

Federal Aviation Administration

National Airspace System

Capital Investment Plan

Appendix E

Fiscal Years 2012 – 2016

LIST OF ACRONYMS AND ABBREVIATIONS

--Number--	
3D	three dimensional
4D	four dimensional
4D-OTM	four dimensional-oceanic trajectory management
4D Wx SAS	four dimensional weather single authoritative source
--A--	
ABRR	airborne reroute execution
ACEF	aircraft cabin environment facility
ACE-IDS	automated surface observing system controller equipment-information display system
ACEPS	ARTCC critical and essential power systems
ADAM	advanced dynamic airspace management
ADAS	automated weather observation data acquisition system
ADD	airworthiness directives development
ADM	add drop multiplexer
A/DMT	arrival/departure management tool
ADS-B	automatic dependent surveillance-broadcast
ADS-C	automatic dependent surveillance-contract
ADS-ITP	automatic dependent surveillance in-trail procedures
ADS-R	automatic dependent surveillance-rebroadcast
AEDT	aviation environmental design tool
AEFS	advanced electronic flight strip
AeroMACS	aeronautical mobile airport communications system
AFIS	automatic flight inspection system
AFN	Air Traffic Service Facilities Notification
AFS	Office of Flight Standards Service
AFS-400	FAA Flight Technologies and Procedures Division
AFSM	Alaskan flight service modernization
AFSS	automated flight service station
A/G	air-to-ground
AGIS	airport geographic information system
AGL	above ground level
AI	aeronautical information
AIM	aeronautical information management
AIO	Office of the Chief Information Officer
AIR	FAA Aircraft Certification Service
AirNav	airports and navigations aids
AIMS	aeronautical information system modernization
AISR	aeronautical information system replacement
AIXM	aeronautical information exchange model
AJE	ATO en route and oceanic services
ALL	assimilate lessons learned
ALS	approach lighting system
ALSF-2	approach lighting system with sequenced flashing light model 2
ALSIP	approach lighting system improvement program
ALTRV	altitude reservations
AMASS	airport movement area safety system

AMEN	aerospace medical equipment needs
AMMS	automated maintenance management system
AMOFSG	Aerodrome Meteorology Observation and Forecast Study Group
AMP	airspace management program
AMQ	Office of Acquisition Services
AMRS	aeronautical mobile (R) service
AMS	acquisition management system
ANF	air navigation facilities
ANICS	Alaskan national airspace system interfacility communications system
ANS	automation notification system
ANSP	air navigation service providers
ANT	automated NextGen tower
AOC	airline operational control
AOCC	Atlantic operations control center
APMT	aviation portfolio management tool
APTS	AVN process tracking system
AR	authorization required
ARE	aircraft and related equipment
ARMS	airspace resource management system
ARMT	airport resource management tool
ARSR	air route surveillance radar
ARTCC	air route traffic control center
ARTS	automated radar terminal system
ARTS IE/IEE	automated radar terminal system model IE/ model IIE
ARTS IIIE	automated radar terminal system model IIIE
ASAS	aviation safety analysis system
ASDE-3	airport surface detection equipment – model 3
ASDE-X	airport surface detection equipment – model x
ASDP	advanced signal data processor
ASI	aviation safety inspectors
ASIAS	aviation safety information analysis and sharing
ASKME	aviation system knowledge management environment
ASOS	automated surface observing system
ASR	airport surveillance radar
ASR-7, 8, 9, 11	airport surveillance radar model 7, 8, 9, and 11
ASSC	airport surface surveillance capability
ASTERIX	all purpose structured Eurocontrol surveillance information exchange
ASTI	Alaskan satellite telecommunication infrastructure
ASWON	automated surface weather observation network
ATC	air traffic control
ATCBI	air traffic control beacon interrogator
ATCBI-4, 5, and 6	air traffic control beacon interrogator model 4, 5, and 6
ATCSCC	air traffic control system command center
ATCT	air traffic control tower
ATDP	advanced technology development prototyping
ATIS	automated terminal information service
ATM	air traffic management
ATN	aeronautical telecommunication network
ATN	aviation training network
ATO	Air Traffic Organization
ATOP	advanced technologies and oceanic procedures
ATS	air traffic services

