

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW27 CLIMB TO 2000 THEN CLIMBING LEFT TURN 3600 DIRECT HOSEM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 049.46 INBOUND. CHART FAS OBST: 1759 T-L TWR 362902N/0822043W CHART 1787 TREE 362850N/0822033W. DISTANCE TO THLD FROM 270 HAT: 0.71 NM. CHART VDP AT 1.56 NM TO RW27* *LNAV ONLY. WAAS CHANNEL # 63140 REFERENCE PATH ID: W27A CHART CIRCLING ICON. LTP HAE: 428.2 M					
CAKMA		KEPDE (TF) (FB) (RNP 2.00)		207.04 / 10.00				6500							
CAKOD		KEPDE (TF) (FB) (RNP 2.00)		322.09 / 10.00				6500							
KEPDE (IAF)		CITAM (TF) (FB) (RNP 1.00)		262.12 / 5.00				4900							
CITAM (IF)		FAVKA (TF) (FB) (RNP 1.00)		262.06 / 5.00				3400							
FAVKA (FAF)		TRIES/2.60 NM TO RW27 (TF) (FB) (RNP 0.30)		276.11 / 3.17											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT CITAM 3. FAC: 276.11 FAF: FAVKA DIST FAF TO MAP: 5.77 THLD: 5.77 4. MIN. ALT: CITAM 4900, FAVKA 3400, TRIES/2.60 NM TO RW27 2380* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3400 GS ALT AT: FAVKA 3400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS NOT CLEAR 8. MSA FROM: RW27 7500										MAG VAR: 7W EPOCH YEAR: 2020					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @					
CATEGORY ==>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1788	7/8	270	1788	7/8	270	1788	7/8	270	1788	7/8	270			
LNAV/VNAV DA	2034	1 3/4	516	2034	1 3/4	516	2034	1 3/4	516	2034	1 3/4	516			
LNAV MDA	2020	1	502	2020	1	502	2020	1 3/8	502	2020	1 3/8	502			
CIRCLING	2120	1	601	2180	1	661	2300	2 1/4	781	2500	3	981			
NOTES: CHART NOTE: CIRCLING TO RWY 9 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C (7F) OR ABOVE 54C (130F). CHART NOTE: CIRCLING NA NW OF RWY 9-23. CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)															
CITY AND STATE BRISTOL/JOHNSON/KINGSPORT, TN		ELEVATION: 1519 TDZE: 1518 AIRPORT NAME: TRI-CITIES				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1A				SUP: AMDT: 1 DATED 08/17/2017			



ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>ROUTINE</div>	
COORDINATED WITH: <div>ATA<div><input checked="" type="checkbox"/></div>AAT<div><input type="checkbox"/></div>ALPA<div><input checked="" type="checkbox"/></div>APA<div><input type="checkbox"/></div>AOPA<div><input checked="" type="checkbox"/></div>NBAA<div><input checked="" type="checkbox"/></div>OTHER (specify)<div><input checked="" type="checkbox"/>AIRPORT MANAGER, ZTL, EST-FPT, TRI-CITIES APP CON.</div></div>					
FLIGHT CHECKED BY					
NAME: PROCESSED IAW FLIGHT INSPECTION TEAM (AJW-333) MEMO, SUBJECT: FLIGHT INSPECTION NOT REQUIRED.			<div>Digitally signed by JACOB POWERS Oct 31, 2017</div>	FIFO AJW-333	DATE: 05/30/2017
DEVELOPED BY					
NAME: <div>Digitally signed by JACOB POWERS Oct 31, 2017</div> JACOB A. POWERS (IVAN BLANCO)				FIFO AJV-5432	DATE: 07/31/2017
APPROVED BY					
NAME: <div>Digitally signed by JACOB POWERS Oct 31, 2017</div> PATRICK MULQUEEN			MANAGER	FIFO AJV-5430	DATE:
CHANGES: 1. RETURNING LPV FAS DATA.					
REASONS: 1. LPV FAS DATA WAS INADVERTENTLY REMOVED AFTER FI AND PRIOR TO CHARTING, NO CHANGE TO LPV MINIMA.					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
TRIES/2.60 NM TO RW27	RW27 (MAP) (TF) (FO) (RNP 0.30)	276.11 / 2.60	
RW27 (MAP)	2000 MSL (CA)	276.11	2000
2000 MSL	HOSEM (DF) (FO) (RNP 1.00)		3600

