

**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</u> MASSENA INTL-RICHARDS FIELD	<u>AIRPORT ID</u> KMSS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> 2B	<u>CITY</u> MASSENA	<u>STATE</u> NY	
<u>AIRPORT ELEVATION</u> 221	<u>TDZE</u> 205	<u>SUPERSEDED</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 02/05/2015	<u>MAG VAR</u> 14W	<u>EPOCH YEAR</u> 1980
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 JANUARY 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TAA**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>ALTITUDE</b></u>
1. 315/30 CW 135/30	NOPT	315/5 CW 135/5		4800
2. 315/5 CW 135/5		DORIE	IF/IAF	2800
3. 135/30 CW 225/30		APKAF	IAF	2800
4. 225/30 CW 315/30		225/6 CW 315/6		5600
5. 225/6 CW 315/6		SETBE	IAF	3400

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
APKAF	IAF	DORIE	NOPT	TF	FB	1.00	135.05	5.00	2800
SETBE	IAF	DORIE	NOPT	TF	FB	1.00	315.19	5.00	2800
DORIE	IF/IAF	KOGEY		TF	FB	1.00	045.12	6.10	2100
KOGEY	FAF	RW05	MAP	TF	FO	0.30	045.17	5.68	
RW05	MAP	455 MSL		CA			045.17		
455 MSL		HODSA		DF	FB	1.00			
HODSA		HINED		TF	FO	1.00	134.82	11.63	3000



MISSED APPROACH

MAP:  
LPV: DA  
LNAV/VNAV: DA  
LNAV: RW05

MISSED APPROACH INSTRUCTIONS:  
CLIMB TO 3000 DIRECT HODSA AND ON TRACK 134.82 TO HINED AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)				
2.	HOLD SW DORIE, LT, 045.12 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.							
3. FAC:	045.17	FAF: KOGEY	DIST FAF TO MAP: 5.68	DIST FAF TO THLD: 5.68				
4. MIN ALT:	DORIE 2800, KOGEY 2100							
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.62	GS ANT:			
6. MIN GP INCPT: 2100	GP ALT AT FAF : KOGEY 2100			OM:	MM:	IM:		
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 54.2					
8. MSA FROM:								

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 9, 23, 27 NA AT NIGHT.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART TUPPER MOA  
CHART ADIRONDACK MOA  
CHART CRANBERRY MOA  
CHART VDP AT 1.88 NM TO RW05\*  
\*LNAV ONLY  
WAAS CHANNEL #70303  
REFERENCE PATH ID: W05A  
CHART FAS OBST: 570 TWR 445411N/0745301W.  
HOLD NE, RT, 246.97 INBOUND  
LTP HAE: 31.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4



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
LPV DA	455	3/4	250	455	3/4	250	455	3/4	250	455	3/4	250			
LNAV/VNAV DA	968	2 3/4	763	968	2 3/4	763	968	2 3/4	763	968	2 3/4	763			
LNAV MDA	860	1	655	860	1	655	860	1 7/8	655	860	2	655			
CIRCLING	860	1	639	860	1	639	860	1 7/8	639	900	2 1/4	679			