AUM	arrival uncertainty management
AVN	Office of Aviation System Standards
AVS	Office of Aviation Safety
AWOS	automated weather observing system
AWSS	automated weather sensor systems
AXSL	ASDE-X safety logic
--B--	
BAC	budget estimates at completion
BCAR	business case analysis report
BEBS	best equipped best served
BLI	budget line item
BPM	business process management
BUEC	back up emergency communication
BW	bandwidth
BWM	bandwidth manager
--C--	
C2	command and control
C3	command and control communications
CAASD	Center for Advanced Aviation System Development
CACR	collaborative airspace constraint resolution
CAI	contractor acceptance inspection
CAMI	civil aerospace medical institute
CARF	central altitude reservation function
CARTS	common-automated radar tracking system
CAS	commercially available software
CAST	commercial aviation safety team
CAT	category
CATM	collaborative air traffic management
CATMT	collaborative air traffic management technologies
CBI	computer-based instruction
CCS	conference control switch
CD 2	common digitizer (converts analog radar data to digital format)
CDA	continuous descent approach
CDM	collaborative decision making
CDP	concept development plan/ climb descent procedures
CDR	critical design review
CDTI	cockpit display of traffic information
CEA	compliance and enforcement actions
CERAP	center radar approach control
CFE	communications facilities enhancement
CFIT	controlled-flight-into-terrain
CFR	code of federal regulations
CHI	computer human interface
CI/EP	certification of imported/exported products
CIO	chief information officer
CIP	capital investment plan
CIWS	corridor integrated weather system
CIX	collaborative information exchange
CLEEN	continuous low energy, emissions and noise

CNS	communications, navigation and surveillance
Conops	concept of operations
CONUS	continental United States
COTS	commercial off-the-shelf
CPDLC	controller-pilot data link communications
CPDS	critical power distribution system
CRD	concept and requirements document
CRDR	concept requirements development readiness
CSMC	cyber security management center
CSPO	closely spaced parallel runway operations
CSPR	closely spaced parallel runways
CSSD	common status and structure data
CST	communication support team
CTAS	center TRACON automation system
CTP	collaborative trajectory planning
CTS	coded time source
CWAM	convective weather avoidance model
CWP	corporate work plan
--D--	
DAH	design approval holder
DALR	digital audio legal recorder
DARPA	Defense Advanced Research Projects Agency
DASI	digital altimeter setting indicator
DataComm	data communications
DCCI	data center consolidation initiative
DCE	data communication equipment
DCIS	data communications integrated services
DCL	departure clearance
DCNS	data communication air/ground network service
DCS	data communication system
DDN	direct entry digital NOTAM
DELPHI	DOT accounting system
DF	direction finder
DHS	Department of Homeland Security
DME	distance measuring equipment
DMN	data multiplexing network
DOC	Department of Commerce
DoD	Department of Defense
DOT	Department of Transportation
DOTS+	dynamic ocean tracking system plus
DP	decision point
DR	disaster recovery
D-side	data controller position
DSP	departure spacing program
DS/PP	designee supervision/past performance
DSR	display system replacement
DST	decision support tool
DTE	DDS (delegation option authorization/designated alteration station/special federal aviation regulation – 36) technical evaluations
DUATS	direct user access terminal system
DVD	digital virtual disc

DVRS	digital voice recorder system
--E--	
EA	enterprise architecture
EBUS	enhanced backup surveillance
EC	executive council
ECG	en route communication gateway
EDA	engineering design approval
EDC	enterprise data centers
EDR	eddy dissipation rate
e-FAROS	enhanced final approach runway occupancy signal
EFS	electronic flight strip
EFS	electronic file service
EFSTS	electronic flight strip transfer system
EFVS	enhanced flight vision systems
EMS	environmental management system
EOL	end of life
EON	emergency operations network
EOS	end of service
EOSH	environmental & occupational safety and health
EPA	Environmental Protection Agency
EPB	external boundary protection
EPI	enhanced precipitation identifiers
ER	environmental remediation
ERAM	en route automation modernization
ERIDS	en route information display system
ERP	enterprise resource planning
ES	extended squitter
ESAR	expedited search and rescue
E-Scan	electronic scan
ESCR	environmental site cleanup report
ESD	electrostatic discharge
ESRL	earth sciences research laboratory
ETA	estimated time of arrival
ETR	emergency transmitter replacement
ETVS	enhanced terminal voice switch
EUROCONTROL	European organization for the safety of air navigation
EVM	earned value management
--F--	
F-420	airport wind sensor model F-420
FAA	Federal Aviation Administration
FAALC	FAA logistics center
FACT	future airport capacity task
FANS	future air navigation system
FAROS	final approach runway occupancy signal
FBW	fly by wire
FBWTG	FAA bulk weather telecommunications gateway
FCI	facility condition index
FCST	forecast
FCT	federal contract tower

