

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> SARATOGA COUNTY	<u>AIRPORT ID</u> K5B2	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> SARATOGA SPRINGS	<u>STATE</u> NY	
<u>AIRPORT ELEVATION</u> 434	<u>TDZE</u> 431	<u>SUPERSEDED</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 10/16/2014	<u>MAG VAR</u> 14W	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 JULY 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 143/30 CW 323/30		143/6 CW 323/6		5300
1. 143/6 CW 323/6	NOPT	TAYVO	IF/IAF	3000
2. 323/30 CW 053/30		323/9 CW 053/9		4600
2. 323/9 CW 053/9		VACPU	IAF	3000
3. 053/30 CW 143/30		053/10 CW 143/10		4800
3. 053/10 CW 143/10		BOJAX	IAF	4100

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>
VACPU	IAF	TAYVO	NOPT	TF	FB	1.00	322.73	8.00	3000
BOJAX	IAF	TAYVO	NOPT	TF	FB	1.00	142.54	8.00	4100
TAYVO	IF/IAF	LOXFO		TF	FB	1.00	232.63	6.02	2300
LOXFO	FAF	WEVOP/2.10 NM TO RW23		TF	FB	0.30	232.58	3.61	
WEVOP/2.10 NM TO RW23		RW23	MAP	TF	FO	0.30	232.58	2.10	
RW23	MAP	698 MSL		CA			232.58		
698 MSL		WALTU		DF	FO	1.00			3000

QUALITY
20
CHECKED

MISSED APPROACH

MAP:
LPV: DA
LNAV/VNAV: DA
LNAV: RW23

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT WALTU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)				
2.	HOLD NE TAYVO, RT, 232.63 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.							
3. FAC:	232.58	FAF: LOXFO	DIST FAF TO MAP: 5.71	DIST FAF TO THLD: 5.71				
4. MIN ALT:	TAYVO 3000, LOXFO 2300, WEVOP/2.10 NM TO RW23 1140*							
5. DIST TO THLD FROM OM:		MM:	IM:	150 HAT:	267 HAT: 0.68			
6. MIN GP INCPT:	2300	GP ALT AT FAF :	LOXFO 2300	OM:		MM:		IM:
7. GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	55.0	
8. MSA FROM:								

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING ALBANY ALTIMETER SETTING.
CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (F) OR ABOVE 54C (F).
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBANY ALTIMETER SETTING AND INCREASE ALL DAS 63FT AND MDAS 80 FT. INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/8 SM, LNAV CATS C/D VISIBILITY 3/8 SM, AND CIRCLING CAT C VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.03 NM TO RW23*
*LNAV ONLY
WAAS CHANNEL #56611
REFERENCE PATH ID: W23A
CHART FAS OBST: 541 TREE 430330N/0735205W.
890 AAO 430800N/0734703W.
HOLD SW, RT, 052.40 INBOUND
LTP HAE: 99.5 M

MINIMUMS:

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

ALTERNATE: NA ☒



AIRPORT SARATOGA COUNTY			AIRPORT ID K5B2			PROCEDURE NAME RNAV (GPS) RWY 23			ORIGINAL/AMENDMENT 2			CITY SARATOGA SPRINGS			STATE NY	
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	698	7/8	267	698	7/8	267	698	7/8	267	698	7/8	267				
LNAV/VNAV DA	706	7/8	275	706	7/8	275	706	7/8	275	706	7/8	275				
LNAV MDA	800	1	369	800	1	369	800	1	369	800	1	369				
CIRCLING	980	1	546	1080	1	646	1140	2	706	1340	3	906				

