

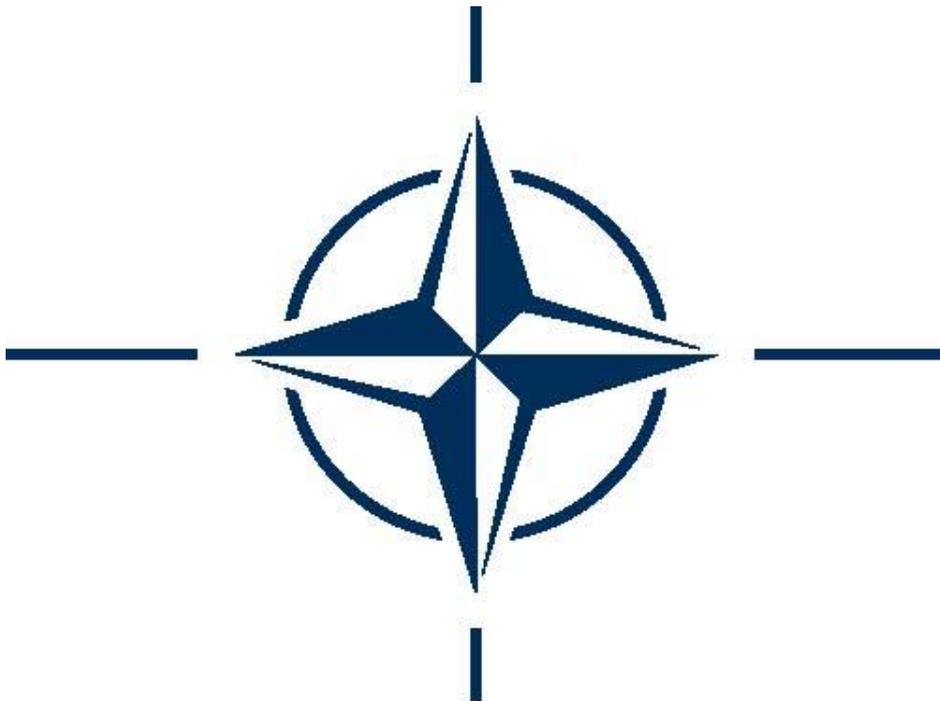
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NATO STANDARD

AEP-68

GUIDANCE IN THE SELECTION OF STANAGS FOR DEPLOYED AIR OPERATIONS SERVICES

Edition A Version 1
MARCH 2015



NORTH ATLANTIC TREATY ORGANIZATION

ALLIED ENGINEERING PUBLICATION

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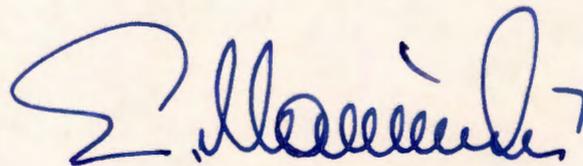
NORTH ATLANTIC TREATY ORGANIZATION (NATO)

NATO STANDARDIZATION OFFICE (NSO)

NATO LETTER OF PROMULGATION

12 March 2015

1. The enclosed Allied Engineering Publication AEP-68, Edition A, Version 1, GUIDANCE IN THE SELECTION OF STANAGS FOR DEPLOYED AIR OPERATIONS SERVICES, which has been approved by the nations in the Air Traffic Management Committee, is promulgated herewith. The agreement of nations to use this publication is recorded in STANAG 7210.
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Edvardas MAŽEIKIS
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CHAPTER 1

GUIDANCE IN STANAG SELECTION - LIST**0101. Purpose**

1. This publication is aimed to provide general guidance material for deployed Air Operations Services (AOS) by highlighting the minimum STANAGs list to be considered in the following operational fields: Airfield Marking, Lighting and Infrastructure; Airfield Services and Procedures; and Crash, Fire-fighting and Rescue activities.
2. During the build-up phase of the deployment, reports concerning the adherence to the listed requirements will be disseminated ASAP and those requirements will be implemented as soon as practicable. The non-adherence to requirements that are essential for the safety of flying operations will be disseminated via aeronautical publications such as NOTAM.
3. Where STANAGS describe procedures to be adhered to, the responsible management will make sure the concerned personnel apply these procedures when the occasions arise.

