to air traffic services and other programs. Similarly, although H.R. 4441 authorizes a marked reduction in future appropriations for the FAA that comport with the envisioned transfer of operational control over the air traffic control system to the ATC Corporation, whether subsequent reductions in future discretionary funding for the agency occur would depend on appropriations enacted by future Congresses. As a result, the ultimate net budgetary impact of corporatizing air traffic control under H.R. 4441 could differ considerably from the estimates presented in this analysis, but CBO cannot provide an analysis of such potential impacts because they would depend on the details of future legislation (see Additional Information).

H.R. 4441 contains intergovernmental mandates as defined in the Unfunded Mandates Reform Act (UMRA) because it would preempt state and local authorities. However, CBO estimates that the bill would impose no duty on state or local governments that would result in additional spending or a loss of revenues.

H.R. 4441 would impose a private-sector mandate as defined in UMRA on users of air traffic services provided by the ATC Corporation by requiring those entities to pay fees. The bill would impose additional mandates on air carriers, operators of unmanned aircraft, manufacturers of aircraft, and owners of certain towers in rural areas. CBO estimates that
the aggregate cost of those mandates would well exceed the annual threshold established in UMRA for private-sector mandates ($154 million in 2016, adjusted annually for inflation).

ESTIMATED COST TO THE FEDERAL GOVERNMENT

The estimated budgetary effect of H.R. 4441 is shown in the following table. The costs of this legislation fall within budget function 400 (transportation).

<table>
<thead>
<tr>
<th>By Fiscal Year, in Billions of Dollars</th>
<th>2017-2021</th>
<th>2017-2026</th>
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</thead>
<tbody>
<tr>
<td>CHANGES IN DIRECT SPENDING</td>
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<td>Estimated Budget Authority</td>
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<td>REVENUES</td>
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<tr>
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<td>CHANGES IN SPENDING SUBJECT TO</td>
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<td>APPROPRIATION</td>
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<td>Estimated Outlays</td>
<td>10.5</td>
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</table>

Note: Components may not sum to totals due to rounding.

Background

The FAA is responsible for most federal activities related to civil aviation under current law. The agency receives funding for most of its programs and activities—operations; maintaining air navigation facilities and equipment; and research, engineering, and development—in annual appropriation acts. The bulk of those funds are used to operate and maintain the air traffic control system. In addition, the FAA receives funding for the Airport Improvement Program (AIP), which makes grants to public-use airports for projects to enhance safety and increase their capacity; that funding is provided in authorization acts as contract authority (a mandatory form of budget authority). Finally, DOT receives annual appropriations to make payments to air carriers to subsidize their costs to provide service to certain small communities.
Historically, the funds for aviation programs come from the general fund of the Treasury and the Airport and Airway Trust Fund. That trust fund is an accounting mechanism in the federal budget that records receipts from certain taxes paid by users of the air transportation system—primarily excise taxes on commercial airline tickets—and spending to cover a portion of the FAA’s programs and DOT’s payments to air carriers. Annual spending from the fund is not automatically triggered by the collection of tax revenues or transfers of interest earnings but is controlled by annual appropriation acts.

In 2016, CBO estimates, revenues credited to the Airport and Airway Trust Fund will total $14.4 billion, slightly less than the $14.5 billion in new funding provided from the fund for FAA programs and DOT’s payments to air carriers. The FAA also received $2 billion in appropriations from the general fund for 2016, bringing total discretionary funding (including appropriations and obligation limitations on AIP contract authority) to $16.5 billion. That amount includes:

- $10.9 billion for the full operating and capital costs of providing air traffic control services (including ancillary support services);
- $3.35 billion for AIP grants to airports;
- $2.1 billion for other FAA activities, particularly those related to regulating the safety of civil aviation; and
- $175 million for DOT to make payments to air carriers that provide service to certain rural communities through the Essential Air Service program.

If discretionary resources for FAA and DOT aviation activities (including obligation limitations) were assumed to remain at the 2016 level adjusted for inflation, CBO projects that discretionary funding would grow to $19.8 billion in 2026. CBO also estimates that, if aviation-related excise taxes credited to the Airport and Airway Trust Fund are extended, they will grow at roughly the same rate as the economy and total $20.8 billion in 2026.¹

**Major Provisions**

H.R. 4441 would establish the ATC Corporation, a federally chartered, not-for-profit corporation to assume responsibility for operating the U.S. air traffic control system. The proposed corporation would be governed by an 11-member board of directors composed of individuals representing certain aviation stakeholders. The Secretary of Transportation would appoint two members; others would be nominated by the members of principal

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¹ Under current law, most aviation-related excise taxes that provide funding for federal aviation programs are scheduled to expire after March 31, 2016; however, under rules governing CBO’s baseline projections, revenues from excise taxes that are credited to trust funds are assumed to continue in effect beyond their scheduled expiration date.
organizations representing mainline air carriers; noncommercial owners and recreational operators of general aviation aircraft; owners, operators, and users of general aviation aircraft used exclusively to further business interests; air traffic controllers; airline pilots; and aerospace manufacturers.

