

Federal Aviation Administration

National Airspace System

Capital Investment Plan

Appendix C

Fiscal Years 2014 – 2018

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BLI Number	Capital Budget Program	FY 2014 Budget Total	FY 2015 Est.	FY 2016 Est.	FY 2017 Est.	FY 2018 Est.
Activity 1: Engineering, Development, Test and Evaluation		\$392.3	\$464.0	\$531.6	\$653.3	\$661.3
1A01	Advanced Technology Development and Prototyping (ATDP)	\$33.5	\$30.2	\$30.0	\$34.3	\$36.9
1A02	NAS Improvement of System Support Laboratory	\$1.0	\$1.0	\$1.0	\$1.0	\$1.0
1A03	William J. Hughes Technical Center Facilities	\$12.0	\$12.0	\$12.0	\$12.0	\$12.0
1A04	William J. Hughes Technical Center Infrastructure Sustainment	\$6.0	\$8.1	\$9.2	\$10.3	\$10.0
1A05	Data Communication in support of Next Generation Air Transportation System (NextGen)*	\$115.5	\$149.5	\$177.4	\$225.6	\$230.0
1A06	Next Generation Air Transportation System (NextGen) – Demonstrations and Infrastructure Development*	\$24.7	\$24.8	\$21.6	\$27.0	\$28.9
1A07	Next Generation Air Transportation System (NextGen) – System Development*	\$61.5	\$59.5	\$65.6	\$75.0	\$85.3
1A08	Next Generation Air Transportation System (NextGen) – Trajectory Based Operations (TBO)*	\$18.0	\$32.0	\$37.5	\$47.0	\$51.0
1A09	Next Generation Air Transportation System (NextGen) – Reduce Weather Impact*	\$6.0	\$10.3	\$8.4	\$8.4	\$4.0
1A10	Next Generation Air Transportation System (NextGen) – Arrivals/Departures at High Density Airports*	\$7.0	\$28.4	\$31.0	\$55.6	\$51.5
1A11	Next Generation Air Transportation System (NextGen) – Collaborative Air Traffic Management (CATM)*	\$41.0	\$33.2	\$27.0	\$34.0	\$32.1
1A12	Next Generation Air Transportation System (NextGen) – Flexible Terminal and Airports*	\$15.0	\$18.6	\$14.5	\$20.5	\$21.8
1A13	Next Generation Air Transportation System (NextGen) – System Networked Facilities*	\$9.0	\$9.0	\$10.8	\$11.0	\$12.0
1A14	Next Generation Air Transportation System (NextGen) – Future Facilities* **	\$10.0	\$24.7	\$61.0	\$67.0	\$30.0
1A15	Next Generation Air Transportation System (NextGen) – Performance Based Navigation (PBN) – Metroplex Area Navigation (RNAV)/Required Navigation Performance (RNP)*	\$32.2	\$22.7	\$22.7	\$22.7	\$22.7
1A16X	Next Generation Air Transportation System (NextGen) – Safety, Security and Environment*	\$0.0	\$0.0	\$2.0	\$2.0	\$32.0
Activity 2: Procurement and Modernization of Air Traffic Control Facilities and Equipment		\$1,523.2	\$1,512.4	\$1,482.7	\$1,429.2	\$1,466.4
A. En Route Programs		\$643.7	\$561.9	\$548.6	\$569.3	\$614.0
2A01	En Route Automation Modernization (ERAM)	\$26.1	\$0.0	\$0.0	\$0.0	\$0.0
2A02	En Route Automation Modernization (ERAM) – D-Position Upgrade and System Enhancements (ERAM System Enhancements and Technology Refreshments and ERAM Sector Enhancements)*	\$65.0	\$71.0	\$110.0	\$145.0	\$187.5
2A03	En Route Communications Gateway (ECG)	\$2.2	\$8.7	\$2.9	\$2.0	\$2.0
2A04	Next Generation Weather Radar (NEXRAD)	\$4.1	\$7.1	\$6.5	\$6.3	\$5.5
2A05	ARTCC Building Improvements/Plant Improvements	\$53.0	\$53.0	\$61.0	\$63.0	\$63.5
2A06	Air Traffic Management (ATM)	\$13.8	\$1.9	\$0.0	\$0.0	\$0.0
2A07	Air/Ground Communications Infrastructure	\$5.5	\$3.0	\$3.2	\$3.2	\$3.2
2A08	Air Traffic Control En Route Radar Facilities Improvements	\$5.9	\$5.9	\$0.0	\$0.0	\$0.0

