

Abbreviations

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ACAS	airborne collision avoidance system	ASQP	Airline Service Quality Performance
ACARS	ARINC Communications and Reporting System	ASRS	Aviation Safety Reporting System
ACEE	Aircraft Energy Efficiency program	AST	Advanced Subsonic Technology
ADP	advanced ducted propeller	ASTA	Airport Surface Traffic Automation
ADS	automatic dependent surveillance	ATA	Air Transport Association
AEAP	Atmospheric Effects of Aviation Project	ATC	air traffic control
AERA	Automated En Route Air traffic control	ATCRBS	Air Traffic Control Radio Beacon System
AESA	Atmospheric Effects of Supersonic Aircraft program	ATCSCC	Air Traffic Control System Command Center
AGFS	Aviation Gridded Forecast System	ATM	air traffic management
AIRNET	Airport Network Simulation Model	ATN	Aeronautical Telecommunications Network
ALPA	Air Line Pilots Association	ATOMS	Air Traffic Operations Management System
AMASS	Airport Movement Area Safety System	AWIPS	Advanced Weather Interactive Processing System
ANC	Air Navigation Commission	AWOS	Automated Weather Observing System
AOR	FAA Operations Research Service	AWPG	Aviation Weather Products Generator
APO	FAA Office of Aviation Policy, Plans, and Management Analysis	BEA	Bureau of Economic Analysis
ARINC	Aeronautical Radio, Inc.	BWI	Baltimore-Washington International Airport
ARTCC	air route traffic control center	CAA	Civil Aviation Administration
ARTS	Automated Radar Terminal System	CAEP	ICAO Committee on Aviation Environmental Projection
ASDE	Airport Surface Detection Equipment	CAMI	Civil Aeromedical Institute
ASF	FAA Associate Administrator for Aviation Safety		
ASOS	Automated Surface Observing System		

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CASIS	Civil Aviation Security Information System	ECI	Engine Component Improvement program
CASR	Center for Aviation Systems Reliability	EDMS	Emissions and Dispersion Modeling System
CATER	Collection & Analysis of Terminal Records	EDS	explosives detection system
CBA	cost-benefit analysis	EFTA	European Free Trade Association
CD	compact disc	EMF	electromagnetic field
CERL	Construction Engineering Research Laboratory	EPA	Environmental Protection Agency
CFD	computational fluid dynamics	ESAS	Enhanced Situational Awareness System
CFIT	controlled flight into terrain	ETMS	Enhanced Traffic Management System
CIA	Central Intelligence Agency	EU	European Union (formerly European Community)
CIP	Capital Investment Plan	F&E	facilities and equipment
CNS	communications, navigation, and surveillance	FAA	Federal Aviation Administration
CO	carbon monoxide	FAEED	FAA Aircraft Engine Emissions Database
CODAS	Consolidated Operations and Delay Analysis System	FANS	Future Air Navigation System
CONDAT	consolidated data system	FAR	Federal Aviation Regulation
CRADA	Cooperative Research and Development Agreement	FAST	final approach spacing tool
CRM	crew resource management	FBI	Federal Bureau of Investigation
CRREL	Cold Regions Research and Engineering Laboratory	FCCSET	Federal Coordinating Council for Science, Engineering, and Technology
CRS	computerized reservation system	FDADS	Full Digital ARTS Display System
C/SOIT	Communications/Surveillance Operational Implementation Team	FFRDC	Federally Funded Research and Development Corporation
CST	computational structures technology	FICON	Federal Interagency Committee on Noise
CTAS	Center-TRACON Automation System	FLOWSIM	airport traffic flow simulation model
DA	descent advisor	FMS	flight management systems
DDAS	Daily Decision Analysis System	GA	general aviation
DNA	Defense Nuclear Agency	GATT	General Agreement on Tariffs and Trade
DNL	averaged day-night noise level; also, L_{dn}	GCM	general circulation model
DOD	Department of Defense	GCRP	Global Change Research Program
DOE	Department of Energy	GCS	Guidance and Control Software
DOI	Department of the Interior	GLONASS	Global Orbiting Navigational Satellite System
DOT	Department of Transportation	GNSS	global navigation satellite system
DUATS	Direct User Access Terminal Service	GOES	Geostationary Operational Environmental Satellite
E^3	Energy Efficient Engine program	GPS	Global Positioning System
EATCHIP	European Air Traffic Control Harmonisation and Integration Programme	GPWS	ground proximity warning system
ECAC	European Civil Aviation Conference	GRADE	Graphical Airspace Design Environment

