

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> KTYS	<u>PROCEDURE NAME</u> ILS OR LOC RWY 5L	<u>ORIGINAL/AMENDMENT</u> 10	<u>CITY</u> KNOXVILLE	<u>STATE</u> TN		
<u>AIRPORT ELEVATION</u> 986	<u>TDZE</u> 953	<u>SUPERSEDED</u> ILS OR LOC RWY 5L	<u>ORIGINAL/AMENDMENT</u> 9A	<u>DATED</u> 03/02/2017	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> I-TYS	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 12 AUGUST 2021	<u>REQUIRED EFFECTIVE DATE</u> 08/12/2021	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
VXV VORTAC		BENFI OM/VXV 13.33 DME/RADAR					226.09	13.33	3000
GROSS INT/VXV VORTAC 29.13 DME	IAF	BENDA INT/VXV VORTAC 20.00 DME	NOPT				095.61 & 050.81	2.75 & 7.15 (I-TYS)	3000
SWELL INT/HCH VOR/DME 28.94 DME	IAF	BENDA INT/VXV VORTAC 20.00 DME	NOPT				102.00	10.84 (HCH R-102)	3000
BENDA INT/VXV 20.00 DME	IF/IAF	BENFI OM/VXV 13.33 DME/RADAR					050.81	6.67 (I-TYS)	2700

MISSED APPROACH

MAP:

ILS: DA
LOC: VXV 8.17 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4100 DIRECT VXV VORTAC AND ON VXV VORTAC R-053 TO NEYLN/VXV 4.66 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4100.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	R	SIDE OF COURSE	230.81	OUTBOUND	3000	FT WITHIN	10	MILES OF	BENFI OM/RADAR (IAF)
2.									
3. FAC:	050.81	FAF: BENFI OM/VXV 13.33 DME/RADAR				DIST FAF TO MAP:		DIST FAF TO THLD: 5.25	
4. MIN ALT:	BENFI OM/VXV 13.33 DME/RADAR 2700, XEWKA/VXV VORTAC 10.33 DME 1700								
5. DIST TO THLD FROM OM:	5.25	MM:	IM:	150 HAT:	GS ANT: 910				
6. MIN GS INCPT:	2700	GS ALT AT FAF :				OM: 2671		MM:	
7. GP ANGLE:	3.00	34:1:	20:1:	TCH: 55.0					
8. MSA FROM:	VXV VORTAC 090-200 7900, 200-090 5100								



EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VXV VORTAC AIRWAY RADIALS 184 CW 265.

ADDITIONAL FLIGHT DATA:

HOLD NE, LT, 232.99 INBOUND.

CHART FAS OBST: 1121 TREE (47-063614) 354638N/0840155W.

CHART: ASR.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 1000-3

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
S-ILS 5L	1153	1/2	200	1153	1/2	200	1153	1/2	200	1153	1/2	200			
S-LOC 5L	1500	1/2	547	1500	1/2	547	1500	1 1/8	547	1500	1 1/8	547			
CIRCLING	1500	1	514	1560	1	574	1660	2	674	1900	3	914			