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2A09	Voice Switching Control System (VSCS)	\$20.0	\$9.8	\$9.9	\$11.3	\$11.2
2A10	Oceanic Automation System	\$4.8	\$2.0	\$0.0	\$0.0	\$0.0
2A11	Next Generation Very High Frequency Air/Ground Communications System (NEXCOM)	\$20.3	\$40.0	\$42.0	\$50.0	\$50.0
2A12	System-Wide Information Management (SWIM)*	\$70.5	\$61.8	\$69.5	\$42.3	\$38.5
2A13	Automatic Dependent Surveillance - Broadcast (ADS-B) NAS Wide Implementation*	\$282.1	\$246.3	\$188.4	\$189.6	\$174.9
2A14	Windshear Detection Service (WDS)	\$2.0	\$4.3	\$5.2	\$4.5	\$1.0
2A15	Weather and Radar Processor (WARP)	\$0.7	\$0.0	\$0.0	\$0.0	\$0.0
2A16	Collaborative Air Traffic Management Technologies (CATMT)*	\$29.4	\$3.3	\$15.6	\$18.0	\$30.0
2A17	Colorado ADS-B Wide Area Multilateration (WAM) Cost Share*	\$3.4	\$0.0	\$0.0	\$0.0	\$0.0
2A18	Tactical Flow Time Based Flow Management (TBFM)*	\$10.5	\$0.5	\$3.6	\$1.8	\$0.1
2A19	ATC Beacon Interrogator (ATCBI) – Technology Refresh	\$1.0	\$0.0	\$0.0	\$0.0	\$0.0
2A20	Next Generation Weather Processor (NWP)*	\$23.5	\$43.3	\$30.8	\$32.3	\$46.6
	B. Terminal Programs	\$492.5	\$560.8	\$542.4	\$508.9	\$460.2
2B01	Airport Surface Detection Equipment - Model X (ASDE-X)	\$12.1	\$13.4	\$10.5	\$0.0	\$0.0
2B02	Terminal Doppler Weather Radar (TDWR) – Provide	\$3.6	\$0.0	\$0.0	\$0.0	\$0.0
2B03	Standard Terminal Automation Replacement System (STARS) (TAMR Phase 1)	\$45.5	\$56.7	\$79.3	\$60.0	\$46.8
2B04	Terminal Automation Modernization/ Replacement Program (TAMR Phase 3)	\$136.6	\$143.6	\$132.2	\$89.7	\$20.0
2B05	Terminal Automation Program	\$2.6	\$2.6	\$2.7	\$2.7	\$2.8
2B06	Terminal Air Traffic Control Facilities - Replace	\$72.0	\$100.0	\$100.0	\$110.0	\$110.0
2B07	ATCT/Terminal Radar Approach Control (TRACON) Facilities - Improve	\$53.2	\$52.7	\$52.7	\$53.1	\$53.1
2B08	Terminal Voice Switch Replacement (TVSR)	\$5.0	\$0.0	\$0.0	\$0.0	\$0.0
2B09	NAS Facilities OSHA and Environmental Standards Compliance	\$26.0	\$26.0	\$26.0	\$26.0	\$29.0
2B10	Airport Surveillance Radar (ASR-9) Service Life Extension Program (SLEP)	\$10.9	\$13.6	\$3.8	\$3.5	\$1.0
2B11	Terminal Digital Radar (ASR-11) Technology Refresh and Mobile Airport Surveillance Radar (MASR)	\$19.4	\$21.1	\$10.1	\$6.7	\$4.4
2B12	Runway Status Lights (RWSL)	\$35.3	\$26.2	\$20.6	\$0.0	\$0.0
2B13	National Airspace System Voice System (NVS)*	\$16.0	\$30.2	\$15.1	\$15.0	\$15.0
2B14	Integrated Display System (IDS)	\$4.1	\$16.9	\$13.3	\$5.7	\$1.1
2B15	Remote Monitoring and Logging System (RMLS) Technology Refresh	\$1.0	\$2.2	\$1.1	\$3.4	\$4.5
2B16	Mode S Service Life Extension Program (SLEP)	\$7.3	\$8.1	\$11.3	\$14.0	\$23.8
2B17	Surveillance Interface Modernization (SIM)	\$6.0	\$0.0	\$0.0	\$0.0	\$0.0
2B18	Terminal Flight Data Manager (TFDM)*	\$23.5	\$42.0	\$55.3	\$107.1	\$137.4
2B19	Voice Recorder Replacement Program (VRRP)	\$6.2	\$0.0	\$0.0	\$0.0	\$0.0
2B20	Precision Runway Monitor Replacement (PRMR) – Multilateration Technology Upgrade	\$5.0	\$1.0	\$3.0	\$7.0	\$7.5
2B21	Integrated Terminal Weather System (ITWS)	\$1.3	\$4.4	\$5.4	\$5.0	\$3.8
	C. Flight Service Programs	\$17.1	\$16.1	\$27.1	\$33.2	\$37.3
2C01	Aviation Surface Weather Observation System	\$10.0	\$8.0	\$8.0	\$10.0	\$10.0

