

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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
SYI	RNAV (GPS) RWY 18	1	SHELBYVILLE	TN		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
800	799	RNAV (GPS) RWY 18	ORIG-A	06/18/2020	1W	1985
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		17 APRIL 2025	ROUTINE			

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>
JOVNA	IAF	IBCum	NOPT	TF	FB	1.00	090.18	14.99	3000
OKENE	IAF	IBCum	NOPT	TF	FB	1.00	271.48	11.62	3000
IBCum	IF/IAF	JECUC		TF	FB	1.00	180.36	5.93	2500
JECUC	FAF	KADTI/2.70 NM TO RW18		TF	FB	0.30	180.36	2.50	
KADTI/2.70 NM TO RW18		RW18	MAP	TF	FO	0.30	180.36	2.70	
RW18	MAP	1400 MSL		CA			180.36		1400
1400 MSL		IBCum		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW18

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 3000 DIRECT IBCUM AND HOLD

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	HOLD N IBCUM, RT, 180.36 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3.	FAC: 180.36	FAF: JECUC		DIST FAF TO MAP: 5.20	DIST FAF TO THLD: 5.20	
4.	MIN ALT: IBCUM 3000, JECUC 2500, KADTI/2.70 NM TO RW18 1700					
5.	DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.64	GS ANT:
6.	MIN GP INCPT: 2500	GP ALT AT PFAF: JECUC 2500		OM:	MM:	IM:
7.	GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 45.0		
8.	MSA FROM: RW18 3300					



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OKENE ON V321 NORTHEAST BOUND.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

FAS OBST: 914 AAO 353345N/0862621W.  
CHART 1131 TREE 353700N/0862545W.  
CHART VDP AT 1.49 NM TO RW18.  
WAAS CHANNEL # 50407  
REFERENCE PATH ID: W18A  
CHART CIRCLING ICON.  
LTP HAE: 215.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C, 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
LPV DA	999	3/4	200	999	3/4	200	999	3/4	200	999	3/4	200			
LNAV/VNAV DA	1184	1 1/8	385	1184	1 1/8	385	1184	1 1/8	385	1184	1 1/8	385			
LNAV MDA	1300	1	501	1300	1	501	1300	1 3/8	501	1300	1 3/8	501			
CIRCLING	1300	1	500	1360	1	560	1780	3	980	1780	3	980			