FDIO	flight data input/output
FDP2K	flight data processing 2000
F&E	facilities and equipment
FFRDC	federally funded research and development center
FI	flight inspection
FIAPA	flight inspection airborne processor application
FID	final investment decision
FIS-B	flight information service – broadcast
FISMA	federal information security management act
FM	frequency modulated
FMC	flight management computer
FMS	flight management system
FNS	federal NOTAM system
FOC	final operating capability
FOC	flight operations center
FPS	fixed position surveillance
FRD	final requirements document
FS21	flight service automation system
FSDO	flight standards district office
FSEP	facility service and equipment profile
FSRM	facility security risk management
FSS	flight service station
FST	fuel storage tank
FTI	FAA telecommunications infrastructure
FY	fiscal year
--G--	
GA	general aviation
GAO	Government Accountability Office
GBAS	ground-based augmentation system
GDP	gross domestic product
GEO	geosynchronous communication satellite
GIS	geographic information system
GNSS	global navigation satellite system
GPS	global positioning system
GPS RAIM	global positioning system receiver autonomous integrity monitoring
GRIB	gridded binary (data format)
GSA	General Services Administration
GSD	global sciences division
GUI	graphical user interface
--H--	
HADDS	Host ATM data distribution system
HAZMAT	hazardous materials
HCS	host computer system
HF	high frequency
HF	human factors
HITL	human-in-the-loop
HOST	host computer system
HRJ	hydrotreated renewable jet (fuel)
HSI	human system integration

HSPD	Homeland Security Presidential Directive
HUD	heads-up-display
HVAC	heating, ventilating and air conditioning
--I--	
IAPA	instrument approach procedures automation
IARD	investment analysis readiness decision
ICAO	International Civil Aviation Organization
ICMS	integrated control and management system
ICSS	integrated communications switching system
IDAC	integrated departure arrival capability
IDL	interference detection, location and mitigation
IDR	Incident detection and response
IDRP	integrated departure route planner
IDS	information display system
IDS	integrated display system
IEEE	institute of electrical and electronic engineers
IES	integrated enterprise solution
IFDO	international flight data object
IFP	instrument flight procedures
IFPA	instrument flight procedures automation
IFR	instrument flight rule
I&I	interface and integration
IID	initial investment decision
ILS	instrument landing system
IMC	instrument meteorological conditions
IOC	initial operating capability
IP	internet protocol
IPDS	instrument procedure development system
IPE	internal policy enforcement
IRU	inertial reference unit
ISCS	international satellite communication system
ISD	in service decision
ISO	international standards organization
ISPD	implementation strategy and planning document
ISR	in service review
ISS	information systems security
IT	information technology
ITP	in-trail procedures
ITU	International Telecommunication Union
ITWS	integrated terminal weather system
IVSR	interim voice switch replacement
IVT	interactive video teletraining
--J--	
JAWS	Juneau airport wind system
JPALS	joint precision approach and landing system
JPDO	joint planning and development
JRC	joint resources council

--K--	
KV	kilovolt
--L--	
L5	additional frequency for GPS satellites
LAACS	logical access and authorization control service
LAAS	local area augmentation system
LAHSO	land and hold short operations
LAN	local area network
LCGS	low cost ground surveillance
LCSS	logistical center support system
LDRCL	low-density radio communication link
LED	light emitting diode
LIDAR	light identification detection and ranging
LIS	logistics and inventory system
LLWAS	low-level wind shear alert system
LNAV	lateral navigation
LOA	letters of agreement
LOB	line of business
LOC	localizer
LP	localizer performance
LPDME	low power distance measuring equipment
LPGBS	lightning protection, grounding, bonding, and shielding
LPV	localizer performance with vertical guidance
LRIP	limited rate initial production
LRR	long-range radar
LRU	line replaceable units
LSS	logistics support services
LSSF	logistics support system and facilities
--M--	
MALSR	medium-intensity approach light system with runway alignment indicator lights
MAPS	meteorological and aeronautical planning system
MASR	mobile/transportable airport surveillance radar
MASS	maintenance automation system software
MDR	multimode digital radio
MEARTS	microprocessor en route automated radar tracking system
MicroEARTS	microprocessor en route automated radar tracking system
MIT/LL	Massachusetts Institute of Technology Lincoln Laboratory
MITRE	MITRE Corporation
MLAT	multilateration
MMAC	Mike Monroney Aeronautical Center
MOA	memorandum of agreement
MOCC	midstates operations control center
Mode S	mode select
MOIE	mission oriented investigation and experimentation
MOPS	minimum operational performance standards
MOU	memorandum of understanding
MPS	maintenance processor subsystem
MPT	meter point time

