SES	AR	Active				LO	C/APT			
АОР	14.1				Remo	te Tower Se	ervices			
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

The remote tower concept enables air traffic control services (ATS) and aerodrome flight information services (AFIS) to be provided at aerodromes where such services are either currently unavailable, or where it is difficult or too expensive to implement and staff a conventional manned facility.

This Objective proposes to remotely provide ATC services and AFIS for one aerodrome handling low to medium traffic volumes or two low-density aerodromes (simultaneous by one operator), typically with traffic schedules comprising single movements, rarely exceeding two simultaneous movements per aerodrome. The basic configuration, which does not include augmentation features, is considered suitable for ATC and AFIS provision at low density airfields. However, the level and flexibility of service provision can be enhanced through the use of augmentation technology, such as an ATC surveillance display, surveillance and visual tracking, infrared cameras etc.

This Objective also covers the possibility to apply the remote tower concept as a contingency solution in facility known as Remote Contingency Tower (RCT). This solution can be used when the local tower is not available and services need to be provided from a back-up location. The target environment for the majority of RCTs will be medium density aerodromes that are economically important.

NOTE 1: Being a Local objective, to be applied at individual States or ATC Unit level, to achieve their performance targets the objective does not have a mandatory implementation deadline. As indicative guidance, the FOC of the OI Steps on which all the three SESAR Solutions (#12; #13, #52; #71) are based are 31/12/2024 for SDM-0201 and 15/11/2023 for SDM-0205.

NOTE 2: This objective is linked to SESAR Solutions #12, #13, #71, and #52.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

Applicability Area(s) & Timescale(s)

Applicability Area (Low to medium complexity aerodromes, subject to local needs) Timescales: From: By: Applicable to: IOC used for Analytics functioning only - not for implementation planning FOC used for Analytics functioning only - not for implementation planning O1/01/2030 Applicability Area O1/01/2030 Applicability Area

References

European	ATM Master	Plan					
OI step -	[SDM-0201]-Remotely Provided Air Traffic Service for Single Aerodrome						
	Enablers -	AERODROME AERODRO -ATC-52 -ATC-5	1 (116-80)	d REG-0509			
OI step -	[SDM-0204]-Remotely Provided Air Traffic Service for Contingency Situations at Small to Medium Aerodromes (with a Single Main Runway)						(with a Single Main
	Enablers -	AERODROME -ATC-51					
OI step -	[SDM-0205]-Remotely Provided Air Traffic Services for Two Low-density Aerodromes						
	Enablers -	AERODROME -ATC-54 CTE-S02	2d REG-052	5			
Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	C-002 Covered by SLoA(s) in another objective WXYZ- Objective covering the enabler		Not covered in the Implementation Plan	

Applicable legislation

-none-

AOP14.1 Remote Tower Services

Essential Operational Changes

Virtualisation of Service Provision

SESAR Solution

#12 - Single Remote Tower operations for medium traffic volumes, #13 - Remotely Provided Air Traffic Service for Contingency Situations at Aerodromes, #52 - Remote Tower for two low density aerodromes, #71 - ATC and AFIS service in a single low density aerodrome from a remote CWP

ICAO GANP - ASBUs

RATS-B1/1	emotely Operated Aerodrome Air Traffic Services

Deployment Programme

- none -

European Plan for Aviation Safety

Operating Environments

Airport

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
AOP14.1-REG01	Supervise compliance with regulatory provisions		
AOP14.1-ASP01	Develop, and deliver as necessary, a safety assessment of the changes imposed by the implementation of remote tower		
AOP14.1-ASP02	Define and implement system improvements allowing for the implementation of remote tower		
AOP14.1-ASP03	Develop and implement procedures for the use of Remote Tower		
AOP14.1-ASP04	Train all operational and technical personnel concerned		
AOP14.1-ASP05	Implement remotely provided air traffic service for contingency situations		
AOP14.1-APO01	Define and implement local airport procedures and processes for the implementation of remote tower concept		
AOP14.1-APO02	Train all operational and technical personnel concerned		

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

Safety:

Capacity:

Operational Efficiency:

Improve the uniformity of service provision at low to medium density and remote aerodromes and sustain or increase the availability of the service (for example allowing ATS to be provided at an aerodrome, which previously was unable

to financially support a service).