CHANGES - REASONS

1. TERMINAL ROUTES: IBCUM TO JECUC: CHANGED RNP VALUE FROM "0.50" TO "1.00" AND DISTANCE FROM "6.00" TO "5.93" – TO BRING ROUTE UP TO CURRENT CRITERIA AND A NEW TARGETS EVALUATION IDENTIFIED A NEW PFAF LOCATION.
2. TERMINAL ROUTES: JECUC TO KADTI/2.70 NM TO RW18: DISTANCE CHANGED FROM "2.43" TO "2.50" – NEW TARGETS CALCULATION IDENTIFIED NEW PFAF LOCATION.
3. TERMINAL ROUTES: DELETED "RW18 TO UCELI" – REPLACED WITH NEW MISSED APPROACH HOLDING.
4. TERMINAL ROUTES: ADDED "RW18 TO 1400 MSL" ROUTE – PER ATC REQUEST.
5. TERMINAL ROUTES: ADDED "1400 MSL TO IBCUM" ROUTE AND ALL ASSOCIATIONS – PER ATC REQUEST.
6. MISSED APPROACH: CHANGED FROM "CLIMB TO 3000 DIRECT UCELI AND HOLD" TO "CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 3000 DIRECT IBCUM AND HOLD" – PER ATC REQUEST.
7. PROFILE LINE 3: DIST FAF TO MAP AND FAF TO THLD" CHANGED FROM "5.13" TO "5.20" – TARGETS CALCULATION IDENTIFIED NEW FAF LOCATION.
8. PROFILE LINE 5: 250 HAT CHANGED FROM ".65" TO ".64" – NEW TARGETS EVALUATION.
9. PROFILE LINE 7: ADDED 20:1 "IS CLEAR" – TO BRING FORMS UP TO CURRENT CRITERIA.
10. PBN REQUIREMENTS NOTES: ADDED "RNP APCH-GPS" – TO BRING FORMS UP TO CURRENT CRITERIA.
11. NOTES: DELETED "DME/DME RNP-0.3 NA" – TO BRING FORMS UP TO CURRENT CRITERIA.
12. NOTES: UPDATED CHART PROFILE NOTE "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO READ "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) – TO BRING PROFILE NOTE UP TO CURRENT CRITERIA.
13. NOTES: CHART NOTE: DELETED "LNAV ONLY" – NO LONGER REQUIRED BY CRITERIA.
14. NOTES: UPDATED CHART NOTE: "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C (4°F) OR ABOVE 47°C (116°F)" TO READ "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 16°C OR ABOVE 54°C" – BROUGHT UP TO CURRENT CRITERIA AND A NEW TARGETS EVALUATION.
15. ADDITIONAL FLIGHT DATA: CHANGED "CHART VDP AT 1.47 MILES TO RW18" \*LNAV ONLY" TO READ "CHART VDP AT 1.49 NM TO RW 18" – UPDATED FORMS TO NEW CRITERIA.
16. ADDITIONAL FLIGHT DATA: UPDATED FAS OBST NOTE FROM "CHART FAS OBST: 933 TREE (KSYIT003) 353640N/0862537W, 847 TREE (KSYIT006) 353426N/0862620W" TO READ "FAS OBST: 914 AAO 353345N/0862621W" – NEW TARGETS EVALUATION.
17. ADDITIONAL FLIGHT DATA: CHANGED "CHART 1359 TREE 353714N/0862537W" TO READ "CHART 1131 TREE 353700N/0862545W" – NEW TARGETS EVALUATION.
18. MINIMUMS: LPV ALL CATS: HAT CHANGED FROM "250" TO "200" AND DA CHANGED FROM "1050" TO "999" – NEW SURVEY DATA/TARGETS EVALUATION AND LOWER MINIMUMS STUDY.
19. MINIMUMS: LNAV/VNAV ALL CATS DA CHANGED FROM "1316" TO "1184"; HAT FROM "516" TO "385" AND VISIBILITY FROM "1 3/4" TO "1 1/8" – NEW SURVEY DATA/TARGETS EVALUATION AND LOWER MINIMUMS STUDY.
20. MINIMUMS: LNAV ALL CATS MDA CHANGED FROM "1280" TO "1300"; HAT FROM "480" TO "501"; CAT C VISIBILITY FROM "1 1/4" TO "1 3/8" AND CAT D FROM "1 1/2" TO "1 3/8" - NEW TARGETS EVALUATION.
21. MINIMUMS: CIRCLING CAT A CMDA/HAA CHANGED FROM "1280/479" TO "1300/500"; CAT B CMDA/HAA CHANGED FROM "1420/619" TO "1360/560" - NEW TARGETS EVALUATION.
22. FAS DATA: LTP/FTP LATITUDE CHANGED FROM "353401.0485N" TO "353401.0545N" AND LONGITUDE FROM "0862633.2840W" TO "0862633.2720W" – CURRENT AIRNAV DATA AND CALCULATIONS.
23. FAS DATA: FPAP LATITUDE CHANGED FROM "353231.8200N" TO "353231.8245N" AND LONGITUDE FROM "0862632.0600W" TO "0862632.0490W" – CURRENT AIRNAV DATA AND CALCULATIONS.
24. FAS DATA: VERTICAL ALERT LIMIT CHANGED FROM "50" TO "35"; CRC REMAINDER CHANGED FROM "D68972B5" TO "BAA17708" AND LTP/FPAP ORTHOMETRIC HEIGHT CHANGE FROM "+02436" TO "+02435" – CURRENT AIRNAV DATA AND CALCULATIONS.
25. NOTES: BACKUP ALTIMETER NOTES MOVED TO THE 8260-9 GENERAL REMARKS FOR CONTINGENCY PURPOSES AND UPDATED THE BACKUP ALTIMETER NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TULLOHOMA ALTIMTER SETTING AND INCREAS LPV DA TO 1123, LNAV/VNAV DA TO 1389, ALL MDA 80 FEET, INCREASE LPV ALL CATS VISIBILITY 1/2 MILE, LNAV/VNAV ALL CATS VISIBILITY ¼ MILE AND LNAV CAT C AND D VISIBILITY 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THA ALITMETER SETTING AND INCREASE LPV DA TO 1123 AND ALL VISIBILITIES 1/4 SM. INCREASE LNAV/VNAV DA TO 1435 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 3/8 SM" AND UPDATED CHART NOTE "BARO-VNAV AND VDP NA WHEN USING TULLAHOMA ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING THA ALTIMETER SETTING" – NEW TARGETS EVALUATION/FPT REQUEST.

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZME, AIRPORT MANAGER

FLIGHT CHECKED BY

GEORGE E SEARLES

Digitally signed by

CASIMIR L TABAKA

Jan 21, 2025

OFFICE

AJF

DATE

01/16/2025

DEVELOPED BY

WESTLEY OWENS

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Oct 10, 2024

OFFICE

AJV-A431

DATE

08/02/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by

CASIMIR L TABAKA

Jan 21, 2025

OFFICE

AJV-A431

DATE

02/20/2025

TITLE

MANAGER

QUALITY  
39  
CHECKED

AIRPORT ID  
SYI

PROCEDURE NAME  
RNAV (GPS) RWY 18

ORIGINAL/AMENDMENT  
1

CITY  
SHELBYVILLE

STATE  
TN

**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSYI
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	353401.0545N
LTP/FTP LONGITUDE	0862633.2720W
LTP/FTP ELLIPSOIDAL HEIGHT	+02154
FPAP LATITUDE	353231.8245N
FPAP LONGITUDE	0862632.0490W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER	BAA17708
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**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02435
FPAP ORTHOMETRIC HEIGHT	+02435

QUALITY  
39  
CHECKED