Under H.R. 4441, the ATC Corporation would be the only entity authorized to provide air traffic services within U.S. airspace other than the Department of Defense and certain other entities with existing responsibilities. The corporation also would be responsible for maintaining and modernizing the infrastructure and equipment associated with the air traffic control system. To cover the costs of operating and managing that system, the bill would authorize the corporation to charge fees to users of air traffic control services, require users to pay such fees, and specify that the corporation could enforce that requirement in U.S. courts. In addition to funding from user fees, the corporation would be authorized to issue debt to finance its costs. The bill would prohibit the corporation from issuing or selling equity shares in the corporation.

The Secretary of Transportation would manage and oversee the transition of operational control over air traffic services to the proposed corporation, which would occur on October 1, 2019. The bill outlines procedures for identifying the federal personnel to be transferred to the corporation and specifies that certain provisions of laws related to labor-management relations that currently apply to the FAA and its labor organizations would continue to apply to affected employees. Transferred employees would have the option to retain their existing federal health and retirement benefits or could choose to participate in benefit plans offered by the new corporation.

The bill also would convey to the corporation, for no consideration, any real and personal property (including air navigation facilities), and related licenses, patents, software rights, and other items deemed necessary for providing air traffic services. The conveyance would include access to systems using the dedicated portion of the electromagnetic spectrum used by the FAA to provide air traffic services and data from such systems. Under the bill, ownership of real property at FAA’s technical facilities would revert to the federal government if the ATC Corporation deemed such property to be no longer needed to provide air traffic services and the Secretary of Transportation determined that a reversion was necessary to protect the national interest. The bill would authorize the ATC Corporation to sell other real property (except for certain property located in noncontiguous states) and use the proceeds to make capital investments related to air traffic control infrastructure.

Until fiscal year 2020, when the transfer would occur, the FAA would continue to operate, maintain, and modernize the air traffic control system and carry out the agency’s other primary responsibilities related to regulating the safety of civil aviation and providing grants to airports to support capital projects. Starting in 2020, the ATC Corporation would assume responsibility for air traffic control. The FAA and DOT would continue to carry
out certain activities related to regulating the safety of civil aviation (including air navigation services provided by the ATC Corporation), providing AIP grants to airports, and making payments to subsidize air service to rural communities.

**Budgetary Treatment of the ATC Corporation**

Although the proposed corporation would be independent and autonomous, in CBO’s view it would effectively act as an agent of the federal government in carrying out a regulatory function. In particular:

- The ATC Corporation would be the only entity authorized to provide air traffic services within U.S. airspace other than the Department of Defense and certain other entities with existing responsibilities.

- The bill would authorize the corporation to charge fees to users of air traffic control services, require users to pay such fees, and specify that the corporation could enforce that requirement in U.S. courts.

Hence, in keeping with guidance specified by the 1967 President’s Commission on Budget Concepts, the proposed corporation’s cash flows should be recorded in the federal budget. Although the report issued by that commission has no legal status, it remains the primary authoritative statement on the scope of the federal budget. The commission recommended that, “the budget should, as a general rule, be comprehensive of the full range of federal activities. Borderline agencies and transactions should be included…unless there are exceptionally persuasive reasons for exclusion.”

CBO has adhered to that principle since the Congressional budget process was established. For example, since the 1990s CBO and the Office of Management and Budget have included amounts collected and spent by the Universal Service Fund each year in the federal budget even though the company that manages the fund is not part of the federal government and the charges that telecommunications companies are required to pay do not flow through the U.S. Treasury.

More specifically, the user fees that would be assessed by the ATC Corporation should be classified as federal revenues, largely because of their compulsory nature. In CBO’s view, subsequent spending of such fees, as well as any spending financed by debt issued by the corporation (which would be backed by the entity’s authority to set fees at levels necessary to recover its costs and to compel users to pay such fees), should be classified as federal direct spending because that spending would not be contingent on any further legislation.