Cost Efficiency:

Cost reduction for ATS by optimisation of working time and conditions of ATCOs. Remote ATS facilities with several remote tower modules will be cheaper to maintain, and enable lower operating costs due to equipment economies of scale. The financial benefit may be further increased when operating in multiple mode, although in spring 2022 no multiple operations has been approved yet. It will also significantly reduce the requirement to maintain tower buildings and infrastructure. Cost benefits of RCT due to customer retention and reduced economic loss during contingency events.

Environment: Security: -

Detailed SLoA Descriptions

AOP14.1-REG01	Supervise compliance with regulatory provisions	From:	By: -
Action by:	Regulatory Authorities		

Implementation Plan Edition 2022

Description & purpose:	Supervise compliance with regulatory provisions for implementation of remote tower concept. The tasks to be done cover among others: - Ensure that all aerodromes where remote tower concept will be implemented are certified in accordance with applicable regulations. - Ensure the safety oversight of change related to the implementation of remote tower concept. - Ensure that all concerned operational and technical personnel received appropriate ratings/endorsements for their job functions in relation to the implementation of remote tower concept.					
Supporting material(s):	EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance Material on remote aerodrome air traffic services and repealing Decision 2015/014/R 02/2019					
	Url: https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2019004r					
	EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and services	` '	•			
ATM Marker Diam	Url: https://www.easa.europa.eu/document-library/notices-of-proposed	•	•	<u>'-b</u>		
ATM Master Plan elationship:	[REG-0509]-Regulatory Provisions for the harmonised deployment of Faerodrome) [REG-0525]-Regulatory provisions for the harmonised deployment of R			nes)		
Finalisation criteria:	The regulatory authorities have evidence of the status of compliance where remote tower concept is implemented.		•	100)		
10044410004	Develop, and deliver as necessary, a safety assessment of the	From:	Ву:			
AOP14.1-ASP01	changes imposed by the implementation of remote tower	-	-			
	ANS Providers Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment:	be done are as fo	ollows:			
Action by: Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2.	be done are as for ty objectives and s e or if the severity	ollows: safety requirements mitigat	ting		
Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicable	e or if the severity ethod. (OJ L 62, 8.03.201) g down common rement network func	ollows: safety requirements mitigate class of identified risks is a 17, p. 1) - COMMISSION equirements for providers options and their oversight,	ting 1 or of air		
Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2. This safety assessment shall be based on fully validated/recognised m EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU)	e or if the severity ethod. (OJ L 62, 8.03.201 g down common rement network func J) No 1034/2011, i	ollows: cafety requirements mitigate class of identified risks is a 17, p. 1) - COMMISSION equirements for providers of ctions and their oversight, (EU) No 1035/2011 and (E	ting 1 or of ai		
Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2. This safety assessment shall be based on fully validated/recognised m EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU 2016/1377 and amending Regulation (EU) No 677/2011 03/2017 Url : https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX: EUROCONTROL - Air Navigation Systems Safety Assessment Method	e or if the severity ethod. (OJ L 62, 8.03.201 g down common rement network func J) No 1034/2011, (032017R0373&from	bllows: safety requirements mitigate class of identified risks is a 17, p. 1) - COMMISSION equirements for providers of citions and their oversight, (EU) No 1035/2011 and (E	ting 1 or of ai		
Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2. This safety assessment shall be based on fully validated/recognised m EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU 2016/1377 and amending Regulation (EU) No 677/2011 03/2017 Url : https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX: EUROCONTROL - Air Navigation Systems Safety Assessment Method Url : https://www.eurocontrol.int/tool/safety-assessment-methodology	e or if the severity ethod. (OJ L 62, 8.03.201 g down common rement network func J) No 1034/2011, (32017R0373&from dology (SAM) - Ver	ollows: safety requirements mitigated relationship requirements mitigated relationship requirements for providers of the recurrence of the recurrence representation and their oversight, (EU) No 1035/2011 and (Em=EN) resion 2.1 / 11/2006	ting 1 or of ai		
Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicable 2. This safety assessment shall be based on fully validated/recognised meters as a second standard of the complex of t	be done are as for ty objectives and see or if the severity ethod. (OJ L 62, 8.03.201 g down common rement network fund. J) No 1034/2011, (32017R0373&from dology (SAM) - Verese Material on remo	ollows: safety requirements mitigated relative requirements mitigated relative requirements for providers of the requirements for providers of the requirements for providers of the result of the relative relati	ting 1 or of ai		
Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicable 2. This safety assessment shall be based on fully validated/recognised meters as a second se	e or if the severity ethod. (OJ L 62, 8.03.201 g down common re ment network func J) No 1034/2011, (32017R0373&fron dology (SAM) - Vel	ollows: safety requirements mitigate class of identified risks is a class of identified risks	1 or of ai		
Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2. This safety assessment shall be based on fully validated/recognised m EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU 2016/1377 and amending Regulation (EU) No 677/2011 03/2017 Url : https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX: EUROCONTROL - Air Navigation Systems Safety Assessment Method Url : https://www.eurocontrol.int/tool/safety-assessment-methodology EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019 Url : https://www.easa.europa.eu/document-library/agency-decisions/edEASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and services	e or if the severity ethod. (OJ L 62, 8.03.201 g down common rement network func J) No 1034/2011, (32017R0373&from dology (SAM) - Ven e Material on remo	bllows: safety requirements mitigate class of identified risks is a 17, p. 1) - COMMISSION equirements for providers of ctions and their oversight, (EU) No 1035/2011 and (E n=EN rsion 2.1 / 11/2006 ote aerodrome air traffic dur Remote aerodrome air tra	ting 1 or of air		
Description & purpose: Supporting material(s):	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2. This safety assessment shall be based on fully validated/recognised m EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU 2016/1377 and amending Regulation (EU) No 677/2011 03/2017 Url: https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX: EUROCONTROL - Air Navigation Systems Safety Assessment Method Url: https://www.eurocontrol.int/tool/safety-assessment-methodology EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019 Url: https://www.easa.europa.eu/document-library/agency-decisions/erEASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and services Url: https://www.easa.europa.eu/document-library/notices-of-proposed	be done are as for ty objectives and so the or if the severity ethod. (OJ L 62, 8.03.201 grown down common remove the function of the severity of the following the follo	bllows: safety requirements mitigate class of identified risks is a 17, p. 1) - COMMISSION equirements for providers octions and their oversight, (EU) No 1035/2011 and (E n=EN rsion 2.1 / 11/2006 be aerodrome air traffic der 0 Remote aerodrome air tra	ting 1 or of air		
Description & purpose:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2. This safety assessment shall be based on fully validated/recognised m EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU 2016/1377 and amending Regulation (EU) No 677/2011 03/2017 Url : https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX: EUROCONTROL - Air Navigation Systems Safety Assessment Method Url : https://www.eurocontrol.int/tool/safety-assessment-methodology EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019 Url : https://www.easa.europa.eu/document-library/agency-decisions/edEASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and services	be done are as for ty objectives and so the or if the severity ethod. (OJ L 62, 8.03.201 grown down common remove the function of the severity of the following the follo	bllows: safety requirements mitigate class of identified risks is a 17, p. 1) - COMMISSION equirements for providers octions and their oversight, (EU) No 1035/2011 and (E n=EN rsion 2.1 / 11/2006 be aerodrome air traffic der 0 Remote aerodrome air tra	ting 1 or of air		
Description & purpose: Supporting material(s): Finalisation criteria:	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2. This safety assessment shall be based on fully validated/recognised m EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU 2016/1377 and amending Regulation (EU) No 677/2011 03/2017 Url : https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX: EUROCONTROL - Air Navigation Systems Safety Assessment Method Url : https://www.eurocontrol.int/tool/safety-assessment-methodology EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019 Url : https://www.easa.europa.eu/document-library/agency-decisions/e	be done are as for ty objectives and so the or if the severity ethod. (OJ L 62, 8.03.201 grown down common remove the function of the severity of the following the follo	bllows: safety requirements mitigate class of identified risks is a 17, p. 1) - COMMISSION equirements for providers octions and their oversight, (EU) No 1035/2011 and (E n=EN rsion 2.1 / 11/2006 be aerodrome air traffic der 0 Remote aerodrome air tra	ting 1 or of ai EU)		
Description & purpose: Supporting material(s):	Develop safety assessment of the change to functional system impose (including Remote Contingency Tower, where applicable). The tasks to - Conduct hazard identification, risk assessment in order to define safe the risks; - Develop safety assessment; - Deliver safety assessment to the NSA, if new standards are applicabl 2. This safety assessment shall be based on fully validated/recognised m EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU 2016/1377 and amending Regulation (EU) No 677/2011 03/2017 Url : https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX: EUROCONTROL - Air Navigation Systems Safety Assessment Method Url : https://www.eurocontrol.int/tool/safety-assessment-methodology EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019 Url : https://www.easa.europa.eu/document-library/agency-decisions/ereASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and services Url : https://www.easa.europa.eu/document-library/notices-of-proposed 1 - The safety argument has been delivered to the NSA, for all changes	e or if the severity ethod. (OJ L 62, 8.03.201 g down common re ment network func J) No 1034/2011, (32017R0373&from dology (SAM) - Vel e Material on remo d-decision-201900 d NPA 2022-02 (B) l-amendment/npa- s generated by the	ollows: cafety requirements mitigated relative requirements mitigated relative requirements mitigated relative relative requirements for providers obtains and their oversight, (EU) No 1035/2011 and (Em=EN) resion 2.1 / 11/2006 of the aerodrome air trafficed relative relat	ting 1 or of air		

