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AIP Supplement for Estonia

AIRAC
AIP Lisa / AIP SUP
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Pärnu lennuvälja ajutiste RNP (GNSS) lähenemisprotseduuride testimine**Testing of Pärnu Airport Temporary RNP (GNSS) Approach Procedures****1 Üldine**

See AIRAC AIP Lisa täiendab järgmist AIP-i osa: AD 2 EEPU.

See AIRAC AIP Lisa sisaldab ajutisi RNP (GNSS) lähenemisprotseduure, mida testitakse Pärnu lennuvälja rajale 03/21.

AIP Lisa võimalikud muudatused avaldatakse NOTAM-iga.

2 Periood

RNP testlende teostatakse ajavahemikus **2. detsember 2021 kuni 2. veebruar 2022 EST.**

3 RNP lähenemisprotseduuride testimine

Ajutised RNP (GNSS) lähenemisprotseduurid on eelnevalt testitud lennusiimulaatoris. Käesolevate testlendude eesmärk on veenduda, et lähenemisprotseduurid on kasutatavad ja ohutud lendamiseks.

Ajutiste RNP (GNSS) lähenemisprotseduuride testlende on lubatud teostada ainult volitatud ettevõtte protseduuride valideerimise eesmärgil.

Protseduurid on välja töötatud vastavalt kehtivatele ICAO juhendmaterjalidele, dokumendile PAN-OPS Doc 8168, Vol II toodud Basic GNSS ning baromeetrilise püstsuaunalise navigeerimise (BARO-VNAV) ja satelliidipõhise tugisüsteemi (SBAS) kriteeriumitele.

Täiendav info RNP protseduuridest, Basic GNSS vastuvõtjatest, baromeetrilise VNAV ja SBAS seadmetest leiab ICAO juhendmaterjalidest ja dokumendist PAN-OPS Doc 8168, Vol I.

RNP (GNSS) lähenemisprotseduuride jaoks vajalik RAIM ja EGNOS info avaldatakse NOTAM-iga.

Testlende teostavate õhusõidukite pilootidel on enne RNP (GNSS) lähenemisprotseduuri alustamist ja kogu protseduuri kasutamise vältel kohustus veenduda asjaolus, et õhusõiduki pardal on Pärnu lennuväljal hetkel kehtiv QNH.

Pärast testlendude edukat läbiviimist avaldatakse RNP (GNSS) lähenemisprotseduurid Eesti AIP-s vastavalt AIRAC tsüklile.

1 General

This AIRAC AIP SUP supplements the following portion of the AIP: AD 2 EEPU.

This AIRAC AIP SUP contains temporary RNP (GNSS) approach procedures to be tested on Pärnu Airport RWY 03/21.

Possible changes to AIP SUP shall be published by NOTAM.

2 Period

RNP test flights shall be conducted **02 DEC 2021 to 02 FEB 2022 EST.**

3 Testing of RNP Approach Procedures

Temporary RNP (GNSS) approach procedures have been previously tested in a flight simulator. The purpose of these test flights is to ensure that the approach procedures are usable and safe to fly.

Test flights for temporary RNP (GNSS) approach procedures shall only be conducted by an approved company for the purpose of validation of the procedures.

The procedures have been developed in accordance with current ICAO guidance material, Basic GNSS in PAN-OPS Doc 8168, Vol II, and Barometric Vertical Navigation (BARO-VNAV) and Satellite Support System (SBAS) criteria.

Further information on RNP procedures, Basic GNSS receivers, barometric VNAV and SBAS equipment can be found in the ICAO guidance material and in PAN-OPS Doc 8168, Vol I.

The RAIM and EGNOS information required for RNP (GNSS) approach procedures shall be published by NOTAM.

Pilots of aircraft performing test flights are obliged to make sure that the aircraft has a currently valid QNH at Pärnu Airport before starting the RNP (GNSS) approach procedure and during the use of the entire procedure.

After successful completion of the test flights, the RNP (GNSS) approach procedures will be published in the Estonian AIP according to the AIRAC cycle.