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BASIS OF ESTIMATE

H.R. 4441 would effectively reclassify, from discretionary to mandatory, federal spending related to air traffic control. Broadly speaking, CBO expects that the amount of spending for air traffic control under H.R. 4441 would be similar to the amount of spending for such activities reflected in CBO’s baseline projections. In that sense, increases in direct spending for the proposed ATC Corporation would reduce the need for future appropriations to the FAA. However, in CBO’s cost estimates for proposed legislation, changes in authorized spending subject to appropriation are not estimated relative to CBO’s baseline projections; rather, we report the differences between amounts authorized to be appropriated under proposed legislation and authorization levels specified for future years under current law. Under current law, no authorizations for federal aviation programs are in place beyond 2016.

For this estimate CBO assumes that H.R. 4441 will be enacted early in fiscal year 2017 and that appropriations will be provided as specified by the bill. Estimates of outlays are based on historical spending patterns for major activities carried out by the FAA. We also assume that the proposed transfer of operational control over air traffic control services would occur on the date specified in the legislation, that the ATC Corporation would begin to collect and spend user fees in fiscal year 2020, and that the corporation would continue to administer spending of balances previously appropriated to the FAA for activities related to air traffic control.

Over the next 10 years, CBO estimates that enacting H.R. 4441 would increase direct spending by $89.0 billion and increase revenues by $69.2 billion. Additionally, discretionary spending to implement the bill would total $50.8 billion, subject to appropriation of the authorized amounts, CBO estimates.

Direct Spending

Nearly all of the estimated increase in direct spending under H.R. 4441 represents spending by the proposed corporation. In addition, CBO estimates that transferring FAA employees to the ATC Corporation would affect federal spending for health and retirement benefits for some people. In contrast, CBO expects that conveying property related to air traffic control to the proposed corporation and authorizing the corporation to sell such property and spend the proceeds would have no significant net effect on the federal budget. Finally, H.R. 4441 would increase mandatory contract authority for the Airport Improvement Program, but because FAA’s authority to spend such contract authority would be subject to obligation limitations specified in annual appropriation acts, any resulting outlays would be considered discretionary.
### TABLE 2. EFFECTS ON DIRECT SPENDING AND REVENUES UNDER H.R. 4441

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<thead>
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<th></th>
<th>By Fiscal Year, in Billions of Dollars</th>
<th>2017-2017</th>
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<tbody>
<tr>
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<tr>
<td><strong>CHANGES IN DIRECT SPENDING</strong></td>
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<tr>
<td>Operations of the ATC Corporation</td>
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<tr>
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<td>Airport Improvement Program a</td>
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<td><strong>CHANGES IN REVENUES</strong></td>
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<td>Gross ATC Corporation Fees for Air Traffic Services</td>
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<tr>
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<td><strong>NET INCREASE IN THE DEFICIT FROM CHANGES IN DIRECT SPENDING AND REVENUES</strong></td>
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<tr>
<td>Impact on Deficit</td>
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<td>0.0</td>
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</tbody>
</table>

**Note:** * = between -$50 million and $50 million; Components may not sum to totals due to rounding.

a. Budget authority for the Airport Improvement Program is provided as contract authority, a mandatory form of budget authority; however outlays from that contract authority are subject to limitations on obligations specified in annual appropriation acts and are therefore considered discretionary.

**Operations of the ATC Corporation.** Under H.R. 4441 the ATC Corporation would have authority to levy fees on users of air traffic services and to use those amounts to cover all of
the entity’s financial requirements, including debt service costs stemming from the corporation’s authority to issue bonds. CBO estimates that resulting direct spending would total $89.0 billion over the 2020-2026 period.

For this estimate, CBO assumes that the corporation’s annual funding requirements would largely remain in line with current estimates of the FAA’s full operating and capital costs related to air traffic control. According to the FAA, funding related to air traffic control totals nearly $10.9 billion in 2016, and CBO estimates that such funding will support:

- $6.2 billion in costs related to compensation and benefits of staff throughout the FAA whose responsibilities relate primarily to air traffic control;

- $2.3 billion in capital spending related to air navigation facilities and equipment, including roughly $900 million for investments to modernize the air traffic control system;

- $2.4 billion for the cost of all other activities and ancillary services related to air traffic control.

Assuming that spending for personnel, facilities and equipment, and other expenses grow at rates of anticipated growth for wages and infrastructure-related investments, CBO estimates that the ATC Corporation would obligate roughly $12 billion in 2020 to assume control of those activities.