NOTES, (CONT.):

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

QUALITY
19
CHECKED

CITY AND STATE BRISTOL/JOHNSON/KINGSPORT, TN	ELEVATION: 1519 AIRPORT NAME: TDZE: 1518 TRI-CITIES	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1A	SUP:
				AMDT: 1
				DATED: 08/17/2017

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTRI
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	362842.6045N
LTP/FTP LONGITUDE	0822344.8680W
LTP/FTP ELLIPSOIDAL HEIGHT	+04282
FPAP LATITUDE	362841.0955N
FPAP LONGITUDE	0822535.3320W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1432
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

074BEFFE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+04597
FPAP ORTHOMETRIC HEIGHT	+04597

QUALITY
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CITY AND STATE

BRISTOL/JOHNSON/KINGSPORT, TN

ELEVATION: 1519

TDZE: 1518

AIRPORT NAME:

TRI-CITIES

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 27, AMDT 1A

SUP:

AMDT: 1

DATED: 08/17/2017

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.			
FEEDER	CAKMA	KEPDE	1. AAO	362851.00N/0820300.00W	3727 (2A)	2000	AT700	6500			
			2. TERRAIN	362851.00N/0820300.00W	3527 (3500)		AS1500	5000			
FEEDER	CAKOD	KEPDE	3. AAO	362530.00N/0820009.00W	4367 (2A)	2000	AT100	6500			
			4. TERRAIN	362530.00N/0820009.00W	4167 (4200)		AS1500	5700			
INITIAL	KEPDE	CITAM	5. AAO	362754.00N/0820430.00W	3872 (2A)	1000		4900			
			6. TERRAIN	362754.00N/0820430.00W	3672 (3700)		AS1000	4700			
INTERMEDIATE	CITAM	FAVKA	7. AAO	362816.61N/0820928.27W	2400 (2C)	500	PR150 AT300	3400			
			8. TERRAIN	362816.61N/0820928.27W	2200 (2200)		AS1000	3200			
FINAL: LPV	FAVKA	RW27	9. TREE (KTRIT000387)	362837.66N/0822341.36W	1578 (1A)	34:1		1788/270			
FINAL: LNAV/VNAV	FAVKA	RW27	10. TREE (KTRIT001491)	362817.07N/0822223.63W	1732 (1A)	23.44:1		2034/516			
FINAL: LNAV	FAVKA	TRIES/2.60 NM TO RW27	11. AAO	362855.05N/0821800.39W	1940 (2C)	250	RA41 DG149	2380			
FINAL: LNAV STEPDOWN	TRIES/2.60 NM TO RW27	RW27	12. T-L TWR (47-022459)	362901.57N/0822042.60W	1759 (1A)	250		2020			
2. PROCEDURE TURN											
3. MISSED APPROACH	MAP: DA / DA / RW27		HOSEM			ASC		3600			
	ELEV: 1569/1873/1920			13. AAO	362212.00N/0823324.00W	2274 (2A)	1000	3300			
				14. TERRAIN	362212.00N/0823324.00W	2074 (2100)	AS1500	3600			
4. CIRCLING AREA		DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	601	15. TREE (KTRIT000776)	362816.79N/0822538.64W	1819 (1A)	300		2120
CATEGORY B	1.5 NM		450		661	16. TREE (KTRIT002152)	362848.80N/0822648.14W	1867 (1A)	300		2180
CATEGORY C	1.7 NM		450		781	17. TREE	363021.24N/0822050.30W	2000 (2C)	300		2300
CATEGORY D	2.3 NM		550		981	18. AAO	363042.47N/0822000.12W	2200 (2C)	300		2500
CATEGORY E	4.5 NM		550								
5. MINIMUM SAFE ALTITUDES											
PRIMARY NAVAID: RW27											
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
360-360	AAO	149/26.0	6447 (2A)	7500							
CITY AND STATE		ELEVATION: 1519			FACILITY		PROCEDURE AND AMENDMENT NO:			REGION	
BRISTOL/JOHNSON/KINGSPORT, TN		AIRPORT NAME: TRI-CITIES			RNAV		RNAV (GPS) RWY 27, AMDT 1A			ASO	