4 Lisad**4 Appendixes**

Kaardi nimetus Name of chart	Leht Page
Instrumentaallähenemiskaart - ICAO - EEPU RNP RWY 03 <i>Instrument Approach Chart - ICAO - EEPU RNP RWY 03</i>	Lisa 1 <i>Appendix 1</i>
EEPU RNP rada 03 - kodeerimine <i>EEPU RNP RWY 03 - Coding</i>	Lisa 2 <i>Appendix 2</i>
Löpplähenemise segmendi andmete plokk - EEPU RNP RWY 03 <i>Final Approach Segment Data Block - EEPU RNP RWY 03</i>	Lisa 3 <i>Appendix 3</i>
Instrumentaallähenemiskaart - ICAO - EEPU RNP RWY 21 <i>Instrument Approach Chart - ICAO - EEPU RNP RWY 21</i>	Lisa 4 <i>Appendix 4</i>
EEPU RNP rada 21 - kodeerimine <i>EEPU RNP RWY 21 - Coding</i>	Lisa 5 <i>Appendix 5</i>
Löpplähenemise segmendi andmete plokk - EEPU RNP RWY 21 <i>Final Approach Segment Data Block - EEPU RNP RWY 21</i>	Lisa 6 <i>Appendix 6</i>

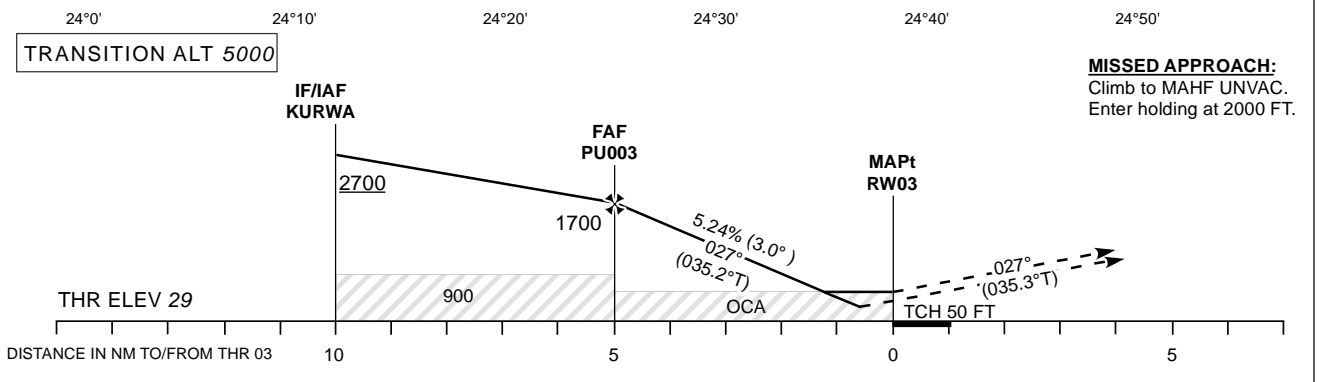
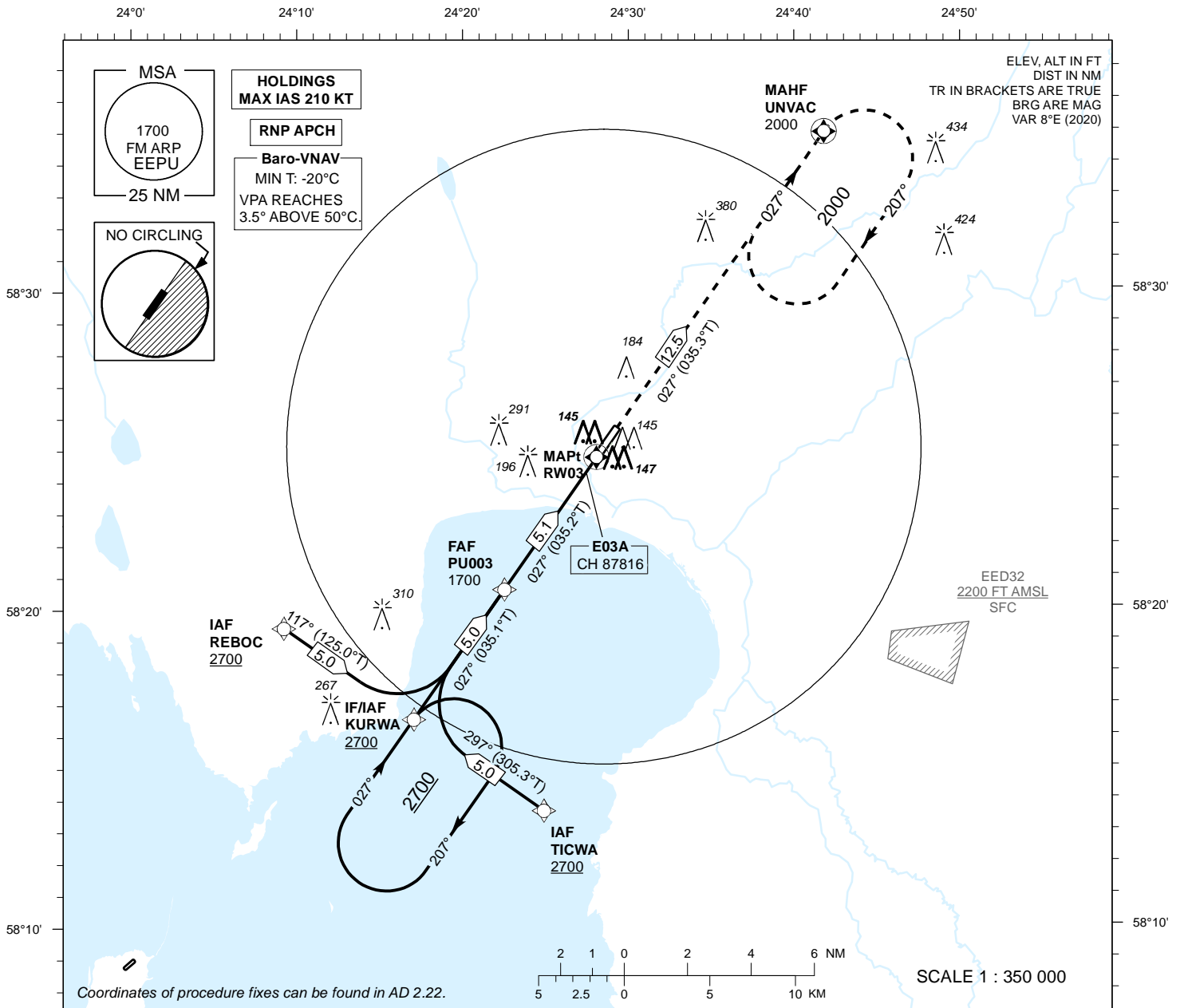
INSTRUMENT APPROACH CHART - ICAO