In addition, CBO expects that the corporation would increase capital spending relative to that base amount, particularly to make additional investments in facilities, equipment, and technologies related to modernizing the air traffic control system, commonly referred to as NextGen. Over the past several years, a wide range of studies and reports prepared by the DOT’s Inspector General, the Government Accountability Office (GAO), and aviation stakeholders generally characterize the FAA’s existing efforts to implement projects related to NextGen as behind schedule, particularly compared to technologies used by providers of air navigation services in other countries.³ In addition, representatives of organizations that would be represented on the proposed ATC Corporation’s board of directors have generally called for a reprioritization of modernization activities to

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accelerate the adoption of technologies that would increase the efficiency of air traffic operations.

According to the FAA, under current law, the agency plans to spend roughly $1 billion annually over the next several years for modernization activities. Under H.R. 4441, CBO expects that the corporation would exercise its authority to issue bonds to raise funds to make additional investments. The timing and magnitude of such investments is highly uncertain and would depend on priorities identified by the ATC Corporation. For this estimate, CBO assumes that additional capital spending related to modernization would average about $500 million annually, for a total annual average of about $1.5 billion over the 2020-2026 period.\(^4\)

All told, CBO estimates that budget authority recorded for the corporation would total $12.5 billion in 2020 and gradually increase to $14.6 billion by 2026, for a total of nearly $95 billion over the 2020-2026 period. That amount includes $4 billion in borrowing authority stemming from the corporation’s authority to issue bonds. CBO expects that most of the funding would be derived from fees that the corporation would charge for air traffic services, as discussed below under the heading “Revenues”. (In addition, CBO assumes that in the initial years following the transition, the ATC Corporation would oversee residual spending of amounts previously appropriated to the FAA for activities related to air traffic control.)

In total, assuming that outlays of the ATC Corporation would follow historical spending patterns for the FAA, CBO estimates that resulting expenditures would total $89 billion over the 2020-2026 period. That amount includes $55 billion in personnel costs, $19 billion for capital spending related to air navigation facilities and equipment (including $4 billion in additional investments to modernize such facilities and equipment), and $15 billion in other costs and ongoing expenses related to providing air traffic services. (Those amounts do not include residual spending of appropriations provided to the FAA before the proposed transition; see Spending Subject to Appropriation.)

**Changes in Civil Service Retirement and Health Benefits.** For purposes of this estimate, CBO assumes that the ATC Corporation would provide salaries and benefits that are comparable to those offered to FAA employees under current law. However, the proposed transition could cause some retirement-eligible employees to retire earlier than they would under current law. CBO estimates that about 5 percent of retirement-eligible employees in 2019 and 2020 would retire an average of one year earlier than under current

\(^4\) The authority to borrow directly from the public and then obligate amounts so borrowed is considered borrowing authority, a mandatory form of budget authority. In the case of the ATC Corporation, proceeds from the sale of bonds would be considered a means of financing and not reflected in budget totals. Rather, the budget would record obligations incurred against amounts borrowed at the time when such obligations occur, and outlays would reflect the timing and pace of capital acquisitions and related debt service costs.
Accelerated retirement for that group of about 500 employees (approximately one quarter of whom are estimated to be air traffic controllers) would, on net, increase mandatory spending for retirement annuities and Federal Employees Health Benefit premiums for the period of time during which those early retirees would remain employees under current law. Over the long run, however, annuity payments to such individuals—which are based in part on years of service and salary levels—would be slightly lower than they otherwise would have been if those individuals had remained in service and continued to earn pay increases. CBO projects that net increases in mandatory spending would total about $25 million over the 2019-2026 period.

**Budgetary Effects of Conveying Property and Access to Spectrum-Related Data and Systems to the ATC Corporation.** H.R. 4441 would specify procedures for the Secretary of Transportation to convey to the ATC Corporation, for no consideration, any real and personal property (including air navigation facilities) deemed necessary for providing air traffic services. Once the property was conveyed, the ATC Corporation could sell it and use the proceeds to make capital investments related to air traffic control infrastructure.

The proposed conveyances would affect the budget only to the extent that they would affect the timing or magnitude of cash flows that the affected assets would otherwise generate under current law. The FAA already has broad authority to sell such property and spend the proceeds; because any increase in receipts from property sales is offset by a corresponding increase in spending soon thereafter, the agency’s use of such authority ultimately has no significant net effect on federal spending. Similarly, although the timing and magnitude of receipts and spending associated with transactions pursued by the ATC Corporation could differ from those that might occur under current law, CBO estimates that transactions under H.R. 4441 would ultimately have no net effect on the federal budget.