MSAD	monitor safety and analyzed data
MSRD	monitor safety related data
MTSR	maintenance test system replacements
MUX	Multiplexer
MWO	Meteorological Watch Office
--N--	
NADIN	national airspace data interchange network
NADIN MSN	national airspace data interchange network – message switching network
NADIN PSN	national airspace data interchange network – package switching network
NAFIS	next generation flight inspection system
NARP	national aviation research plan
NAS	national airspace system
NASA	National Aeronautics and Space Administration
NASE	NAS adaptive services environment
NASPAC	national airspace system performance analysis capability
NASR	national airspace system resources
Nav aids	navigation aids
NCAR	National Center for Atmospheric Research
NCIME	navigation aids control, interlock and monitoring equipment
NCP	NAS change proposal
NCV	national ceiling and visibility
NDB	non-directional beacon
NEISS	NAS enterprise information system security
NEO	network enabled operations
NEXCOM	next generation air/ground communications
NEXRAD	next generation weather radar
NextGen	next generation air transportation system
NEXTOR	National Center of Excellence for Aviation Operations Research
NIEC	NextGen integration and evaluation capability
NISC	national airspace system implementation support contract
NLIHA	NEXRAD legacy, icing, and hail algorithm
NLN	national logging network
NMCS	network management control system
NMR	NADIN MSN rehost
NNEW	NextGen network enabled weather
NOAA	National Oceanic and Atmospheric Administration
NOCC	national operations control center
NORDO	no radio
NOTAM	notice to airmen
NSPD 39	National Security Presidential Directives 39
NTSB	National Transportation Safety Board
NVS	national airspace system voice system
NWP	NextGen weather processor
NWS	National Weather Service
--O--	
OASIS	operational and supportability implementation system
OCAT	oceanic conflict advisory tool
OCD	operational capability demonstration
OCS	operational control segment

OCX	modernized operational control segment
OEAAA	obstruction evaluation/airport airspace analysis
OEP	operational evolution partnership
OFDPS	offshore flight data processing system
OI	operational improvement
O&M	operation and maintenance
OMB	Office of Management and Budget
Ops	operations
ORD	operational readiness demonstration
OSHA	Occupational Safety and Health Administration
OSPe	oversee system performance - external
OSPi	oversee system performance - internal
OTA	other transactions agreements
OT&E	operation test and evaluation
OTM	oceanic trajectory management
--P--	
P#	program element #
P3I	pre-planned product improvement
PAPI	precision approach path indicator
PATM	performance-based air traffic management
PBN	performance based navigation
PBWP	product based work plan
PCB	polychlorinated biphenyl
PCS	permanent change of station
PDARS	performance data analysis and reporting system
PDD	presidential decision directive
PDR	preliminary design review
PDU	power distribution unit
PER3	post ERAM release 3
PGW	protocol gateway
PIREPS	pilot reports
PLM	programming language for microcomputers
PM	meter points
PMC	program management committee
PNT	position, navigation and timing
POCC	pacific operations control center
PRM	precision runway monitor
PRM-A	precision runway monitor alternate
PS3	power systems sustain support
--R--	
R#	release number
RA	resolution advisory
RAIM	reliability and integrity monitor
RAMP	radar acquisition and mosaic processor
RAPCON	radar approach control
RAPT	route availability planning tool
RBRT	risk based resource targeting
RCE	radio control equipment
RCISS	regulation and certification infrastructure system safety

RCL	radio communication link
RCLR	radio communications link repeater
RCLT	radio communications link terminal
RCO	remote communications outlet
RCOM	recovery communications
R&D	research and development
RDA	radar data acquisition
RDVS	rapid deployment voice switch
RE&D	research, engineering, and development
REIL	runway end identifier lights
REL	runway entrance lights
RFFA	radio-frequency filter amplifier
RFI	radio frequency interference
RFI ELIM	radio frequency interference elimination
RI	runway incursion
RIL	runway intersection lights
RIRP	runway incursion reduction program
RMLS	remote monitoring and logging system
RMLS NRN	remote monitoring and logging system national RMM network
RMM	remote maintenance monitoring
RMMS	remote maintenance and monitoring system
RNAV	area navigation
RNP	required navigation performance
RNP-4	required navigation performance-4 nm
ROC	Radar Operations Center
RPG	radar product generator
RPM	revenue passenger mile
RSA	runway safety areas or assessments
R-side	radar controller position
RTA	required time of arrival
RTP	resource tracking program
RTR	remote transmitter/receiver
RUC	rapid update cycle
RVR	runway visual range
RWI	reduce weather impact
RWSL	runway status lights
--S--	
SAA	special activities airspaces
SAIDS	system Atlanta information display system
SAMS	special use airspace management system
SAPA	simplified aircraft-based paired approach
SAR	search and rescue
SARPS	standards and recommended practices
SAS	safety assurance system
SAS	single authoritative source
SASO	system approach for safety oversight
SAWS	standalone weather sensors
SBAS	satellite based augmentation system
SBS	surveillance and broadcast services
SC	special committee
SCIP	surveillance communication interface processor

