



ICAO

Doc 9988

Guidance on the Development of States' Action Plans on CO₂ Emissions Reduction Activities

Third Edition, 2019



Approved by and published under the authority of the Secretary General

INTERNATIONAL CIVIL AVIATION ORGANIZATION

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AMENDMENTS

Amendments are announced in the supplements to the *Products and Services Catalogue*; the Catalogue and its supplements are available on the ICAO website at www.icao.int. The space below is provided to keep a record of such amendments.

RECORD OF AMENDMENTS AND CORRIGENDA

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ACRONYMS

ACI	Airports Council International
A-CDM	Airport collaborative decision-making
AEDT	Aviation Environmental Design Tool (United States FAA)
AES	Aviation Environmental System
AEM	Advanced Emissions Model
ANSP	Air navigation services provider
APER	Action Plan for Emissions Reduction
APU	Auxiliary power unit
A-SMGCS	Advanced surface movement guidance and control system
ASPIRE	Asia and South Pacific Initiative to Reduce Emissions
ASTM	American Society for Testing and Materials
ASUR	Alternative surveillance
ATAG	Air Transport Action Group
CAA	Civil Aviation Authority
CAEP	Committee on Aviation Environmental Protection
CANSO	Civil Air Navigation Services Organisation
CCO	Continuous climb operation
CDM	Clean Development Mechanism
CDO	Continuous descent operation
CNS/ATM	Communications, Navigation and Surveillance/Air Traffic Management
CO	Carbon monoxide
CO ₂	Carbon dioxide
CO _{2e}	Carbon dioxide equivalent
CORSIA	Carbon Offsetting and Reduction Scheme for International Aviation
EBT	Environmental Benefits Tool
EEA	European Environment Agency
EMEP	European Monitoring and Evaluation Programme
EUROCONTROL	European Organisation for the Safety of Air Navigation
FAA	Federal Aviation Administration
FAST	Future Aviation Scenario Tool (Manchester Metropolitan University)
FB	Fuel burn
FEGP	Fixed electrical ground power
FT	Fischer Tropsch
GANP	Global Air Navigation Plan
GATMOC	Global Air Traffic Management Operational Concept
GFAAF	Global Framework for Aviation Alternative Fuels
GHG	Greenhouse gas
GIACC	Group on International Aviation and Climate Change
GPU	Ground power unit
GSE	Ground support equipment
HEFA-SPK	Hydroprocessed Esters and Fatty Acids
IATA	International Air Transport Association
IFSET	ICAO Fuel Savings Estimation Tool
IPCC	Intergovernmental Panel on Climate Change
LED	Light emitting diode
LTO	Landing and take-off

LVP	Low visibility procedures
MAC	Marginal abatement cost
MBM	Market-based measure
MRV	Monitoring, Reporting and Verification
PBN	Performance-based navigation
PCA	Pre-conditioned air
PIRG	Planning and Implementation Regional Group
RNP	Required Navigation Performance
RTK	Revenue Tonne Kilometre
SAF	Sustainable Aviation Fuel
SARP	Standard and Recommended Practice
SID	Standard instrument departure
SKA	Synthetic kerosene with aromatics
SPK	Synthetic paraffinic kerosene
STAR	Standard instrument arrival
SURF	Surface operations
UNFCCC	United Nations Framework Convention on Climate Change