H.R. 4441 would retain the existing legal framework governing the use of the electromagnetic spectrum. As a result, the spectrum currently used by the FAA would continue to be managed as federal frequencies but would be used by the ATC Corporation. For this estimate, CBO assumes that requiring the Secretary to provide the corporation access to spectrum-related data and systems would have no significant effect on the use or disposition of FAA’s spectrum assignments relative to current law. As a result, CBO estimates that the bill would have a negligible effect on direct spending for spectrum relocation or research activities and would not affect the timing or amount of offsetting receipts from future auctions of commercial licenses.

**Airport Improvement Program.** Through the AIP, the FAA provides grants to public-use airports for projects to enhance safety and increase airports’ capacity for passengers and aircraft. Under H.R. 4441, the FAA would continue to operate this program after transferring operational control over air traffic control to the ATC Corporation.
H.R. 4441 would provide contract authority for the AIP through fiscal year 2022. The Airport and Airway Extension Act of 2015 provided the FAA with $1.675 billion in contract authority through March 2016—or $3.35 billion on an annualized basis. Pursuant to provisions of law that govern CBO’s baseline projections, funding for certain expiring programs—such as contract authority for AIP—is assumed to continue beyond the scheduled expiration date for budget projection purposes. Consistent with that practice, CBO’s baseline incorporates the assumption that AIP contract authority over the 2017-2026 period will remain at the annualized 2016 level of $3.35 billion per year.

Relative to current law, H.R. 4441 would provide $24.4 billion in new contract authority. That amount includes $1.675 billion for the balance of 2016, $3.5 billion in 2017 and amounts for subsequent years that would gradually increase to just under $4 billion by 2022. Consistent with CBO’s methodology for projecting contract authority under proposed legislation, we assume that contract authority for AIP would continue to be provided after 2022 and would remain at $4 billion annually.

Under that assumption, CBO estimates that contract authority under H.R. 4441 would exceed the levels of contract authority already projected in the CBO baseline by $5.2 billion over the 2017-2026 period. (Because spending from contract authority is controlled by obligation limitations specified in annual appropriation acts, outlays of the AIP are considered discretionary.)

**Revenues**

Upon assuming operational control over air traffic services, H.R. 4441 would authorize the ATC Corporation to charge fees to users of such services, require users to pay such fees, and allow the corporation to enforce that requirement in U.S. courts. The bill would specify certain requirements that the corporation must follow in setting such fees. In particular, fees must be consistent with certain policies set forth by the International Civil Aviation Organization, which generally relate the reasonableness of fees levied by providers of air navigation services to the cost of providing such services. H.R. 4441 would specify that charges could not be imposed for services provided for operations that involve aircraft owned or operated by the U.S. military, piston engine aircraft, noncommercial aircraft operations of turbine engine aircraft, or air taxis in remote locations.

The bill would require the ATC Corporation to publish the initial schedule of fees at least 180 days before the date when it would assume operational control over air traffic services and outline procedures through which users of such services could dispute the reasonableness of such fees. Under the bill, the Secretary of Transportation would have a role in overseeing any such disputes.

For this estimate, CBO assumes that the corporation would begin collecting fees on October 1, 2019, and that such fees would be set as necessary to cover its annual funding
requirements (including debt service on any bonds issued). CBO estimates those amounts would initially total about $12.1 billion in 2020 and grow to $14.5 billion by 2026. We estimate that revenues from fees would be roughly equal to those amounts. ⁵

Because excise taxes and other indirect business taxes (such as assessments by the ATC Corporation) reduce the base of income and payroll taxes, higher amounts of those indirect business taxes would lead to reductions in revenues from income and payroll taxes. As a result, revenues from the fees collected by the corporation would be partially offset in the federal budget by a loss of income and payroll tax receipts equal to about 25 percent of the fees each year. Thus, CBO estimates that enacting H.R. 4441 would increase net revenues by about $69.2 billion over the 2020-2026 period.

**Spending Subject to Appropriation**

H.R. 4441 would authorize appropriations totaling $46.7 billion over the 2017-2022 period for the FAA and related DOT activities. Most of that amount—$40.5 billion—would be specifically authorized for the FAA to continue to operate all functions, including those related to air traffic control, through fiscal year 2019. Starting in 2020, the ATC Corporation would assume operational control over the air traffic control system, and the FAA and other offices within the Department of Transportation would continue to perform certain regulatory and safety-related functions, provide grants to airports to support capital projects, make payments to air carriers that provide service to certain rural communities, and carry out other administrative requirements. For those activities, the bill would authorize appropriations totaling $6.2 billion over the 2020-2022 period.