HARS	high-altitude route system	NDE	nondestructive evaluation
HC	hydrocarbon	NEXRAD	next-generation weather radar
HF	human factors	NIASS	National Institute of Aerospace Studies and Services
HF	high frequency	NIST	National Institute of Standards and Technology
HSCT	high-speed civil transport	NMAB	National Materials Advisory Board
HSI	Human Systems Interface	NOAA	National Oceanographic and Atmospheric Administration
HSRP	High-Speed Research Program	NOx	nitrogen oxides
IAA/TOF	Interagency Agreements for the Transfer of Funds	NPDES	National Pollutant Discharge Elimination System
IATA	International Air Transport Association	NRC	National Research Council
ICAO	International Civil Aviation Organization	NSF	National Science Foundation
IFR	instrument flight rules	NSTC	National Science and Technology Council
IGIA	Interagency Group on International Aviation	NTSB	National Transportation Safety Board
ILS	instrument landing system	OAG	<i>Official Airline Guide</i>
IMC	instrument meteorological conditions	ODAPS	Oceanic Display and Planning System
INM	Integrated Noise Model	OMB	Office of Management and Budget
ITWS	Integrated Terminal Weather System	OPSNET	Operational Performance System Network
JAA	Joint Aviation Authorities	OPTIFLOW	optimized national traffic flow planning model
JAR	Joint Airworthiness Regulation	PADS	Planned Arrival and Departure System
LIDAR	light detection and ranging	PBE	portable breathing equipment
LOFT	Line Oriented Flight Training	PRM	Precision Runway Monitor
LTO	landing and takeoff cycle	PSA	Pacific Southwest Airlines
MLS	microwave landing system	PTRS	Program Tracking and Reporting Subsystem
MOA	Memorandum of Agreement	R&D	research and development
Mode-S	mode select	RAIM	receiver autonomous integrity monitoring
MOU	Memorandum of Understanding	RE&D	research, engineering, and development
MPAP	Multiple Parallel Approach Program	RF	radio frequency
MSD	multiple site damage	RNPC	required navigation performance capability
NACA	National Advisory Committee for Aeronautics	RSPA	Research and Special Programs Administration
NADIN	National Airspace Data Interchange Network	RTCA	Radio Technical Commission for Aeronautics
NANIM	National Noise Impact Model	SDAT	sector design analysis tool
NAS	National Airspace System	SDRS	Service Difficulty Reporting System
NASA	National Aeronautics and Space Administration		
NASPAC	National Airspace System Performance Analysis Capability		
NASSIM	NAS traffic simulation model		
NATCA	National Air Traffic Controllers Association		
NCAR	National Center for Atmospheric Research		

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SIMMOD	trademark name for airport and airspace simulation model	TMA	Traffic Management Advisor
SMARTFLO	expert system-based flow planning tool	TRACON	terminal radar approach control
SOIT	Satellite Operational Implementation Team	TSRV	Transport Systems Research Vehicle
SPAS	Safety Performance Analysis System	USAF	U.S. Air Force
SPEARS	Screeener Proficiency Evaluation and Reporting System	USATS	U.S. Air Traffic Services
SSR	secondary surveillance radar	USDA	U.S. Department of Agriculture
SST	supersonic transport	VFR	visual flight rules
TATCA	terminal ATC automation	VHF	very high frequency
TCAS	Traffic Alert and Collision Avoidance System	VNTSC	Volpe National Transportation Systems Center
TDWR	terminal Doppler weather radar	VOC	volatile organic compounds
		WES	Waterways Experimental Station
		WPMS	Work Program Management System
		WVAS	Wake Vortex Advisory System