CHANGES - REASONS

1. INCORPORATED P-NOTAM AMDTS 1A (DELETE NOTE CIRCLING TO RWY 5/23 NA AT NIGHT) AND 1B (ADD NOTE HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED; CHANGED 'NIGHT LANDING: RWY 5, 14, 32 NA' TO 'CIRCLING NA AT NIGHT' IAW 8260.19H DOCUMENTATION CRITERIA) - RWY 23 20:1 CLEAR, 34:1 NOT CLEAR; RWYS 5, 14, 32 20:1 PENS.
2. DELETED CAM VOR/DME AND GFL VORTAC FEEDERS (AND ASSOCIATED PLANVIEW NOTES) AND ADDED TAA - ATC REQUEST, GFL VOR MON
3. ADDED BOJAX IAF AND CHANGED DISTANCE VACPU TO TAYVO FROM 5.00 TO 8.00 - TO ACCOMMODATE TAA ADDITION (ATC APPROVED)
4. CHANGED DISTANCE TAYVO TO LOXFO FROM 6.12 TO 6.02 - NEW LPV PFAF CALCULATION CRITERIA, 55FT TCH
5. WEVOP SDF ALT RAISED 20 FT - TERRAIN STUDY REVEALED NEW AAO IN FAF-SDF SEGMENT
6. CHANGED DISTANCE WEVOP TO RW23 FROM 2.00 TO 2.10 - MOVED FOR VERTICAL ANGLE ALTITUDE DUE TO NEW SDF MIN ALT 1140
7. ADDED RW23 (MAP)-698 MSL (CA) LEG - RQD FOR RNAV (GPS) CODING
8. ADDNL FLT DATA: DELETED 'CHART FAS OBST: 629 TREE 430459N/0735053W' - NOT IN NON-PRECISION SEGMENT
9. ADDNL FLT DATA: CHANGED CHART FAS OBST '513 TREE 430331N/0735103W' TO '541 TREE 430330N/0735205W' - PER IPDS BUILD; NEW VG SURVEYS AS OF 12/11/2012
10. LOWERED LPV 'DH / VIS / HAT' FROM '745 / 1 SM / 314' TO '698 / 7/8 SM / 267' - PER IPDS BUILD (ATC APPROVED); NEW VG SURVEYS AS OF 12/11/2012
11. LOWERED LNAV/VNAV 'DH / VIS / HAT' FROM '1046 / 2 1/4 SM / 615' TO '706 / 7/8 SM / 275' - PER IPDS BUILD (ATC APPROVED); NEW VG SURVEYS AS OF 12/11/2012 (NO LONGER MA ADJ/PENS)
12. LOWERED LNAV 'MDA / VIS / HAT' FROM '860 / 1 SM (CATS A/B) 1 1/4 SM (CAT C) 1 1/2 (CAT D) / 429' TO '800 / 1 SM (ALL CATS) / 369' - PER IPDS BUILD (ATC APPROVED); NEW VG SURVEYS AS OF 12/11/2012
13. LOWERED CIRCLING CAT A MDA/HAA BY 20 FT - PER IPDS BUILD (ATC APPROVED); NEW VG SURVEYS ON ALL RWYS AS OF 12/11/2012
14. RAISED CIRCLING CATS B AND C MDA/HAA BY 60 FT - RADII EXPANDED TO CURRENT 8260.3C CRITERIA; NEW VG SURVEYS ON ALL RWYS AS OF 12/11/2012
15. RAISED CIRCLING CAT C VIS BY 1/4 SM - DUE TO 60 FT HIGHER MDA/HAA
16. RAISED CIRCLING CAT D 'MDA / VIS / HAA' FROM '1100 / 2 SM / 666' TO '1340 / 3 SM / 906' - RADII EXPANDED TO CURRENT 8260.3C CRITERIA; MAP STUDY FOR HIGH TERRAIN + 200 FT AAO
17. CHANGED DISTANCE TO THLD FROM '314 HAT: 0.81 NM' TO '267 HAT: 0.68 NM' - LPV HAT LOWERED (ATC APPROVED)
18. ADDNL FLT DATA: REMOVED 'CHART APT ELEV 434, TDZ ELEV 431' - EXTRANEIOUS DATA, NO LONGER RQD.
19. ADDNL FLT DATA: ADDED 'CHART CIRCLING ICON' - RADII EXPANDED TO CURRENT 8260.3C CRITERIA
20. ADDNL FLT DATA: ADDED 'LTP HAE: 99.5 M' - FAS DATA UPDATED
21. FAC CHANGED FROM 232.57 TO 232.58 - PFAF/FAF MOVED .1NM NORTHEAST (HEADING ADJUSTED DUE TO EARTH CURVATURE)
22. DIST FAF TO MAP / THLD CHANGED FROM 5.61 TO 5.71- FAF MOVED .1NM NORTHEAST
23. PROCEDURAL TCH LOWERED FROM 60.0 TO 55.0 - TO GET CLOSER TO 42.7 VGSi TCH AND AIRCRAFT WHEEL HEIGHT GROUP USING THIS AIRPORT (FPT/ATC APPROVED), 55 RQD TO ELIMINATE VGS PENS
24. UNCOMPENSATED BARO-VNAV NOTE CHANGED FROM 'ABOVE 48C (118F)' TO 'ABOVE 54C' - CALCULATED USING AFS LOW/HIGH TEMP LIMIT CALCULATOR, FAHRENHEIT NO LONGER REQUIRED IAW 8260.19H.
25. ADDED 'RWY 23' TO 'CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED' NOTE - 8260.19H, 8-6-11, K. (3)
26. CHANGED CHART NOTE 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE ALBANY ALTIMETER SETTING AND INCREASE ALL DA 64FT, AND MDA 80FT. INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/4 MILE. INCREASE LNAV AND CIRCLING CAT C VISIBILITY 1/4 MILE AND CIRCLING CAT D VISIBILITY 1/2 MILE' TO 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBANY ALTIMETER SETTING AND INCREASE ALL DAS 63FT AND MDAS 80 FT. INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/8 SM, LNAV CATS C/D VISIBILITY 3/8 SM, AND CIRCLING CAT C VISIBILITY 1/4 SM' - RASS ADJ CALCULATED TO 62.91, MINIMA CHANGED WITH ATC APPROVAL.
27. CHANGED FAS DATA: LTP LAT/LONG FROM '430319.8575N/0735123.0975W' TO '430319.8565N/0735123.0975W', FPAP FROM '430210.1300N/0735238.7600W' TO '430210.1225N/0735238.7610W', TCH FROM 60.0 TO 55.0, CRC REMAINDER FROM 'D8DADF11' TO 'E2D5B373' - PER CURRENT AIRPORT DATA (TCH LOWERED TO GET CLOSER TO 42.7 VGSi TCH AND APPROPRIATE AIRCRAFT WHEEL HEIGHT GROUP FOR THOSE USING THIS AIRPORT).
28. VDP CHANGED FROM 1.22 TO 1.03 MILES - 20:1 SURFACE CLEAR, NEW CALCULATED DISTANCE
29. REMOVED NOTE: DME/DME RNP-0.3 NA - REPLACED WITH PBN REQUIREMENTS NOTE: RNP APCH.
30. ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.58 CH 3.