Assuming appropriation of the specified amounts (as well as the enactment of limitations on obligations of contract authority for the Airport Improvement Program that are consistent with funding levels provided under H.R. 4441), CBO estimates that discretionary spending to implement H.R. 4441 would total $50.8 billion over the 2017-2026 period (see Table 3).

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⁵. Estimates of user fees under H.R. 4441 are equivalent to roughly 70 percent of the total amount of aviation-related revenues included in CBO’s baseline projections. H.R. 4441 would not extend those taxes beyond their scheduled expiration nor would it address whether the fees would be collected or terminated once the ATC Corporation assumes responsibility for air traffic control. Under current law, most aviation-related excise taxes are scheduled to expire after March 31, 2016; however, pursuant to provisions of law that govern CBO’s baseline projections, such taxes are assumed to continue beyond their scheduled expiration date for budget projection purposes (see Additional Information).
### TABLE 3. CHANGES IN SPENDING SUBJECT TO APPROPRIATION UNDER H.R. 4441

<table>
<thead>
<tr>
<th>By Fiscal Year, in Billions of Dollars</th>
<th>2017-2021</th>
<th>2017-2026</th>
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</table>
| FAA Operations
  Authorization Level | 10.1 | 10.3 | 10.6 | 1.6 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 34.3 | 36.0 |
  Estimated Outlays | 9.0 | 10.0 | 10.4 | 2.6 | 1.9 | 1.8 | 0.2 | 0.1 | * | 0.0 | 34.0 | 36.0 |
| Air Navigation Facilities and Equipment
  Authorization Level | 2.9 | 3.0 | 3.0 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 | 9.5 |
  Estimated Outlays | 1.3 | 2.0 | 2.5 | 1.5 | 0.9 | 0.6 | 0.3 | 0.1 | * | * | 8.2 | 9.3 |
| Airport Improvement Program a
  Authorization Level | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
  Estimated Outlays | * | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 1.3 | 4.3 |
| Essential Air Service and Other Activities
  Estimated Authorization Level | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.2 |
  Estimated Outlays | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | * | 0.0 | 0.0 | 0.9 | 1.2 |
| Total Changes
  Estimated Authorization Level | 13.2 | 13.5 | 13.8 | 2.0 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 44.6 | 46.7 |
  Estimated Outlays | 10.5 | 12.4 | 13.4 | 4.6 | 3.5 | 3.1 | 1.1 | 0.8 | 0.7 | 0.7 | 44.4 | 50.8 |

**Notes:** FAA = Federal Aviation Administration; * = less than $50 million.

a. Budget authority for the Airport Improvement Program is provided as contract authority, a mandatory form of budget authority; however, outlays from that contract authority are subject to limitations on obligations specified in annual appropriation acts and are therefore considered discretionary.

**FAA Operations.** H.R. 4441 would authorize appropriations totaling $31 billion over the 2017-2019 period for FAA operations, primarily for salaries and expenses related to operating the air traffic control system. (Funding for FAA operations in 2016 totals $9.9 billion.) Starting in 2020, responsibility for most activities funded through that account would shift to the ATC Corporation, and the FAA would remain responsible for a much smaller set of regulatory and safety-related activities. For those remaining purposes the bill would authorize appropriations totaling $5 billion over the 2020-2022 period. Assuming appropriation of the amounts authorized over the 2017-2022 period, CBO estimates that resulting outlays would total $36 billion over the 2017-2026 period.
Air Navigation Facilities and Equipment. H.R. 4441 would authorize appropriations totaling $8.9 billion over the 2017-2019 period for programs to maintain and modernize infrastructure and systems for communication, navigation, and surveillance related to air travel. (Funding for facilities and equipment totals nearly $2.9 billion in 2016.) Starting in 2020 the ATC Corporation would assume primary responsibility for operating, maintaining, and modernizing such infrastructure and equipment. The bill would authorize additional appropriations totaling $592 million over the 2020-2022 period for the FAA to carry out residual responsibilities related to the safety of air navigation facilities and equipment that would not be performed by the ATC Corporation. Assuming appropriation of the authorized amounts, CBO estimates that resulting outlays would total $9.3 billion over the 2017-2026 period (and $244 million in later years).

