

**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> 5B2	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> 1E	<u>CITY</u> SARATOGA SPRINGS	<u>STATE</u> NY		
<u>AIRPORT ELEVATION</u> 434	<u>TDZE</u> 434	<u>SUPERSEDED</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 14W	<u>EPOCH YEAR</u> 1995
<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>
ALB VORTAC		YARUS		TF	FB	1.00	330.56	8.44	3500
ROOMS		UCANA		TF	FB	1.00	114.41	16.22	4000
UCANA		ZANVA		TF	FB	1.00	115.86	4.95	3500
YARUS	IAF	WALTU	NOPT	TF	FB	1.00	322.48	5.00	3000
ZANVA	IAF	WALTU	NOPT	TF	FB	1.00	142.36	5.00	3000
WALTU	IF/IAF	ICOPA		TF	FB	1.00	052.40	6.03	2100
ICOPA	FAF	RW05	MAP	TF	FO	0.30	052.46	5.02	
RW05	MAP	834 MSL		CA			052.46		
834 MSL		TAYVO		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: RW05

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT TAYVO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



CHANGES - REASONS

1. REMOVED CHART NOTE, "VGSI AND DESCENT ANGLES NOT COINCIDENT" - DUE TO REMOVAL OF RWY 05 VGSI SYSTEM.
2. CHANGED BACKUP ALTIMETER NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBANY ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET AND LNAV CAT C/D VISIBILITY TO 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBANY ALTIMETER SETTING AND INCREASE ALL MDAS 80 FEET AND LNAV CAT C/D VISIBILITIES 1/8 SM" - NEW FORMAT AND VISIBILITY CALCULATIONS.
3. ADDED TO PROFILE LINE 7, "20:1 IS NOT CLEAR" - PENETRATIONS DOCUMENTED, REQUIRED IAW 8260.19H PARA 8-6-7G(3).
4. ADDED "MAX 6000" TO HOLD-IN-LIEU ON LINE 2 - PER .19H PARA 8-6-7B (2).
5. CHANGED CHART NOTE FROM: "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 5 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - CHANGE IN DOCUMENTATION FORMAT.
6. CHANGES FROM P-NOTAM 9/0932 FOR AMDT 1D INCORPORATED INTO FORM - IAW 8260.19H 8-3-4 C(3).
7. CHANGED CHART PLANVIEW NOTE: "PROCEDURE NA FOR ARRIVAL ON ALB VORTAC AIRWAY RADIALS 250 CW 026" TO "PROCEDURE NA FOR ARRIVAL ON ALB VORTAC AIRWAY RADIALS 250 CW 003" - TURNS EXCEEDS CRITERIA: 90 DEGREES.
8. ADDITIONAL FLIGHT DATA: CHANGED "ICOPA TO RW05: 3.00/46" TO "ICOPA TO RW05: 3.04/46" - IAW 8260.19H.
9. CHANGED FAS OBSTACLE FROM 599 TREE 430111N/0735441W TO 1361 599 TOWER 425952N/0735448W - NEW OBSTACLE EVALUATION.
10. REMOVED CHART VDP AT 1.19 NM TO RW05 - 20:1 PENETRATIONS.
11. REMOVED CHART NOTE: VDP NA WHEN USING ALBANY ALTIMETER SETTING - 20:1 PENETRATIONS.

COORDINATED WITH:

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

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE *Digitally signed by* **DATE**
DAVID TEFFETELLER

Nov 19, 2020

DEVELOPED BY

WARDELL HENNING (GORDON LEMON)

Digitally signed by

DAVID TEFFETELLER

Nov 19, 2020

OFFICE **DATE**
AJV-A432 10/05/2020

APPROVED BY

LONNIE EVERHART

Digitally signed by
DAVID TEFFETELLER
Nov 19, 2020

OFFICE **DATE**
AJV-A430

TITLE
MANAGER



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
5B2	RNAV (GPS) RWY 5	1E	SARATOGA SPRINGS	NY	434	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
ALB VORTAC

TO
YARUS

<u>RNP</u>	<u>DISTANCE</u> 8.44	<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>
1.TWR (36-001260)	425244.00N/0735145.00W		742	50	20	2C	2000				AT758	3500
2.TERRAIN	424813.00N/0735256.00W		475 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM
ROOMS

TO
UCANA

<u>RNP</u>	<u>DISTANCE</u> 16.22	<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>
3.AAO	430439.00N/0743048.00W		1916	164	98	4E	2000					4000
4.TERRAIN	430439.00N/0743045.00W		1716 (1700)								AS1500	3200

COMPUTATIONS

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

SEGMENT REMARKS:



FEEDER

FROM

UCANA

TO

ZANVA

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.95											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TWR (36-001331)	425905.00N/0741054.00W		1491	100	50	3D	2000					3500
6.TERRAIN	430012.00N/0740330.00W		1041 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

YARUS

TO

WALTU

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	425445.00N/0740242.00W		1283	164	98	4E	1000				AT717	3000
8.TERRAIN	425445.00N/0740242.00W		1083 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM
ZANVA

TO
WALTU

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.AAO	425457.00N/0740233.00W		1303	164	98	4E	1000				AT697	3000
10.TERRAIN	425457.00N/0740233.00W		1103 (1100)								AS1500	2600

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

INTERMEDIATE

FROM
WALTU (IF/IAF)