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2C02	Future Flight Services Program (FFSP)	\$3.0	\$5.0	\$16.0	\$18.0	\$21.8
2C03	Alaska Flight Service Facility Modernization (AFSFM)	\$2.9	\$2.9	\$2.0	\$2.0	\$2.0
2C04	Weather Camera Program	\$1.2	\$0.2	\$1.1	\$3.2	\$3.5
	D. Landing and Navigation Aids Programs	\$207.8	\$199.9	\$180.2	\$145.9	\$137.0
2D01	VHF Omnidirectional Radio Range (VOR) with Distance Measuring Equipment (DME)	\$8.3	\$2.5	\$2.5	\$2.5	\$2.5
2D02	Instrument Landing Systems (ILS) – Establish	\$7.0	\$7.0	\$7.0	\$7.0	\$7.0
2D03	Wide Area Augmentation System (WAAS) for GPS	\$109.0	\$105.0	\$105.7	\$97.9	\$100.9
2D04	Runway Visual Range (RVR) & Enhanced Low Visibility Operations (ELVO) Program	\$6.0	\$6.0	\$6.0	\$6.0	\$4.0
2D05	Approach Lighting System Improvement Program (ALSIP)	\$3.0	\$3.0	\$3.0	\$3.0	\$3.0
2D06	Distance Measuring Equipment (DME)	\$4.0	\$3.0	\$3.0	\$3.0	\$3.0
2D07	Visual Nav aids - Establish/Expand	\$2.5	\$2.0	\$2.0	\$2.0	\$2.0
2D08	Instrument Flight Procedures Automation (IFPA)	\$4.5	\$2.4	\$3.0	\$2.0	\$2.0
2D09	Navigation and Landing Aids – Service Life Extension Program (SLEP)	\$3.0	\$3.0	\$3.0	\$3.0	\$6.0
2D10	VASI Replacement – Replace with Precision Approach Path Indicator	\$2.5	\$5.0	\$5.0	\$5.0	\$5.0
2D11	Global Positioning System (GPS) Civil Requirements	\$20.0	\$20.0	\$0.0	\$0.0	\$0.0
2D12	Runway Safety Areas – Navigation Mitigation	\$38.0	\$41.0	\$40.0	\$14.5	\$1.6
	E. Other ATC Facilities Programs	\$162.1	\$173.7	\$184.3	\$171.9	\$217.9
2E01	Fuel Storage Tank Replacement and Monitoring	\$8.7	\$6.8	\$14.0	\$14.0	\$16.0
2E02	Unstaffed Infrastructure Sustainment	\$33.0	\$33.0	\$33.3	\$34.4	\$44.4
2E03	Aircraft Related Equipment Program	\$10.4	\$9.0	\$11.4	\$9.0	\$9.0
2E04	Airport Cable Loop Systems – Sustained Support	\$5.0	\$5.0	\$5.0	\$5.0	\$10.0
2E05	Alaskan Satellite Telecommunication Infrastructure (ASTI)	\$11.0	\$11.4	\$11.1	\$0.0	\$0.0
2E06	Facilities Decommissioning	\$6.5	\$5.0	\$6.0	\$6.0	\$10.0
2E07	Electrical Power Systems – Sustain/Support	\$85.0	\$100.0	\$100.0	\$100.0	\$125.0
2E08	FAA Employee Housing and Life Safety Shelter System Service	\$2.5	\$0.0	\$0.0	\$0.0	\$0.0
2E09X	Independent Operational Test/Evaluation	\$0.0	\$3.5	\$3.5	\$3.5	\$3.5
	Activity 3: Non-Air Traffic Control Facilities and Equipment	\$148.6	\$132.9	\$139.3	\$124.3	\$121.8
	A. Support Programs	\$135.3	\$118.7	\$124.2	\$109.3	\$106.8
3A01	Hazardous Materials Management	\$20.0	\$20.0	\$20.0	\$20.0	\$20.0
3A02	Aviation Safety Analysis System (ASAS)	\$12.7	\$11.9	\$20.2	\$11.3	\$15.3
3A03	Logistics Support Systems and Facilities (LSSF)	\$10.0	\$1.0	\$1.5	\$1.1	\$1.4
3A04	National Airspace System (NAS) Recovery Communications (RCOM)	\$12.0	\$12.0	\$12.0	\$12.0	\$12.0
3A05	Facility Security Risk Management	\$15.0	\$15.1	\$15.0	\$15.1	\$15.1
3A06	Information Security	\$13.0	\$12.0	\$12.0	\$12.0	\$12.0
3A07	System Approach for Safety Oversight (SASO)	\$9.5	\$12.5	\$9.5	\$9.5	\$9.0
3A08	Aviation Safety Knowledge Management Environment (ASKME)	\$12.2	\$10.2	\$7.5	\$4.2	\$0.0