SDAT	sector design and analysis tool
SDP	signal data processor
SESAR	Single European Sky ATM Research
SFA	special flight authorizations
SID	standard instrument departure
SIGWX	significant weather
SIM	surveillance interface modernization
SIR	screening information request
SITS	security integrated tool set
SLEP	service life extension program
SMA	surface movement advisor
SMS	safety management system or surface management system
SNT	staffed NextGen tower
SOA	service oriented architecture
SOP/LOA	standard operating procedure/letters of agreement
SpclAC	special airworthiness certifications
SPMO	Special Program Management Office
SPO	safety policy
SPR	safety promotion
SPS	standard positioning service
SRM	safety risk management
SRMD	safety risk management document
SRMDM	safety risk management decision memo
SSA	system safety assessment
SSB	single sideband
SSMIMO	subscriber station multi-input multi-output
STAR	standard terminal arrival routes
STARS	standard terminal automation replacement system
STARS/SL	STARS Lite
STBO	surface trajectory based operation
STD	standard
StdAC	standard airworthiness certifications
STDDS	SWIM terminal data distribution system
STEP	sustainment and technology evolution plan
STM	surface traffic management
STMP	special traffic management program
STN	satellite telephone network
STVS	small tower voice switch
SUA	special use airspace
SWIM	system-wide information management
--T--	
TACAN	tactical air navigation antenna
TAMR	terminal automation modernization replacement
TBA	trajectory based airspace
TBFM	time-based flow management
TBO	trajectory based operations
TCAS	traffic alert and collision avoidance system
TCM	taxi conformance monitoring
TDDS	terminal data distribution system
TDLS	tower data link service
TDWR	terminal Doppler weather radar

TFDM	tower flight data manager
TFM	traffic flow management
TFM-M	traffic flow management modernization
TFMS	traffic flow management system
TFR Bldr	temporary flight restriction builder
THL	takeoff hold lights
TIS-B	traffic information service-broadcast
TMA	traffic management advisor
TMI	traffic management initiative
TMU	traffic management unit
TPC	TFM processing center
TR	technical refresh
TRACON	terminal radar approach control
TRAMS	TCAS resolution advisory (RA) monitoring system
TRS-R	TFM remote site – reengineering
TSA w/A	traffic situation awareness with alerts
TSDE	traffic situation display re-engineering
TSSC	technical support services contract
TVSR	terminal voice switch replacement
TWIP	terminal weather information for pilots
--U--	
UAS	unmanned aircraft system
UAT	universal access transceiver
UAV	unmanned aerial vehicles
UFPP	unified flight planning and filing
UHF	ultra high frequency
UIS	unstaffed infrastructure sustainment
UPS	uninterruptible power source
URET	user request evaluation tool
USNS	U.S. Notices to Airmen system
--V--	
VASI	visual approach slope indicator
VDL	VHF data link
VDMR	VSCS display module replacement
VFR	visual flight rules
VHF	very high frequency
VITS	VSCS integrated test suite
VMC	visual meteorological conditions
VNAV	vertical navigation
VOIP	voice over internet protocol
VOR	very high frequency omni-directional range
VORTAC	very high frequency omni-directional range collocated with tactical air navigation
VRS	viewer response system
VSCS	voice switching and control system
VSPB	voice switch bypass system
--W--	
WAAS	wide-area augmentation system
WAFS	world area forecast system

WAM	wide area multilateration
WARP	weather and radar processor
WAT	work activity tracking
WBS	work breakdown structure
WiMAX	worldwide interoperability for microwave access
WINS	weather information network server
WJHTC	William J. Hughes Technical Center
WME	wind measuring equipment
WMO	World Meteorological Organization
WMSCR	weather message switching center replacement
WMSS	WARP maintenance and sustainment services
WP	work package
WRR	weather radar replacement
WRS	WAAS reference stations
WSDS	wind shear detection services
WSP	weather systems processor
WTMA	wake turbulence mitigation for arrivals
WTMD	wake turbulence mitigation for departures
WTMSR	wake turbulence mitigation for single runway
WTS	work tracking software
WTS-BMgmt	work tracking software - budget management
Wx	weather