0102. Aircraft Operations – Fixed Wing

1. **VFR Operations At Non-Controlled Aerodromes**
 - a. STANAG 3052 – Aeronautical briefing facilities
 - b. STANAG 3102 - Flight Safety Cooperation in Common Ground/Air Space
 - c. STANAG 3158 – Day Marking of Airfield Runways and Taxiways
 - d. STANAG 3297 – Flame-Out Procedures
 - e. STANAG 3316 – Airfield Lighting
 - f. STANAG 3346 – Marking and Lighting of Airfield Obstructions
 - g. STANAG 3374 – Flight Inspection of NATO Radio/radar Navigation and Approach Aids - AEtP-1*
*If Visual Glide Slope Indicator System(s) is (are) installed
 - h. STANAG 3530 – Radio and/or Navigational Aid Failure Procedures for Operational Air Traffic (OAT) Flights
 - i. STANAG 3534 – Airfield Lighting, Marking and Tone Down Systems for Non-Permanent / Deployed Operations. (Airfield lighting is optional for VFR operations at uncontrolled aerodromes)*
*If it is decided STANAG 3158 is not applicable
 - j. STANAG 3634 – Runway Friction and Breaking Conditions

- k. STANAG 3970 – Content and Format of Flight Information Publication (FLIP) Terminal High/Low Instrument Approach Procedures and Aerodromes Diagrams/Layouts
 - l. STANAG 7005 – Exchange of Flight Information Publication (FLIP) Data
 - m. STANAG 7104 – Airfield Aircraft Arresting System Operating Procedures
 - n. STANAG 7131 – Aircraft Classification Number (ACN) Pavement Classification Number (PCN) – AEP-46
 - o. STANAG 7174 – Airfield Clearance Planes
 - p. STANAG 7181 – Standard Method for Airfield Pavement Condition Index (PCI) Survey – AEP- 56
2. **VFR Operations At Controlled Aerodromes.** In addition, the following STANAGs will be considered:
- a. STANAG 3758 – Signals Used by Air Traffic Service Units for Control of Pedestrian and Vehicular Traffic in the Manoeuvring Area of Airfields
 - b. STANAG 3817 – Standard R/T Phraseology to be used for Air Traffic Control
 - c. STANAG 7012 – Minimum Radiotelephony (R/T) Aerodrome Departure Procedures
 - d. STANAG 7025 – Air Traffic Management and Control of Minimum Operating Strips (MOS) Operations
 - e. STANAG 7134 – Control of Lighting at Airfields during NVG Operations*
*If it is decided such operations will take place
 - f. STANAG 7204 – NATO Minimum Requirements for Personnel Providing Air Traffic Services in NATO-led operations
3. **IFR Operations.** In addition, the following STANAGs will be considered:
- a. STANAG 3534 – Airfield Lighting, Marking and Tone Down Systems for Non-Permanent / Deployed Operations. (For the airfield lighting)*
*If it is decided STANAG 3316 is not applicable
 - b. STANAG 3759 – NATO supplement to ICAO DOC 8168-OPS/611, VOLUME II, for the preparation of instrument approach and departure procedures - AATCP-1
4. **Fighter Aircraft Operations.** In addition, the following STANAGs will be considered:
- a. STANAG 3697 – Airfield Aircraft Arresting Systems

0103 Helicopter Operations

1. The following STANAGs will be considered insofar decided to be applicable by the operational command after evaluation of the local situation (e.g. regular helicopter operations on an aerodrome or on a dedicated helicopter landing site).

