

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> KMMI	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 2	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>CITY</u> ATHENS	<u>STATE</u> TN		
<u>AIRPORT ELEVATION</u> 874	<u>TDZE</u> 846	<u>SUPERSEDED</u> RNAV (GPS) RWY 2	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 10/06/2022	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
KIRCH		PIBGE		TF	FB	1.00	168.80	15.99	4100
MARBL		SOBNE		TF	FB	1.00	265.67	20.37	5600
PIBGE	IAF	ZAGUG	NOPT	TF	FB	1.00	111.60	5.00	4100
SOBNE	IAF	ZAGUG	NOPT	TF	FB	1.00	319.70	5.00	4100
ZAGUG	IF/IAF	COTKI		TF	FB	1.00	021.65	2.10	3700
COTKI		HETAK		TF	FB	1.00	021.67	4.00	3500
HETAK	FAF	RW02	MAP	TF	FO	0.30	021.68	8.13	
RW02	MAP	1274 MSL		CA			021.68		
1274 MSL		HUVEP		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LNAV: RW02

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3100 DIRECT HUVEP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD S ZAGUG, LT, 021.65 INBOUND, 4100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC:

021.68

FAF: HETAK

DIST FAF TO MAP: 8.13

DIST FAF TO THLD: 8.13

4. MIN ALT: ZAGUG 4100, COTKI 3700, HETAK 3500

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH:

8. MSA FROM: RW02 6800

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: STRAIGHT-IN RWY 2 NA AT NIGHT, CIRCLING RWY 2 NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MC GHEE TYSON ALTIMETER SETTING AND INCREASE ALL MDAS 120 FEET, AND LNAV VISIBILITY CATS C AND D 1/2 SM, AND CIRCLING VISIBILITY CAT A 1/4 SM AND CAT C 1/2 SM.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT KIRCH ON V311 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MARBL ON V97 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 201.75 INBOUND.
FAS OBST: 1239 AAO 351614N/0843539W.
HETAK TO RW02: 3.00/40.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	1600	1	754	1600	1 1/4	754	1600	2	754	1600	2	754			
CIRCLING	1600	1	726	1600	1 1/4	726	1600	2	726	1820	3	946			



CHANGES - REASONS

1. INCORPORATED P-NOTAMS 1/1864 FOR AMDT ORIG-C AND 2/3859 FOR AMDT ORIG-D.
2. DELETED FEEDER PEEKS TO PIBGE IN TERMINAL ROUTES AND ASSOCIATED PLANVIEW NOTE AT PEEKS -- FPT REQUEST DUE TO V51 CANCELLATION.
3. ADDED "MAX 6000" TO PROFILE LINE 2 -- UPDATED IAW 8260.19I, 8-6-7.B(2).
4. CHANGED SECONDARY ALTIMETER NOTE (P-NOTAM 2/3859) FROM "...LNAV VISIBILITY CAT C/D 1/2 SM, AND CIRCLING VISIBILITY CAT A 1/4 SM, CAT C 1/2 SM" TO "...LNAV VISIBILITY CATS C AND D, AND CIRCLING VISIBILITY CATS A AND C 1/2 SM" -- UPDATED IAW 8260.19I, 8-6-11.N(1)(A)2.
5. CHANGED PROCEDURE NA FOR ARRIVALS CHART PLANVIEW NOTE FROM "...MARBL ON V51 SOUTHEAST BOUND" TO "...MARBL ON V97 NORTHBOUND" -- V51 CANCELED AND GREATER THAN 90 DEGREE TURN TO SOBNE FROM V97 NORTHBOUND; UPDATED IAW 8260.58B, 1-2-5.A(3).
6. CHANGED ALTERNATE MINIMUMS FROM "NA" TO "STANDARD - CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE" -- SECONDARY ALTIMETER KTYS; UPDATED IAW 8260.19I, 8-6-11.B(4) MEMO.

05/2/23: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/10/23.

1. CHANGED SECONDARY ALTIMETER NOTE FROM "...LNAV VISIBILITY CATS C AND D, AND CIRCLING VISIBILITY CATS A AND C 1/2 SM" TO "...LNAV VISIBILITY CATS C AND D 1/2 SM, AND CIRCLING VISIBILITY CAT A 1/4 SM AND CAT C 1/2 SM" -- 1/2 SM INCREASE TO CIRCLING CAT A RESULTS IN A GREATER VISIBILITY REQUIREMENT THAN CIRCLING CAT B.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZTL, TYS APP CON, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE**DATE**

Digitally signed by
JASON KRETSCHMER
May 03, 2023

DEVELOPED BY

JASON KRETSCHMER (DANIEL C JOHNSEN)

Digitally signed by

JASON KRETSCHMER

May 03, 2023

OFFICE

AJV-A421

DATE

12/28/2022

APPROVED BY

JASON KRETSCHMER

Digitally signed by

JASON KRETSCHMER

May 03, 2023

OFFICE

AJV-A421

DATE

TITLE
MANAGER

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KMMI	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 2	<u>AMDT NO.</u> ORIG-E	<u>CITY</u> ATHENS	<u>STATE</u> TN	<u>AIRPORT ELEVATION</u> 874	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
KIRCH

TO
PIBGE

<u>RNP</u>	<u>DISTANCE</u> 15.99	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	352751.50N/0844717.30W		1400	1000	3	6A	2000				AT700	4100
TERRAIN	352654.00N/0844821.00W		1126 (1100)								AS1500	2600