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3A09	Data Center Optimization	\$1.0	\$0.0	\$0.0	\$0.0	\$0.0
3A10	Aerospace Medical Equipment Needs (AMEN)	\$5.0	\$0.0	\$2.5	\$0.0	\$0.0
3A11	Aviation Safety Information Analysis and Sharing (ASIAS)*	\$15.0	\$15.0	\$15.0	\$15.0	\$15.0
3A12	National Test Equipment Program	\$3.0	\$2.0	\$4.0	\$4.0	\$4.0
3A13	Mobile Assets Management Program	\$3.0	\$4.0	\$2.0	\$2.0	\$3.0
3A14	Aerospace Medicine Safety Information System (AMSIS)	\$3.9	\$3.0	\$3.0	\$3.1	\$0.0
	B. Training, Equipment and Facilities	\$13.3	\$14.2	\$15.1	\$15.0	\$15.0
3B01	Aeronautical Center Infrastructure Modernization	\$12.3	\$13.2	\$14.1	\$14.0	\$14.0
3B02	Distance Learning	\$1.0	\$1.0	\$1.0	\$1.0	\$1.0
	Activity 4: Facilities and Equipment Mission Support	\$231.7	\$246.8	\$248.5	\$247.5	\$259.2
4A01	System Engineering (SE2020) and Development Support	\$35.6	\$36.2	\$35.0	\$35.0	\$35.0
4A02	Program Support Leases	\$42.1	\$45.2	\$46.7	\$48.2	\$49.7
4A03	Logistics Support Services (LSS)	\$11.5	\$11.5	\$11.0	\$11.0	\$11.0
4A04	Mike Monroney Aeronautical Center Leases	\$17.9	\$18.4	\$18.8	\$19.3	\$19.7
4A05	Transition Engineering Support	\$16.5	\$16.5	\$18.0	\$20.0	\$20.0
4A06	Technical Support Services Contract (TSSC)	\$25.0	\$25.0	\$25.0	\$25.0	\$30.0
4A07	Resource Tracking Program (RTP)	\$4.0	\$4.0	\$4.0	\$4.0	\$3.8
4A08	Center for Advanced Aviation System Development (CAASD)	\$70.0	\$75.0	\$75.0	\$75.0	\$80.0
4A09	Aeronautical Information Management Program*	\$9.1	\$15.0	\$15.0	\$10.0	\$10.0
	Activity 5: Personnel Compensation, Benefits and Travel	\$482.0	\$495.9	\$503.9	\$516.7	\$527.4
5A01	Personnel and Related Expenses	\$482.0	\$495.9	\$503.9	\$516.7	\$527.4
<p>* Titles with asterisk represent NextGen BLIs ** Additional funding to cover the cost of construction is included in the proposed Immediate Transportation Investment in FY 2014. Note: BLI numbers with X represent outyear programs not requested in the FY 2014 President's Budget. Note: FY 2015-2018 outyear funding amounts are estimates.</p>						
Total Year Funding		\$2,777.8	\$2,852.0	\$2,906.0	\$2,971.0	\$3,036.0
Targets		\$2,777.8	\$2,852.0	\$2,906.0	\$2,971.0	\$3,036.0