Airport Improvement Program. The proposed transfer of control over air traffic control would not affect the AIP, which the FAA would continue to administer under H.R. 4441. CBO estimates that contract authority for AIP grants to airports under H.R. 4441 would exceed the amounts of contract authority already assumed in the CBO baseline by $5.2 billion over the 2017-2026 period. Such grants support planning and development of capital projects to enhance the infrastructure and capacity of public-use airports.

Assuming that annual appropriations acts set obligation limitations for AIP spending that are equal to the levels of contract authority projected under H.R. 4441, CBO estimates that discretionary outlays for the program over the 2017-2026 period would total $4.3 billion more than amounts projected in CBO’s baseline through 2026 (and $938 million in later years).

Essential Air Service and Other Activities. H.R. 4441 would authorize appropriations totaling $178 million in 2017 and $1.1 billion over the 2017-2022 period for the Essential Air Service program, through which DOT makes payments to air carriers that provide service to certain rural communities. (Discretionary funding for such payments in 2016 totals $175 million.) The bill also would authorize the appropriation of $6 million annually over the 2017-2022 period for grants to help small communities enhance air service and would require DOT and the Government Accountability Office to complete various studies, reports, and administrative requirements. Assuming appropriation of amounts specified and estimated to be necessary for required studies, reports and administrative activities, CBO estimates that resulting outlays would total $1.2 billion over the next 10 years.
PAY-AS-YOU-GO CONSIDERATIONS

The Statutory Pay-As-You-Go Act of 2010 establishes budget-reporting and enforcement procedures for legislation affecting direct spending or revenues. The net changes in outlays and revenues that are subject to those pay-as-you-go procedures are shown in the following table.

| CBO Estimate of Pay-As-You-Go Effects for H.R. 4441, as ordered reported by the House Committee on Transportation and Infrastructure on February 11, 2016 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NET INCREASE IN THE DEFICIT | | | | | | | | | | | |
| Statutory Pay-As-You-Go Impact | 0 | 0 | 0 | 10 | 226 | 2,180 | 3,008 | 3,473 | 3,634 | 3,628 | 3,689 | 2,416 | 19,848 |
| Memorandum: | | | | | | | | | | | |
| Changes in Outlays | 0 | 0 | 0 | 10 | 9,227 | 11,466 | 12,585 | 13,347 | 13,800 | 14,108 | 14,476 | 20,703 | 89,019 |
| Changes in Revenues | 0 | 0 | 0 | 0 | 9,001 | 9,286 | 9,577 | 9,874 | 10,166 | 10,480 | 10,787 | 18,287 | 69,171 |

INCREASE IN LONG TERM DIRECT SPENDING AND DEFICITS

CBO estimates that enacting the legislation would increase net direct spending and on-budget deficits by more than $5 billion in at least one of the four consecutive 10-year periods beginning in 2027. The effects in future years would be a continuation of the trends shown for the first decade.

ADDITIONAL INFORMATION

The estimated changes in direct spending and revenues under H.R. 4441 reflect CBO’s assessment of the budgetary impacts of enacting H.R. 4441 as a stand-alone measure. Ultimately, however, the net budgetary impact of activities related to air traffic control under H.R. 4441 would depend on the details of subsequent legislation that lies beyond the scope of this cost estimate. CBO cannot predict whether such additional legislation will be enacted pursuant to H.R. 4441, but expects that the overall net budgetary impact of shifting responsibility for air traffic control to the ATC Corporation would not necessarily increase future deficits by the amounts reflected in this cost estimate if additional legislation consistent with H.R. 4441 was enacted.

Broadly speaking, while CBO estimates that the proposed corporation would spend more than the FAA otherwise will under current law for capital investments to modernize infrastructure and equipment related to the air traffic control system, CBO expects that
underlying costs related to operating and maintaining that system would not change significantly under H.R. 4441. As a result, CBO expects that shifting responsibility for those costs to the proposed corporation would not materially change the magnitude of spending related to air traffic control if future appropriations for the FAA’s retained responsibilities were reduced accordingly to reflect the shift—from mandatory to discretionary—of such spending. Under H.R. 4441, CBO expects that overall amounts of such federal spending would remain more or less the same, with incremental increases in spending stemming primarily from the ATC Corporation’s authority to issue debt to finance additional investments related to modernization.

