

**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> SYRACUSE HANCOCK INTL	<u>AIRPORT ID</u> KSYR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> SYRACUSE	<u>STATE</u> NY	
<u>AIRPORT ELEVATION</u> 421	<u>TDZE</u> 409	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 06/28/2005	<u>MAG VAR</u> 13W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020	<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>
GTOWN	IAF	FESUM		TF	FB	1.00	356.41	8.67	3800
FESUM		LOLYE		TF	FB	1.00	000.39	2.45	3100
LOLYE	IF	JAMLU		TF	FB	1.00	326.97	3.35	2700
JAMLU		XANTY		TF	FB	1.00	326.91	2.90	2300
XANTY	FAF	MATCHK/3.60 NM TO RW33		TF	FB	0.30	326.91	2.20	
MATCHK/3.60 NM TO RW33		RW33	MAP	TF	FO	0.30	326.91	3.60	
RW33	MAP	715 MSL		CA			326.91		
715 MSL		ELESE		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW33

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT ELESE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF (IAF)

2. PROFILE STARTS AT LOLYE

3. FAC: 326.91      FAF: XANTY      DIST FAF TO MAP: 5.80      DIST FAF TO THLD: 5.80

4. MIN ALT:    LOLYE 3100, JAMLU 2700, XANTY 2300, MATCH/3.60 NM TO RW33 1580\*

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      306 HAT: 0.82      GS ANT:

6. MIN GP INCPT: 2300      GP ALT AT FAF : XANTY 2300      OM:      MM:      IM:

7. GP ANGLE: 3.00      34:1: IS NOT CLEAR      20:1: IS CLEAR      TCH: 50.1

8. MSA FROM: RW33 3700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART VDP AT 1.14 NM TO RW33\*  
\*LNAV ONLY  
WAAS CHANNEL #81823  
REFERENCE PATH ID: W33A  
CHART FAS OBST: 569 TREE 430613N/0760406W.  
CHART: 800 TOWER 430313N/0755908W.  
699 AAO 430359N/0760156W.  
HOLD NW, RT, 146.70 INBOUND  
LTP HAE: 88.9 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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
LPV DA	715	4500	306	715	4500	306	715	4500	306	715	4500	306			
LNAV/VNAV DA	882	1 3/8	473	882	1 3/8	473	882	1 3/8	473	882	1 3/8	473			
LNAV MDA	820	5500	411	820	5500	411	820	6000	411	820	6000	411			
CIRCLING	900	1	479	920	1	499	1020	1 1/2	599	1180	2 1/2	759			