Remote Tower Services

AOP14.1

Description & purpose: When implementing a remote tower module, a number of system improvements should be implemented in order to display to ATCO/AFISO an "out of the window like" (OTW) image of the airport and its vicinity and to increase ATCO/AFISO situational awareness. In addition, all the tools and facilities available to a tower controller will also need to be remotely controlled, including, inter alia, ground-ground and ground-air communications, traffic light controls and aerodrome lighting controls. A mix of basic and advanced technical features should be considered including: Basic features: Visual (panorama) presentation (OTW); and * Binocular functionality camera(s). - Advanced features: * additional visual 'hot spot' cameras * the use of infrared or other optical sensors/cameras outside the visible spectrum * binocular functionality automatically following moving objects (commonly referred to as 'PTZ tracking') * dedicated means to facilitate the detection, identification and automatic following of aircraft or vehicles in the visual presentation (e.g. by labels based on surveillance data, complemented by flight plan correlation when available, commonly referred to as 'radar tracking'); * dedicated means to facilitate the detection and following of moving objects in the visual presentation (e.g. by highlighting/framing such objects based on image processing systems, commonly referred to as 'visual tracking'); other overlaid information in the visual presentation such as framing and/or designation of runways, taxiways, etc., compass directions, meteorological information, aeronautical information (NOTAM, SNOWTAM, etc.), other operational information (e.g. runway conditions like water, snow or mud presence, coefficient of friction, etc.); * ATS surveillance (air and/or ground radar presentation). EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance Material on remote aerodrome air traffic Supporting material(s): services and repealing Decision 2015/014/R 02/2019 Url: https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2019004r EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and NPA 2022-02 (B) Remote aerodrome air traffic services Url: https://www.easa.europa.eu/document-library/notices-of-proposed-amendment/npa-2022-02-and-npa-2022-02-b EUROCAE - ED-240A - Minimum Aviation System Performance Standards (MASPS) for Remote Tower Optical Systems 10/2018 Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-240a/# ATM Master Plan [AERODROME-ATC-52]-Provide Remote Tower Controller position with visual reproduction of both remoted aerodrome relationship: views and other sensor data. [AERODROME-ATC-53]-Remote Tower controller position enhanced with additional sources for low visibility conditions [AERODROME-ATC-54]-Provide a Remote CWP that enables one ATCO to control 2 remote towers (low-density) simultaneously [CTE-S02d]-Video Based Surveillance Finalisation criteria: 1 - The ANSP system has been upgraded according to the specifications for the remote tower concept. From: Ву: AOP14.1-ASP03 Develop and implement procedures for the use of Remote Tower Action by: **ANS Providers** Description & purpose: Ensure that all procedures and processes applicable for the remote tower concept are updated to the chosen operating scenario for remote tower aerodrome. These procedures should take into account if the concept is being implemented for a single or for multiple aerodromes, the traffic volumes as well as the acceptable number of simultaneous movements as derived from the safety assessment and approved by the NSA. EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance Material on remote aerodrome air traffic Supporting material(s): services and repealing Decision 2015/014/R 02/2019 Url: https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2019004r EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and NPA 2022-02 (B) Remote aerodrome air traffic services Url: https://www.easa.europa.eu/document-library/notices-of-proposed-amendment/npa-2022-02-and-npa-2022-02-b Finalisation criteria: 1 - The ATC/AFIS procedures have been updated to take on board the remote tower requirements. From: By: AOP14.1-ASP04 Train all operational and technical personnel concerned **ANS Providers** Action by: Description & purpose: Ensure that all operational and technical personnel concerned are adequately trained and hold appropriate ratings/endorsements for their job functions in relation to the approved implementation of remote tower (including for Remote Contingency Tower, where applicable). Supporting material(s): EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance Material on remote aerodrome air traffic services and repealing Decision 2015/014/R 02/2019 Url: https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2019004r EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and NPA 2022-02 (B) Remote aerodrome air traffic services Url: https://www.easa.europa.eu/document-library/notices-of-proposed-amendment/npa-2022-02-and-npa-2022-02-b Finalisation criteria: 1 - Training plans covering remote tower requirements have been developed and implemented.