2. VFR Operations

- a. STANAG 2487 – Use of Helicopters in Land Operations - Tactics, Techniques and Procedures - ATP-49
- b. STANAG 3052 – Aeronautical briefing facilities
- c. STANAG 3102 – Flight Safety Cooperation in Common Ground/Air Space
- d. STANAG 3158 – Day Marking of Airfield Runways and Taxiways
- e. STANAG 3346 – Marking and Lighting of Airfield Obstructions
- f. STANAG 3374 – Flight Inspection of NATO Radio/radar Navigation and Approach Aids - AETP-1*
*If Visual Glide Slope Indicator System(s) is (are) installed
- g. STANAG 3530 – Radio and/or Navigational Aid Failure Procedures for Operational Air Traffic (OAT) Flights
- h. STANAG 3534 – Airfield Lighting, Marking and Tone Down Systems for Non-Permanent / Deployed Operations. (Airfield lighting is optional for VFR operations at uncontrolled aerodromes)*
*If it is decided STANAG 3158 is not applicable
- i. STANAG 3619 – Helipad Marking and Lighting
- j. STANAG 3758 – Signals Used by Air Traffic Service Units for Control of Pedestrian and Vehicular Traffic in the Manoeuvring Area of Airfields
- k. STANAG 3817 – Standard R/T Phraseology to be used for Air Traffic Control
- l. STANAG 3970 – Content and Format of Flight Information Publication (FLIP) Terminal High/Low Instrument Approach Procedures and Aerodromes Diagrams/Layouts
- m. STANAG 7005 – Exchange of Flight Information Publication (FLIP) Data
- n. STANAG 7012 – Minimum Radiotelephony (R/T) Aerodrome Departure Procedures
- o. STANAG 7114 – Helipad Clearance Plane Requirements
- p. STANAG 7131 – Aircraft Classification Number (ACN) Pavement Classification Number (PCN) – AEP-46
- q. STANAG 7134 – Control of Lighting at Airfields during NVG Operations

- r. STANAG 7181 – Standard Method for Airfield Pavement Condition Index (PCI) Survey – AEP- 56
 - s. STANAG 7204 – NATO Minimum Requirements for Personnel Providing Air Traffic Services in NATO-led operations (ratification draft)
3. **IFR Operations.** In addition, the following STANAGs will be considered:
- a. STANAG 3534 – Airfield Lighting, Marking and Tone Down Systems for Non-Permanent / Deployed Operations. (For the airfield lighting)*
*If it is decided STANAG 3316 is not applicable
 - b. STANAG 3759 – NATO supplement to ICAO DOC 8168-OPS/611, VOLUME II, for the preparation of instrument approach and departure procedures - AATCP-1

0104 Crash, Fire-Fighting And Rescue Services (CFR)

1. NATO-led coalition planners will make sure STANAGS concerning CFR are adhered to ASAP and certainly no later than regular aircraft operations take place.
- a. STANAG 3712 – Airfield Rescue and Fire-Fighting Services - Identification Categories. (STANAG 3861 – Heliport Rescue and Fire-Fighting Services - Identification Categories, to be cancelled upon amalgamated with STANAG 3712)
 - b. STANAG 3863 – Minimum Fire Protection for Aircraft Ground Operations
 - c. STANAG 3896 – Aerospace Emergency Rescue and Mishap Response Information (Emergency Services)
 - d. STANAG 7048 – States of Crash Fire Readiness
 - e. STANAG 7049 – Personal Protective Equipment (PPE) Requirements for Fire and Emergency Operations
 - f. STANAG 7051 – Minimum Requirements for CFR Operations in Support of Home Station and Deployed Operations
 - g. STANAG 7132 – Aircraft Rescue and Fire-Fighting - Minimum Levels of Crash Fire Rescue
 - h. STANAG 7133 – Minimum Level of Crash, Fire-Fighting and Rescue (CFR) Service for Deployed Fixed Wing and Rotary Aircraft
 - i. STANAG 7145 – Minimum Core Competency Levels and Proficiency of Skills for NATO Firefighters
 - j. STANAG 7179 – Planning Guidelines for Fire And Emergency Response to Major Fire and Emergency Incidents
 - k. STANAG 7182 – Deployed Operations – Life Safety Fire Risk Assessment and Management

- I. STANAG 7184 – Deployed Operations – Asset Protection Fire Risk Assessment and Management
- m. STUDY 7206 – Assessment Guides for the Provision of Crash, Fire and Rescue Services During Deployed Operations