**CHANGES - REASONS**

1. PREVIOUSLY CHARTED CHANGES FROM P-NOTAM 4/4310 INCORPORATED ON THIS FORM: "NIGHT LANDING: RWY 9 NA AT NIGHT", "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED", "DELETE NOTE CIRCLING TO RWY 9-27 NA AT NIGHT", "DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 23 NA AT NIGHT", AND "DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA".
2. MOVED ALL CONTINGENCY ALTIMETER NOTES TO BACK OF FORM 8260-9 - KMSS ALTIMETER SETTING IS ON WMSCR, NOTE NO LONGER REQUIRED.
3. INCORPORATED P-NOTAM 4/4310 AND T-NOTAM 8/7580 CHANGED CHART NOTE FROM "NIGHT LANDING: RWY 9 NA" TO "CIRCLING RWY 9, 23, 27 NA AT NIGHT" - RWY 9 HAS 20:1 VISUAL SURFACE PENETRATIONS; RWY 23 HAS NO OIS SURVEY, 20:1 PENETRATIONS ARE ASSUMED; FLIGHT CHECK N71 REPORTED VISUAL SEGMENT OBSTACLES EXIST FOR RWYS 9, 23, 27.
4. REMOVED INCORPORATED P-NOTAM 4/4310 CHART NOTE: "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - NO 20:1 OR 34:1 VISUAL SURFACE PENETRATIONS EXIST TO RWY 5 CATS A/B VISUAL AREAS.
5. FAS DATA BLOCK INFORMATION LTP/FTP LATITUDE CHANGED FROM 445548.1020N TO 445548.1040N - CURRENT VALUE.
6. FAS DATA BLOCK INFORMATION LTP/FTP LONGITUDE CHANGED FROM 0745057.8270W TO 0745057.8265W - CURRENT VALUE.
7. FAS DATA BLOCK INFORMATION UPDATED: CRC REMAINDER CHANGED FROM 55A9369C TO 14C4361E; COURSE WITH AT THRESHOLD FROM 106.25 TO 106.75; AND LENGTH OFFSET FROM 0016 TO 1040 - CODING CHANGED DUE TO LTP/FTP LATITUDE/LONGITUDE CHANGES.
8. INCREASED LNAV AND CIRCLING CAT C VISIBILITIES FROM 1 3/4 SM TO 1 7/8 SM - PER FAAO 8260.3C VISIBILITY TABLES.
9. INCREASED RNP VALUE FROM 0.50 TO 1.00 IN TERMINAL ROUTES INTERMEDIATE SEGMENT - IAW FAAO 8260.58A, TABLE 1-2-1.
10. REMOVED RNP VALUE 1.00 IN TERMINAL ROUTES CA LEG - IAW FAAO 8260.58A, TABLE 1-2-1, NOTE 1.
11. ADDED EQUIPMENT REQUIREMENTS NOTE: RNP APCH - PER FAAO 8260.58A, TABLE 1-2-1.
12. REMOVED DME/DME RNP-0.3 NA NOTED - NO LONGER REQUIRED.
13. UPDATED CHART FAS OBST FROM 596 FT TO 570 FT - CORRECTED DOCUMENTATION ERROR, NO CHANGE TO MINIMUMS, COORDINATES REMAIN 445411N/0745301W.
14. UPDATED BARO-VNAV NOTE TO REMOVE FAHRENHEIT TEMPERATURES AND INCREASED HIGH TEMPERATURE FROM 45C TO 54C - PER FAAO 8260.19H, PARA 8-8.C.(10) AND 8260.58A CALCULATORS.
15. INCREASED CIRCLING HAAS: CATS A-C FROM 638 TO 639 AND CAT D FROM 678 TO 679 - AIRPORT ELEVATION CHANGED FROM 222 TO 221, CURRENT AIRNAV DATA BASE.
16. UPDATED ALTERNATE MINIMUMS, REMOVED "NA WHEN LOCAL WEATHER NOT AVAILABLE" AND ADDED "STANDARD - CAT D 800-2 1/4" - CONTINGENCY ALTIMETER CHANGED FROM KSLK TO KPTD.

PDF EDITS: 8/13/2018

1. CRITICAL TEMPERATURE REMARKS CHANGED FROM "AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD 14C DEVIATION" TO "AVERAGE COLD TEMPERATURE IS DERIVED FROM STANDARD -30C ISA DEVIATION" - KNOWN SIAP AUTO-PULL ERROR.
2. REMOVED THE NEW CIRCLING CRITERIA NOTE FROM PART C: GENERAL REMARKS - KNOWN SIAP ERROR.



AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
MASSENA INTL-RICHARDS FIELD	KMSS	RNAV (GPS) RWY 5	2B	MASSENA	NY
<b>COORDINATED WITH:</b>					
A4A <input type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> OTHER: ZBW, EASTERN FPT, AMGR.					
<b>FLIGHT CHECKED BY</b>		<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>	
DURLEY J FELDER		<b>ROBERT G HAMILTON</b>	FICO	10/26/18	
		Oct 30, 2018			
<b>DEVELOPED BY</b>		<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>	
WILLIAM HANBY		<b>WILLIAM HANBY</b>	AJV-5422	06/07/2018	
		Aug 13, 2018			
<b>APPROVED BY</b>		<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>	<b>TITLE</b>
JULIE MORGAN		<b>ROBERT G HAMILTON</b>	AJV-5420		MANAGER
		Oct 30, 2018			



**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMSS
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	445548.1040N
LTP/FTP LONGITUDE	0745057.8265W
LTP/FTP ELLIPSOIDAL HEIGHT	+00312
FPAP LATITUDE	445635.8200N
FPAP LONGITUDE	0745017.1000W
THRESHOLD CROSSING HEIGHT (TCH)	00054.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1040
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	14C4361E

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00062
FPAP ORTHOMETRIC HEIGHT	+00062