TO
ICOPA

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.03											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.AAO	425457.00N/0740233.00W		1303	164	98	4E	500					1900
10.TERRAIN	425457.00N/0740233.00W		1103 (1100)								AS1000	2100

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



FINAL: LNAV

FROM

ICOPA

TO

RW05

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.02		RW05	426								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.TOWER (36-020606)	425952.39N/0735447.89W		599	20	3	1A	250					860

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

WALTU

TO

P-5

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
		P-5										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
12.TWR (36-001657)	424805.54N/0741048.94W		1656	20	3	1A	1000				AT344	3000
13.TERRAIN	424830.00N/0740915.00W		1418 (1400)								AS1500	2900

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

RW05

TO

TAYVO

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
							760					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
14.AAO	431327.00N/0734354.00W		1316	164	98	4E	1000				SA-10	2400
15.TERRAIN	431209.00N/0734448.00W		1069 (1100)								AS1500	2600

COMPUTATIONS

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

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER

RW05

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	430309.00N/0731324.00W	103	28.3	3307	164	98	4E	1000			4400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ALB APP CON, BTV FSS

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> K5B2	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> K5B2	<u>DISTANCE</u> 0	<u>SERVICE-A</u> N	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KALB	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KALB	<u>DISTANCE</u> 18.3	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 64

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME.
K5B2 434, KALB 285
RA = 63.1

<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>
RW05 - MIRL (PCL), REIL (PCL)		NPI-G	
RW14		NPI-G	
RW23 - MIRL (PCL), REIL (PCL), PAPI-2L		NPI-G	
RW32		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>	<u>TCH</u>
<u>FINAL APPROACH COURSE AIMING</u>						
RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE			
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE				
<u>CRITICAL TEMPERATURES</u>						
<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>			

CRITICAL TEMPERATURE REMARKS:



“VISUAL PORTION OF FINAL” PENETRATIONS

Final Type	LNAV	
20:1		
508 TREE (36-031387) 430230.23N/0735210.88W (12.03)		532 TREE (36-031485) 430226.33N/0735215.92W (8.93)
524 TREE (36-031476) 430227.66N/0735215.64W (6.85)		511 TREE (36-031371) 430229.68N/0735214.79W (3.81)
532 TREE (36-031491) 430226.12N/0735217.96W (3.38)		500 TREE (36-031390) 430231.97N/0735214.42W (2.74)
529 TREE (36-031488) 430225.00N/0735215.29W (2.12)		503 TREE (36-031364) 430231.76N/0735216.15W (0.91)
498 TREE (36-031389) 430232.84N/0735215.90W (0.76)		
Final Type	LNAV	
34:1		
527 TREE (36-031305) 430224.38N/0735217.78W (33.57)		513 TREE (36-031484) 430230.78N/0735222.89W (27.54)
518 TREE (36-031283) 430226.77N/0735220.52W (26.42)		523 TREE (36-031236) 430224.38N/0735220.12W (26.39)
512 TREE (36-115857) 430227.74N/0735217.81W (26.36)		500 TREE (36-031363) 430229.98N/0735212.94W (26.2)
516 TREE (36-031309) 430227.22N/0735223.74W (21.09)		518 TREE (36-031239) 430222.25N/0735216.72W (21.05)
525 TREE (36-031267) 430221.88N/0735221.64W (20.5)		507 TREE (36-031493) 430228.97N/0735223.13W (16.99)
517 TREE (36-031245) 430222.80N/0735220.04W (16.82)		515 TREE (36-031241) 430226.93N/0735225.90W (16.47)
506 TREE (36-031492) 430229.79N/0735224.49W (16.06)		522 TREE (36-031271) 430222.13N/0735223.56W (15.47)
516 TREE (36-031249) 430223.20N/0735221.93W (14.18)		517 TREE (36-031265) 430220.71N/0735218.44W (14.12)
506 TREE (36-031304) 430229.26N/0735225.52W (13.42)		515 TREE (36-031248) 430224.47N/0735223.93W (13.42)
523 TREE (36-067215) 430219.04N/0735222.78W (10.33)		498 TREE (36-031285) 430227.45N/0735221.98W (6.02)
512 TREE (36-086540) 430220.43N/0735221.58W (4.2)		467 POLE (36-118813) 430233.34N/0735210.93W (3.77)
502 TREE (36-031242) 430227.33N/0735226.76W (3.24)		500 TREE (36-031240) 430225.41N/0735222.31W (2.81)
514 TREE (36-100339) 430220.66N/0735225.35W (1.61)		506 TREE (36-031269) 430225.37N/0735228.56W (0.22)

HELICOPTER ‘VISUAL PORTION OF FINAL’ PENETRATIONS

and/or
5280-FT “PROCEED VFR” SEGMENT LEVEL SURFACE AREA PENETRATIONS



PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

TAA NOT DEVELOPED PER ATC REQUEST.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TREES 100 FEET UNLESS OTHERWISE NOTED PER NEW YORK STATE DEPT OF ENVIRONMENTAL CONSERVATION, DIVISION OF LANDS AND FOREST MAXIMUM TREE HEIGHT DATA.

VDP NOT ESTABLISHED. 20:1 PENETRATIONS.



PART E: PREPARED BY

<u>NAME</u> WARDELL HENNING (GORDON LEMON)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 10/05/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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