CHANGES - REASONS

- ROUTE FROM GROSS INT TO BENDA INT COURSE AND DISTANCE CHANGED FROM 090.00/3.08 & 050.81/6.67 TO 095.61/2.75 & 050.81/7.15. - TARGETS ALIGNED DR SEGMENT.
- MISSED APPROACH INSTRUCTIONS CHANGED FROM CLIMB TO 4000 DIRECT VXV VORTAC THEN ON VXV R-053 TO NEYLN/VXV 4.66 DME AND HOLD TO CLIMB TO 6000 DIRECT VXV VORTAC AND ON VXV R-053 TO NEYLN/VXV 4.66 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000. - ACFT ALT IS NOT REQUIRED TO BE 6000 PRIOR TO PROCEEDING ON VXV R-053, CLIMB-IN-HOLD EVALUATION REQUIRED.
- GS ANT ELEVATION CHANGED FROM 918 TO 910 - ILS UPDATED DUE TO RUNWAY CONSTRUCTION.
- REMOVED CHART NOTE: ** RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. - RUNWAY NO LONGER HAS APPROPRIATE RVR SENSORS.
- REMOVED PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). - VGSI AND ILS GLIDEPATH NOW COINCIDENT.
- ADDITIONAL FLIGHT DATA CHANGED FROM HOLD NE, LT, 233.00 INBOUND TO 232.99 INBOUND - TARGETS ALIGNED HOLDING.
- ADDITIONAL FLIGHT DATA CHANGED FROM CHART FAS OBST: 1159 TREES 354640N/0840151W TO 1121 TREE 354638N/0840155W. - NEW FINAL CONTROLLING OBSTACLE.
- REMOVED ADDITIONAL FLIGHT DATA: CHART VDP AT 9.65 DME* AND DISTANCE VDP TO THLD 1.56NM. - VDP NOT PUBLISHABLE (WITHIN 0.5 NM OF FINAL FIX)
- TCH CHANGED FROM 57.3 TO 55 - ILS REALIGNED, 55 IS DESIGN TCH.
- REMOVED ADDITIONAL FLIGHT DATA CHART (CFBMN) AT INTERSECTION OF GROSS DR LEG AND INTERMEDIATE COURSE. - CNF FIX NO LONGER REQUIRED.
- REMOVED ADDITIONAL FLIGHT DATA CHART CIRCLING ICON - REMOVED IAW AJV GUIDANCE.
- S-ILS 05L VISIBILITY CHANGED FROM RVR 2400 TO 1/2 SM - RUNWAY NO LONGER HAS REQUIRED RVR SENSORS.
- S-LOC 05L VIS CHANGED FROM CAT A/B RVR 2400 C/D RVR 6000 TO CAT A/B 1/2 SM CAT C/D 1 1/8 SM. - RUNWAY NO LONGER HAS REQUIRED RVR SENSORS.
- CAT A CIRCLING MINS CHANGED FROM HAA OF 519 TO 514. - AIRPORT ELEVATION CHANGED (UPDATED SURVEY).
- CAT B CIRCLING MINS CHANGED FROM MDA/HAA 1620/639 TO 1560/574 - NEW CIRCLING CONTROLLING OBSTACLE.
- CAT C CIRCLING MINS CHANGED FROM HAA OF 679 TO 674. - AIRPORT ELEVATION CHANGED (UPDATED SURVEY).
- CAT D CIRCLING MINS CHANGED FROM HAA OF 919 TO 914. - AIRPORT ELEVATION CHANGED (UPDATED SURVEY).
- ALTERNATE MINS FOR ILS ARE NOW STANDARD. - 8260.3D TABLE 3-4-1.
- REMOVED CHART PLANVIEW: DME OR RADAR REQUIRED AND ADDED DME OR RADAR REQUIRED TO EQUIPMENT REQUIREMENTS NOTE. - 8260.19I 8-6-8.
- ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VXV VORTAC AIRWAY RADIALS 184 CW 265 - 8260.19I 8-2-5
- DISTANCE FROM BENDA INT/VXV 20.00 DME TO BENFI OM/VXV 13.33 DME/RADAR CORRECTED FROM 6.70 NM TO 6.67 NM - CORRECTED VALUE FROM PREVIOUS FORM.

QUALITY
10
CHECKED

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZTL, TYS APP CON, TYS ATCT, AMGR

Digitally signed by

DONALD H LANIER

May 13, 2021

FLIGHT CHECKED BY

PENDING

OFFICE

DATE

DEVELOPED BY

TYLER MITCHELL

Digitally signed by

TYLER D MITCHELL

Mar 04, 2021

OFFICE

AJV-A432

DATE

01/22/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

DAVID TEFFETELLER

May 11, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER

QUALITY
10
CHECKED