PDF EDITS:

- 3, TERMINAL ROUTES, RW23 (MAP)-698 MSL (CA) DELETED '698' FROM ALTITUDE COLUMN.
- 3, REMOVED '(F)' FROM NOTE '...-15C (F) OR ABOVE 54C (F)' - FAHRENHEIT NO LONGER RQD PER 8260.19H.
- 3, LINES OF MINIMA, ADDED LNAV AND CIRCLING - KNOWN SIAP ERROR, REPORTED TO APAS.
- 9, LNAV/VNAV AND LNAV MISSED APPROACHES REMOVED 'TREE (36-100050)' PENETRATION, SHOULD BE ASC.
- 9, MOVED "ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED" FROM NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS TO PART C: GENERAL REMARKS.
- 9, CHANGED "MAP" TO "ARP" IN AIRSPACE.
- 9, FIXED AVERAGE COLD TEMPERATURE DERIVED DEVIATION REMARK FROM 14C TO -30C.



COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZBW, ALB APP CON

FLIGHT CHECKED BY

BOB S PRESSLER

DEVELOPED BY

LUCAS MCCLLOUD

APPROVED BY

JULIE MORGAN

Digitally signed by
LUCAS MCCLLOUD
Apr 04, 2018

OFFICE

FICO

OFFICE

AJV-5422

OFFICE

AJV-5420

DATE

5/15/18

DATE

03/19/2018

DATE

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TITLE
MANAGER