SBAS
CH 87816
E03A

AD ELEV 47 FT
HEIGHTS RELATED TO
THR RWY 03 ELEV 29 FT

INFORMATION 135.305

PÄRNU (EPU)
RNP RWY 03
(Cat A;B;C)



CHANGES: new chart.

				Timing not authorized for defining the MAPt						
				Final Approach DIST	5.0 NM	4.0 NM	3.0 NM	2.0 NM	1.0 NM ^(LPV) (LNAV/VNAV)	
OCA (H)	A	B	C	ALT	1670	1355	1035	715	395	
LPV	277 (248)	289 (260)	297 (268)	HGT	1640	1325	1005	685	370	
LNAV/VNAV	277 (248)	289 (260)	297 (268)	KT		90	100	120	140	160
LNAV	400 (370)			FAF-MAPt 5.1 NM	MIN:SEC	3:23	3:03	2:32	2:10	1:54
Circling W of AD only	480 (440)	540 (500)	690 (640)	Rate of descent	FT / MIN	470	525	630	735	840

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EPU RNP rada 03 - kodeerimine

EPU RNP RWY 03 - Coding

PROC ID	Navigation specification	P/T	WPT name	Type	Flyover	Course ° T	Course ° MAG	Distance NM	Turn direction	Altitude ft	MAX IAS kt
KURWA	RNP APCH	IF	KURWA	IAF	-	-	-	-	-	+2700	-
		TF	PU003	FAF	-	035.1	027	5.0	-	1700	-
		TF	RW03	MAPt	Y	035.2	027	5.1	-	-	-
		TF	UNVAC	MAHF	Y	035.3	027	12.5	-	2000	-
TICWA	RNP APCH	IF	TICWA	IAF	-	-	-	-	-	+2700	-
		TF	KURWA	IF	-	305.3	297	5.0	R	+2700	-
		TF	PU003	FAF	-	035.1	027	5.0	-	1700	-
		TF	RW03	MAPt	Y	035.2	027	5.1	-	-	-
		TF	UNVAC	MAHF	Y	035.3	027	12.5	-	2000	-
REBOC	RNP APCH	IF	REBOC	IAF	-	-	-	-	-	+2700	-
		TF	KURWA	IF	-	125.0	117	5.0	L	+2700	-
		TF	PU003	FAF	-	035.1	027	5.0	-	1700	-
		TF	RW03	MAPt	Y	035.2	027	5.1	-	-	-
		TF	UNVAC	MAHF	Y	035.3	027	12.5	-	2000	-

FINAL APPROACH PARAMETERS

LNAV GRADIENT	BARO-VNAV		TCH
	VPA	MNM T°	
5.24% (3.0°)	3.00°	-20°C	50 ft

WPT name	Coordinates
PU003	582039.91N 0242221.74E
UNVAC	583459.30N 0244145.09E
KURWA	581635.21N 0241654.09E
TICWA	581342.67N 0242438.00E
REBOC	581927.15N 0240908.76E
RW03	582448.66N 0242756.45E

ID	INDB TR °T	INBD °MAG	Turn direction	MAX IAS (kt)	MNM HLDG LVL (ft)	Time (MIN)	Distance (NM)
UNVAC	035.2	027	Right	210	2000	1	-
KURWA	035.2	027	Right	210	+2700	1	-

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Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	EEPU
Runway	03
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E03A
LTP/FTP Latitude	582448.6635N
LTP/FTP Longitude	0242756.4495E
LTP/FTP Ellipsoidal Height (metres)	28.9
FPAP Latitude	582540.6305N
Delta FPAP Latitude (seconds)	51.9670
FPAP Longitude	0242906.5790E
Delta FPAP Longitude (seconds)	70.1295
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 15 10 05 05 03 00 00 01 33 30 05 2F 80 11 19 43 E1 7F 0A 21 15 FE 95 01 E3 23 02 F4 01 2C 01 64 00 C8 AF F0 71 C5 D0
Calculated CRC Value	F071C5D0