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM
MARBL

TO
SOBNE

<u>RNP</u>	<u>DISTANCE</u> 20.37	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	350532.40N/0842512.00W		3522	1000	3	6A	2000					5600
TERRAIN	350532.40N/0842512.00W		3322 (3300)								AS1500	4800

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FACILITY
RNAV

HMAS

RF CENTER FIX/DISTANCEHMASRF CENTER FIX/DISTANCE

QUALITY
34
CHECKED

INTERMEDIATE

FROM
ZAGUG (IF/IAF)

TO
COTKI

RNP	DISTANCE 2.10	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	350833.00N/0843654.00W		2451	164	98	4E	500				AC98	3100
TERRAIN	350921.00N/0843639.00W		2195 (2200)								AS1500	3700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM
COTKI

TO
HETAK

RNP	DISTANCE 4.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (47-000620)	351135.00N/0843333.00W		3283	100	20	3C	500				SA-380 DG97	3500
TERRAIN	351103.00N/0843445.00W		1365 (1400)								AS1500	2900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

3283 MSL TOWER LOCATED 4560 INTO SECONDARY AREA.



FINAL: LNAV

FROM
HETAK

TO
RW02

RNP	DISTANCE 8.13	PAT	MAP RW02	HAT 754			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	351613.56N/0843538.64W		1239	50	20	2C	250				XL107	1600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM
ZAGUG

TO
P-6

RNP	DISTANCE	PAT P-6	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	350713.20N/0843706.10W		2818	1000	3	6A	1000					3900
TERRAIN	350713.20N/0843706.10W		2618 (2600)								AS1500	4100

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM
RW02

TO
HUVEP

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1243					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
AAO	353127.15N/0842648.00W		1769	50	20	2C	1000					2800
TERRAIN	353127.15N/0842648.00W		1569 (1600)								AS1500	3100

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS ☒ CAT A ☒ CAT B ☒ CAT C ☒ CAT D ☐ CAT E ☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE (47-027834)	352417.87N/0843503.73W	1.30	726	1225	50	20	2C	300		SI	1600
CATEGORY B											
TREE (47-027280)	352606.47N/0843336.25W	1.84	726	1269	50	20	2C	300		SI	1600
CATEGORY C											
TOWER (47-001631)	352615.23N/0843459.04W	2.89	726	1300	50	20	2C	300			1600
CATEGORY D											
AAO	352752.80N/0843140.69W	3.77	946	1520	50	20	2C	300			1820

CIRCLING REMARKS:



MSA

CENTER
RW02

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	351905.60N/0835922.30W	102	28.6	5780	1000	3	6A	1000			6800

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION HEIGHT: 100 FEET.

TAA NOT DEVELOPED PER FPT.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
TYS APP CON, BNA FSS

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KMMI	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KMMI	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KTYS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KTYS	<u>DISTANCE</u> 37.14	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 101

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KMMI 874, KTYS 971
RA = 100.3.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW02 - MIRL, REIL, PAPI-2L (PCL), TAXI WAY		NPI-G	
RW20 - MIRL, REIL, TAXI WAY, PAPI-2L (PCL)		NPI-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 40.5
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	949
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:



AIRPORT ID KMMI	PROCEDURE NAME RNAV (GPS) RWY 2	AMDT NO. ORIG-E	CITY ATHENS	STATE TN	AIRPORT ELEVATION 874	FACILITY RNAV
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"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LNAV
20:1	
881 TREE (47-026933) 352330.50N/0843356.54W (47.39)	880 TREE (47-026934) 352329.55N/0843356.88W (41.39)
881 TREE (47-026935) 352328.62N/0843357.79W (36.73)	863 TREE (47-026932) 352331.32N/0843355.89W (34.18)
868 TREE (47-026466) 352327.45N/0843358.64W (17)	861 TREE (47-026468) 352327.63N/0843357.72W (12.08)
857 TREE (47-026936) 352328.28N/0843357.21W (11.87)	814 BUILDING (47-026985) 352334.21N/0843354.35W (1.07)
Final Type	LNAV
34:1	
854 TREE (47-026467) 352326.64N/0843358.12W (17.47)	851 TREE (47-027858) 352326.12N/0843358.96W (12.35)
850 TREE (47-026469) 352326.48N/0843359.27W (12.12)	846 TREE (47-027859) 352325.36N/0843358.32W (5.71)

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT ID KMMI	PROCEDURE NAME RNAV (GPS) RWY 2	AMDT NO. ORIG-E	CITY ATHENS	STATE TN	AIRPORT ELEVATION 874	FACILITY RNAV
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.88
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	018.68
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1000
DISTANCE FROM	THLD	TO 1500FT POINT	6.13
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	018.68
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1000

THRESHOLD
COORDINATES
(IF STR-IN)

352335.78N/0843351.25W

ARP COORDINATES

352357.10N/0843342.40W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 2 DISTANCE 0.53 NM

FAF
COORDINATES

351552.81N/0843702.41W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.
THLD DISPLACED 949FT, ACTUAL COORDINATES: 352326.88N/0843354.93W.

QUALITY
34
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> JASON KRETSCHMER (DANIEL C JOHNSEN)	<u>OFFICE</u> AJV-A421	<u>DATE</u> 12/28/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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