Similarly, if future tax-related legislation separate from H.R. 4441 was enacted to reduce existing aviation-related excise taxes by amounts equivalent to new user fees that would be charged by the ATC Corporation under H.R. 4441, the resulting amount of revenues available to support air traffic control (and other aviation activities) would be largely unchanged and could continue to cover most, if not all aviation-related spending.

Thus, if such additional legislation were enacted—consistent with the proposed changes envisioned on H.R. 4441—to effectively keep both aviation-related spending and revenues in line with current levels, CBO expects that resulting net increases in future deficits would largely reflect increased capital spending by the ATC Corporation to finance investments related to modernization, which CBO estimates will totally about $4 billion over the period covered by this estimate. (That estimate of modernization spending is uncertain and could be higher or lower depending on future investment-related decisions of the ATC Corporation.)

**ESTIMATED IMPACT ON STATE, LOCAL, AND TRIBAL GOVERNMENTS**

H.R. 4111 contains intergovernmental mandates as defined in UMRA because it would preempt state authority over air traffic control services as well as state or local laws that regulate working hours and compensation structures for the motor carrier industry. Although the preemptions would limit the application of state and local laws and regulations, CBO estimates that the bill would impose no duty on state or local governments that would result in additional spending or a loss of revenues. The bill would benefit public airports by expanding federal block grants and the ability of airports to charge passenger fees that support airport improvement projects. Any costs those entities incur to meet grant requirements would result from complying with conditions of federal assistance.
ESTIMATED IMPACT ON THE PRIVATE SECTOR

The bill contains several private-sector mandates as defined in UMRA. CBO estimates that the aggregate cost of those mandates would well exceed the annual threshold established in UMRA for private-sector mandates ($154 million in 2016, adjusted annually for inflation).

User Fees for Air Traffic Control Services

The bill would require users of air traffic services provided by the ATC Corporation to pay fees for the use of those services. Such users would include air carriers and other private entities. CBO estimates that those fees would total about $12 billion in 2020 and gradually increase thereafter.

Other Requirements For Air Carriers

The bill would impose several other mandates on air carriers. Specifically, the bill would require that air carriers:

- Refund baggage fees for delayed baggage and waive change fees in some circumstances;
- Provide training to pilots, flight attendants and other employees and develop a fatigue risk management plan for flight attendants;
- Disclose when a minor cannot be seated next to an adult in his or her party;
- Provide information about countries that may require an airplane to be treated with insecticides and include links to their customer service plans on their websites;
- Ensure that medical kits contain supplies for treating children in emergencies, if determined to be appropriate by the FAA; and
- Comply with the bill’s prohibitions against in-flight voice communications on mobile devices and fees for the use of the lavatory.

On the basis of information from the Department of Transportation about revenues from baggage fees and mishandled baggage, CBO estimates that the cost of the mandate to refund baggage fees for delayed baggage would total less than $10 million annually. On the basis of information about existing training programs and current industry practices, CBO estimates that the cost of most of the other mandates would be small and that none would impose significant additional costs on air carriers relative to UMRA’s threshold.
Requirements For Operators of Unmanned Aircraft Systems

The bill would direct the FAA to issue regulations restricting the use of unmanned aircraft systems near certain facilities. It would prohibit an operator from flying an unmanned aircraft over an amusement park without permission from the owner of the park. The bill also would restrict the use of small unmanned aircraft systems (aircraft weighing less than 55 pounds) near chemical facilities and oil refineries. CBO expects that the cost of getting permission from the owner of an amusement park or adjusting the flight of such unmanned aircraft would be small.

Requirements For Other Entities

The bill would impose a mandate on manufacturers by requiring them to install a secondary cockpit barrier on aircraft that are manufactured for delivery to passenger air carriers in the United States. Such barriers include retractable screens and would be installed on new aircraft delivered to passenger air carriers in the United States. Based on information from industry sources, CBO estimates that the cost of installing such barriers would total no more than $15 million annually.

The bill would impose a mandate on owners of certain towers located in rural or agricultural areas by requiring those towers to be marked so that they are visible to operators of airplanes distributing pesticides and other chemicals. This mandate would apply to owners or operators of meteorological and other towers between 50 feet and 200 feet tall. The cost of this requirement is uncertain because no data are available on the number of such towers that would need to comply. The mandate cost also would depend on the regulations to be developed by the FAA. The bill would direct the FAA to issue regulations requiring those towers to be marked in a manner consistent with FAA’s current voluntary guidance. In addition, some states currently require towers to have markings visible to aircraft. For those reasons CBO expects that the cost of the mandate would not be substantial relative to UMRA’s threshold.

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