Required Additional Data

ICAO Code	EE
LTP/FTP Orthometric Height (metres)	9.0

EUROCONTROL FAS DB tool Version 3.2.0

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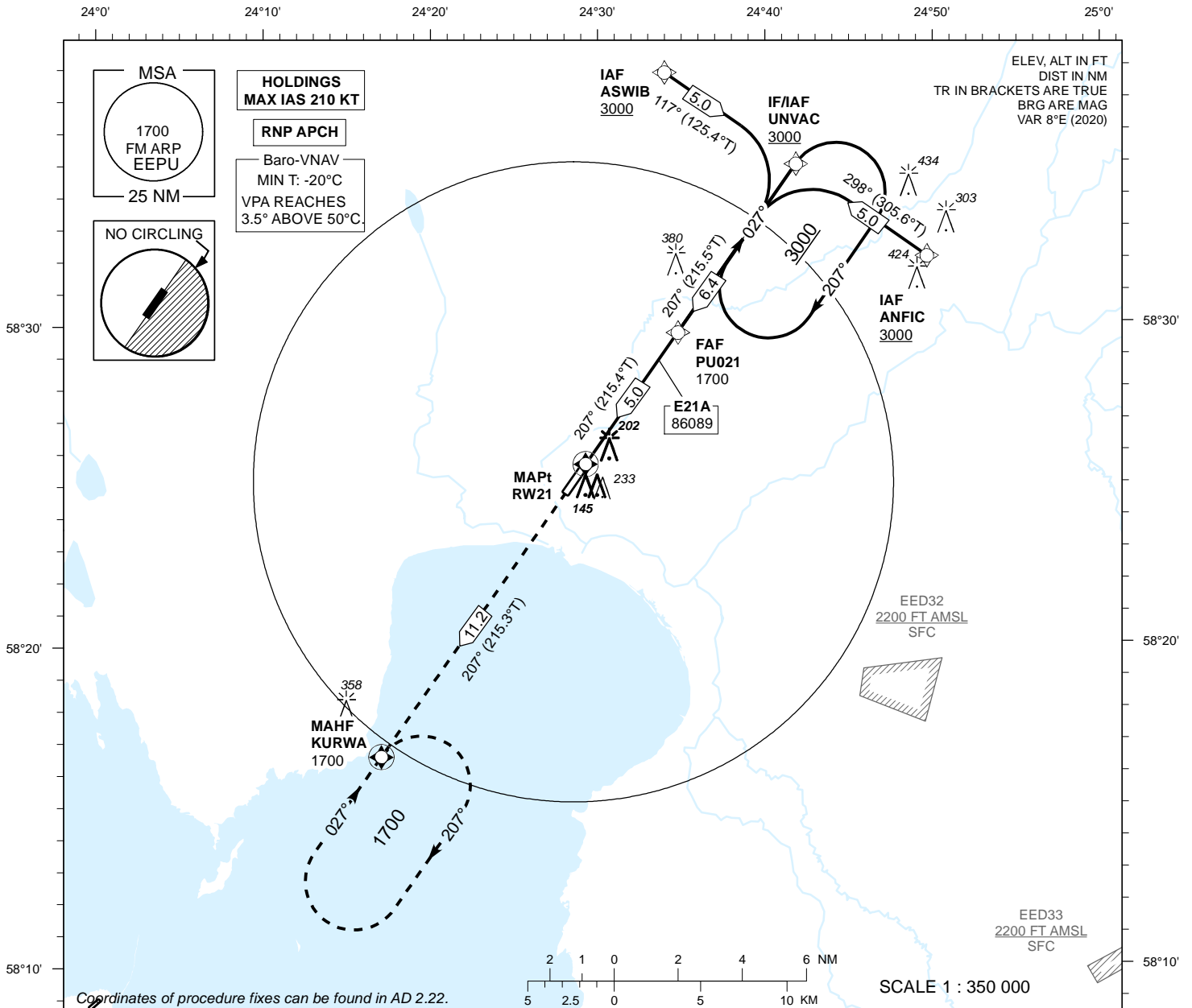
INSTRUMENT APPROACH CHART - ICAO

SBAS
CH 86089
E21A

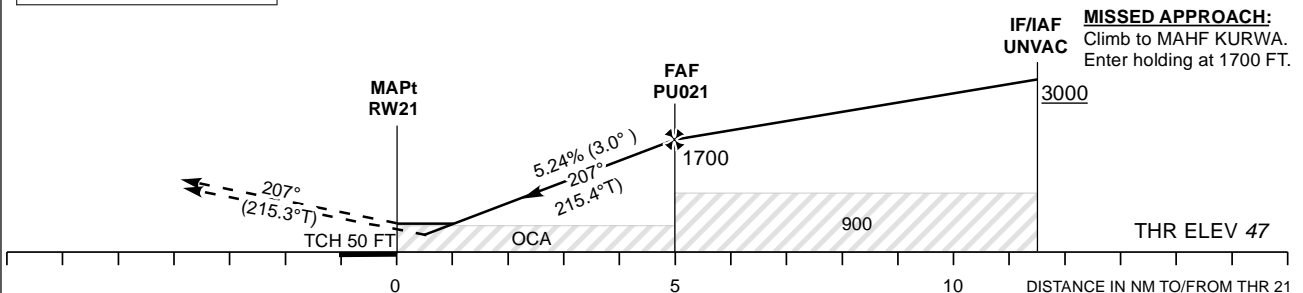
AD ELEV 47 FT
HEIGHTS RELATED TO
THR RWY 21 ELEV 47 FT

INFORMATION 135.305

PÄRNU (EPU)
RNP RWY 21
(Cat A;B;C)