CHANGES - REASONS

1. REMOVED GGT VORTAC AND REPLACED WITH NEW WP GTOWN AND UPDATED INITIAL SEGMENT DISTANCE FROM 8.68 TO 8.67 - VOR MON DECOMMISSIONING OF GGT.
2. UPDATED TERMINAL ROUTES FESUM TO LOLYE INITIAL SEGMENT COURSE/DISTANCE FROM 356.37/2.75 TO 000.39/2.45, LOLYE TO JAMLU INITIAL STEPDOWN SEGMENT DISTANCE FROM 3.00 TO 3.35, AND JAMLU TO XANTY INTERMEDIATE STEPDOWN SEGMENT COURSE/DISTANCE FROM 326.94/3.00 TO 326.91/2.90 - LEGS UPDATED TO CURRENT CRITERIA IAW 8260.58A, PARA 1-2-5.B. (1).
3. ADDED SDF MATCH/3.60 NM TO RW33 TO LNAV FINAL SEGMENT - ACHIEVE LOWER LNAV LANDING MINIMUMS PER FPT.
4. UPDATED FAC FROM 326.90 TO 326.91 AND DIST FAF TO MAP/THLD FROM 5.71/5.71 TO 5.80/5.80 - NEW PROCEDURE BUILD ALIGNED PROCEDURE STRAIGHT-IN.
5. CHANGED TCH FROM 50.0 FT TO 50.1 FT - ALLOWS VGSI AND GPA TO BE COINCIDENT IAW 8260.19H, PARA 8-6-9.M.
6. ADDED "20:1 IS CLEAR" TO PROFILE, LINE 7 - IAW 8260.19H, PARA 8-6-7.G.(3).
7. REMOVED DME/DME RNP-0.3 NA CHART NOTE AND REPLACED WITH RNP APCH IN PBN REQUIREMENTS NOTES - IAW 8260.19H, PARA 8-6-8.
8. REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GGT VORTAC VIA V153-273 SOUTHEASTBOUND" - GGT DECOM.
9. REMOVED "BARO-VNAV NA BELOW -15C (5F)" AND ADDED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20 DEG C OR ABOVE 54 DEG C" - NEW CRITICAL TEMPERATURE SURVEY COMPLETED FROM 5-YEAR HISTORY; IAW 8260.19H, PARA 8-6-9.S.
10. ADDED "CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - INCORPORATED NOTAM FDC 8/5964; IAW 8260.19H, PARA 8-6-11.K.(3).
11. ADDED "CHART VDP AT 1.14 NM TO RW33"" AND ""LNAV ONLY"" TO ADDITIONAL FLIGHT DATA - NO PENETRATING OBSTACLES TO 20:1 SURFACE; VDP PUBLISHABLE IAW 8-6-10.N.
12. ADDED CHART CIRCLING ICON NOTE TO ADDITIONAL FLIGHT DATA - NEW CIRCLING CRITERIA APPLIED.
13. REMOVED "ROUTE TYPE DESCRIPTION: A, R", "APPROACH ROUTE QUALIFIER 1: W, J", AND "APPROACH ROUTE QUALIFIER 2: S" FROM ADDITIONAL FLIGHT DATA - INFORMATION NOT REQUIRED IAW 8260.19H, PARA 8-6-10.
14. UPDATED CHART FAS OBST FROM 505 TREE AND 578 TOWER TO 569 TREE AND UPDATED 7:1 OBSTACLES FROM 829 TREE TO 699 AAO AND 800 TOWER - NEW PROCEDURE BUILD AND ADDITION OF STEPDOWN FIX YIELDED NEW FAS AND 7:1 OBSTACLES.
15. RELOCATED ADDITIONAL FLIGHT DATA "DISTANCE TO THLD FROM 325 HAT: 0.89" TO PROFILE, LINE 5 AND UPDATED TO "DIST TO THLD FROM 306 HAT: 0.82" - IAW 8260.19H, PARA 8-6-7.E.(3).
16. UPDATED LPV ALL CATS LANDING MINIMUMS DA/VIS/HAT FROM 734/60/325 TO 715/45/306 - NEW EVALUATION AND VIS CHECK PERFORMED YIELDED NEW LANDING MINIMUMS.
17. UPDATED LNAV/VNAV ALL CATS LANDING MINIMUMS DA/VIS/HAT FROM 874/ 1 3/4 /465 TO 882/ 1 3/8 /473 - NEW EVALUATION AND VIS CHECK PERFORMED YIELDED NEW LANDING MINIMUMS
18. UPDATED LNAV ALL CATS LANDING MINIMUMS MDA/HAT FROM 880/471 TO 820/411, CATS A AND B VIS FROM 50 TO 55, AND CAT D VIS FROM 1 1/2 TO 60 - NEW EVALUATION AND VIS CHECK PERFORMED AND ADDITION OF SD FIX YIELDED NEW LANDING MINIMUMS.
19. UPDATED CIRCLING CAT A MDA/VIS/HAA FROM 880/ 1 3/4 / 459 TO 900/1/479, CAT B MDA/VIS/HAA FROM 880/ 1 3/4 / 459 TO 920/1/499, CAT C MDA/VIS/HAA FROM 900/ 1 3/4 / 479 TO 1020/ 1 1/2 / 599, AND CAT C MDA/VIS/HAA FROM 980/2/559 TO 1180/ 2 1/2 / 759 - INCORPORATED NOTAM FDC 9/9585; NEW EVALUATION AND VIS CHECK PERFORMED YIELDED NEW LANDING MINIMUMS.
20. ADDED "CAT D 800-2 1/2" TO ALTERNATE WEATHER - NEW VIS CHECK PERFORMED.
21. FAS DATA LTP/FTP LAT/LONG CHANGED FROM "...5.1300N/...3.2800W" TO "...5.1090N/...3.2755W"; FPAP LAT/LONG CHANGED FROM "...6.8500N/...1.0300W" TO "...6.8395N/...1.0155W"; LTP AND FPAP ORTHOMETRIC HEIGHTS CHANGED FROM "+012225" TO "+01224" - UPDATED AIRNAV DATA.
22. CRC REMAINDER CHANGED FROM "F57EB3DB" TO "FB9F1F22" - FAS DATA UPDATE.

COORDINATED WITH:

AAA☒ALPA☒AOPA☒APA☒HAI☐NBAA☒OTHER: ZBW, SYR APP CON, SYR ATCT, AMGR, NY DOT

FLIGHT CHECKED BY

Digitally signed by  
ALEX KRAUSE  
MARLON J ROBINSON

OFFICE

FICO

DATE

11/17/19

DEVELOPED BY

Nov 19, 2019  
CASIMIR L. TABAKA (MADELINE CLARK)

Digitally signed by  
HEIDI SNIDER

OFFICE

AJV-A422

DATE

08/22/2019

APPROVED BY

Digitally signed by  
MARLON ROBINSON  
HEIDI SNIDER  
Nov 01, 2019

OFFICE

AJV-A420

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSYR
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	430625.1090N
LTP/FTP LONGITUDE	0760533.2755W
LTP/FTP ELLIPSOIDAL HEIGHT	+00889
FPAP LATITUDE	430726.8395N
FPAP LONGITUDE	0760701.0155W
THRESHOLD CROSSING HEIGHT (TCH)	00050.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0464
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	FB9F1F22

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01224
FPAP ORTHOMETRIC HEIGHT	+01224