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CHAPTER 2

Guidance in STANAG Selection - Matrix

STANAG		Fixed Wing				Helicopters		CFR
Number	Title	VFR Non-controlled	VFR Controlled	IFR	Fighters	VFR	IFR	Services
2487	STANAG 2487 – Use of Helicopters in Land Operations - Tactics, Techniques and Procedures - ATP-49					X		
3052	Aeronautical briefing facilities	X	X	X	X	X	X	
3102	Flight Safety Cooperation in Common Ground/Air Space	X	X	X	X	X	X	
3158	Day Marking of Airfield Runways and Taxiways	X	X	X	X	X	X	
3297	Flame-Out Procedures	X	X	X	X			
3316	Airfield Lighting	X	X	X	X			
3346	Marking and Lighting of Airfield Obstructions	X	X	X	X	X	X	
3374	Flight Inspection of NATO Radio/radar Navigation and Approach Aids - AETP-1	X	X	X	X	X	X	
3530	Radio and/or Navigational Aid Failure Procedures for Operational Air Traffic (OAT) Flights	X	X	X	X	X	X	
3534	Airfield Lighting, Marking and Tone Down Systems for Non-Permanent / Deployed Operations	X	X	X	X	X	X	

STANAG		Fixed Wing				Helicopters		CFR
Number	Title	VFR Non-controlled	VFR Controlled	IFR	Fighters	VFR	IFR	Services
3619	Helipad Marking and Lighting					X	X	
3634	Runway Friction and Braking Conditions	X	X	X	X			
3697	Airfield Aircraft Arresting Systems				X			
3712	Airfield Rescue and Fire-Fighting Services - Identification Categories							X
3758	Signals used by Air Traffic Service Units for Control of Pedestrian and Vehicular Traffic in the Manoeuvring Area of Airfields		X	X	X	X	X	
3759	NATO supplement to ICAO DOC 8168-OPS/611, VOLUME II, for the preparation of instrument approach and departure procedures - AATCP-1			X	X		X	
3817	Standard R/T Phraseology to be used for Air Traffic Control		X	X	X	X	X	
3863	Minimum Fire Protection for Aircraft Ground Operations							X

STANAG		Fixed Wing				Helicopters		CFR
Number	Title	VFR Non-controlled	VFR Controlled	IFR	Fighters	VFR	IFR	Services
3896	Aerospace Emergency Rescue and Mishap Response Information (Emergency Services)							X
3970	Content and Format of Flight Information Publication (FLIP) Terminal High/Low Instrument Approach Procedures and Aerodromes Diagrams/Layouts	X	X	X	X	X	X	
7005	Exchange of Flight Information Publication (FLIP) Data	X	X	X	X	X	X	
7012	Minimum Radiotelephony (R/T) Aerodrome Departure Procedures		X	X	X	X	X	
7025	Air Traffic Management and Control of Minimum Operating Strips (MOS) Operations		X	X	X			
7048	States of Crash Fire Readiness							X
7049	Personal Protective Equipment (PPE) Requirements for Fire and Emergency Operations							X

STANAG		Fixed Wing				Helicopters		CFR
Number	Title	VFR Non-controlled	VFR Controlled	IFR	Fighters	VFR	IFR	Services
7051	Minimum Requirements for CFR Operations in Support of Home Station and Deployed Operations							X
7104	Airfield Aircraft Arresting System Operating Procedures	X	X	X	X			
7114	Helipad Clearance Plane Requirements					X	X	
7131	Aircraft Classification Number (ACN) Pavement Classification Number (PCN) - AEP-46	X	X	X	X	X	X	
7132	Aircraft Rescue and Fire-Fighting - Minimum Levels of Crash Fire Rescue							X
7133	Minimum Level of Crash, Fire-Fighting and Rescue (CFR) Service for Deployed Fixed Wing and Rotary Aircraft							X
7134	Control of lighting at airfields during NVG Operations		X	X	X	X	X	
7145	Minimum Core Competency Levels and Proficiency of Skills for NATO Firefighters							X
7174	Airfield Clearance Planes	X	X	X	X			

STANAG		Fixed Wing				Helicopters		CFR
Number	Title	VFR Non-controlled	VFR Controlled	IFR	Fighters	VFR	IFR	Services
7179	Planning Guidelines for Fire And Emergency Response to Major Fire and Emergency Incidents							X
7181	PCI Surveys – AEP-56	X	X	X	X	X	X	
7182	– Deployed Operations – Life Safety Fire Risk Assessment and Management							X
7184	Deployed Operations - Asset Protection Fire Risk Assessment and Management							X
7204	NATO minimum requirements for personnel providing Air Traffic Services in NATO-led operations		X	X	X	X	X	
7206	Assessment Guides for the Provision of Crash, Fire and Rescue Services During Deployed Operations							X

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