TRANSITION ALT 5000



Timing not authorized for defining the MAPt

OCA (H)	Final Approach DIST			Timing not authorized for defining the MAPt						
	A	B	C	5.0 NM	4.0 NM	3.0 NM	2.0 NM	1.0 NM ^(LPV) (LNAV/VNAV)		
LPV	274 (227)	287 (240)	295 (248)	ALT	1690	1370	1050	735	415	
LNAV/VNAV	328 (281)	340 (293)	348 (301)	HGT	1640	1325	1005	685	370	
LNAV	440 (400)			KT	90	100	120	140	160	
Circling W of AD only	480 (440)	540 (500)	690 (640)	FAF-MAPt 5.0 NM	MIN:SEC	3:21	3:01	2:30	2:09	1:53
				Rate of descent	FT / MIN	470	525	630	735	840

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EPU RNP rada 21 - kodeerimine

EPU RNP RWY 21 - Coding

PROC ID	Navigation specification	P/T	WPT name	Type	Flyover	Course ° T	Course ° MAG	Distance NM	Turn direction	Altitude ft	MAX IAS kt
UNVAC	RNP APCH	IF	UNVAC	IAF	-	-	-	-	-	+3000	-
		TF	PU021	FAF	-	215.5	207	6.4	-	1700	-
		TF	RW21	MAPt	Y	215.4	207	5.0	-	-	-
		TF	KURWA	MAHF	Y	215.3	207	11.2	-	1700	-
ANFIC	RNP APCH	IF	ANFIC	IAF	-	-	-	-	-	+3000	-
		TF	UNVAC	IF	-	305.6	298	5.0	L	+3000	-
		TF	PU021	FAF	-	215.5	207	6.4	-	1700	-
		TF	RW21	MAPt	Y	215.4	207	5.0	-	-	-
		TF	KURWA	MAHF	Y	215.3	207	11.2	-	1700	-
ASWIB	RNP APCH	IF	ASWIB	IAF	-	-	-	-	-	+3000	-
		TF	UNVAC	IF	-	125.4	117	5.0	R	+3000	-
		TF	PU021	FAF	-	215.5	207	6.4	-	1700	-
		TF	RW21	MAPt	Y	215.4	207	5.0	-	-	-
		TF	KURWA	MAHF	Y	215.3	207	11.2	-	1700	-

FINAL APPROACH PARAMETERS			
LNAV GRADIENT	BARO-VNAV		TCH
	VPA	MNM T°	
5.24% (3.0°)	3.00°	-20°C	50 ft

WPT name	Coordinates
UNVAC	583459.30N 0244145.09E
KURWA	581635.21N 0241654.09E
ANFIC	583205.34N 0244931.09E
ASWIB	583752.80N 0243357.80E
PU021	582946.33N 0243439.15E
RW21	582540.63N 0242906.58E

ID	INDB TR °T	INBD °MAG	Turn direction	MAX IAS (kt)	MNM HLDG LVL (ft)	Time (MIN)	Distance (NM)
UNVAC	035.2	027	Right	210	+3000	1	-
KURWA	035.2	027	Right	210	1700	1	-

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Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	EEPU
Runway	21
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E21A
LTP/FTP Latitude	582540.6305N
LTP/FTP Longitude	0242906.5790E
LTP/FTP Ellipsoidal Height (metres)	34.3
FPAP Latitude	582448.6635N
Delta FPAP Latitude (seconds)	-51.9670
FPAP Longitude	0242756.4495E
Delta FPAP Longitude (seconds)	-70.1295
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 15 10 05 05 15 00 00 01 31 32 05 2D 16 13 19 26 05 82 0A 57 15 02 6A FE 1D DC FD F4 01 2C 01 64 00 C8 AF FD 08 23 5A
Calculated CRC Value	FD08235A

Required Additional Data

ICAO Code	EE
LTP/FTP Orthometric Height (metres)	14.5

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