Remote Tower Services

AOP14.1

AOP14.1	Remote Tower Services
AOP14.1	Remote Tower Services

1004441000	Implement remotely provided air traffic service for contingency	From:	Ву:				
AOP14.1-ASP05	situations	-	-				
Action by:	ANS Providers		'				
Description & purpose:	Implement the remote tower concept for contingency situations when the local tower is not available and services are to be provided from the contingency location. This specific solution should cover the following steps: - Definition and implementation of system improvements allowing for the implementation of remote tower for contingency situations, - Definition and implementation of procedures and processes in support of network and local dimension imposed by the implementation of remote tower for contingency situations, including regular training for operational and technical personnel concerned.						
Supporting material(s):	• •	SJU - SESAR Solution 13: Data Pack for Remotely provided air traffic service for contingency situations at aerodromes Url: https://www.sesarju.eu/sesar-solutions/remotely-provided-air-traffic-service-contingency-situations-aerodromes					
ATM Master Plan relationship:	[AERODROME-ATC-51]-Remote Tower Centre (RTC) position that in c longer be located at the local Tower.	ontingency situa	tion hosts ATCO that will no				
Finalisation criteria:	1 - Remote Contingency Tower (RCT) in place and available for operation	onal use.					
10044410004	Define and implement local airport procedures and processes for	From:	Ву:				
AOP14.1-APO01	the implementation of remote tower concept	-	-				
Action by:	Airport Operators		·				
Description & purpose:	Ensure that all procedures and processes applicable for the remote tower concept are updated to the chosen operating scenario for remote tower aerodrome and agreed with the ATSP.						
Supporting material(s):	EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance Material on remote aerodrome air traffic services and repealing Decision 2015/014/R 02/2019						
	Url: https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2019004r						
	EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and NPA 2022-02 (B) Remote aerodrome air traffic services						
	Url: https://www.easa.europa.eu/document-library/notices-of-proposed-amendment/npa-2022-02-and-npa-2022-02-b						
Finalisation criteria:	1 - The local airport procedures have been updated to take on board the	e remote tower s	ervice provision.				
AOD444 ADO02	Train all anarational and taskning have annul concerned	From:	Ву:				
AOP14.1-APO02	Train all operational and technical personnel concerned	-	-				
Action by:	Airport Operators		·				
Description & purpose:	Ensure that all operational and technical personnel concerned are adeq the implementation of remote tower.	uately trained for	r their job functions in relation to				
Supporting material(s):	EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance Material on remote aerodrome air traffic services and repealing Decision 2015/014/R 02/2019						
	Url: https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2019004r						
	EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and NPA 2022-02 (B) Remote aerodrome air traffic services						
	Url: https://www.easa.europa.eu/document-library/notices-of-proposed-amendment/npa-2022-02-and-npa-2022-02-b						
Finalisation criteria:	1 - Training plans covering remote tower requirements have been developed and all operational and technical personnel concerned has been trained.						