QUALITY
19
CHECKED

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:																			
1. COMMUNICATIONS WITH:					2. WEATHER SERVICE					3. ALTIMETER SETTING					THRESHOLD DISPLACED 127 FEET.														
ZTL ARTCC TRI TOWER TRI APP CON							N W S		OTHER: ASOS			SOURCE:KTRI / K0A9					PRECIPITOUS TERRAIN EVALUATION COMPLETED.												
							F A A					DISTANCE: 0 / 12.91																	
							A / C					HOURS REMOTE OPERATION: 0/YES / 24/YES																	
SATISFACTORY ON:																													
X		V H F		X		U H F				H F		LOCATION: KTRI					ADJUSTMENT: 0 / 41												
4. MONITOR STATUS		PRIMARY NAVAID:																											
		MONITOR POINT:																											
		HRS OPTN:		CAT 1																									
				CAT 3																									
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 23																									
				(S) SALS																									
				MALS																									
		X		HIRL 05, 23																									
		X		MIRL 09, 27																									
		X		REIL 05, 27																									
		X		TDZ 23																									
		X		C/L 05, 23																									
		X		OTHER (SPECIFY) PAPI-4R 23 PAPI-4L 05 (PCL), 27																									
6. RUNWAY MARKINGS				BASIC																									
				ALL WEATHER				PIR-G 05, 23																					
				INSTRUMENT				NPI-G 09, 27																					
7. RUNWAY VISUAL RANGE				APPROACH				05, 23																					
				MIDFIELD																									
				ROLL OUT				05, 23																					
8. GLIDE PATH				GP ANGLE: 3.00						ELEV RWY THRESHOLD:1508.1																			
				DISTANCE FROM RWY:						ELEV GP ANTENNA:																			
										THRESHOLD CROSSING HEIGHT:55.0																			
9. FINAL APPROACH COURSE AIMING				X		RUNWAY THRESHOLD														FT. FROM THRESHOLD									
				X		ON CENTERLINE														FT. FROM CENTERLINE									
10. WAIVERS: NONE																													
PART D - PREPARED BY: JACOB A. POWERS (IVAN BLANCO)										DATE: 07/31/2017										NOTE: BARO-VNAV AND VDP NA WHEN USING ELIZABETHON ALTIMETER SETTING. CONT.									
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5432																			

34:1
1521 TREE (KTRIT000440) 362840.85N/0822338.47W (3.50)
1520 TREE (KTRIT000441) 362841.07N/0822338.52W (2.61)
1520 TREE (KTRIT000442) 362840.96N/0822338.48W (2.52)
1520 TREE (KTRIT000445) 362840.69N/0822338.24W (1.96)
1519 TREE (KTRIT000444) 362840.79N/0822338.31W (1.12)

CIRCLING RWY 9
1782 TREE (KTRIT000697) 362833.22N/0822536.48W (32.53)
1771 TREE (KTRIT000691) 362832.54N/0822536.32W (22.13)
1533 POLE (KTRIT000032) 362843.61N/0822440.23W (14.09)
1764 TREE (KTRIT000739) 362832.87N/0822538.79W (5.07)
1525 T-L TWR (47-022777) 362843.70N/0822440.99W (2.99)
1532 T-L TWR (47-022779) 362842.72N/0822442.82W (2.44)
1620 TREE (KTRIT000297) 362843.62N/0822504.76W (0.93)
1573 TREE (KTRIT000139) 362844.47N/0822453.32W (0.71)

INTERMEDIATE SEGMENT OFF-SET 14.05 DEGREES FROM FINAL
TO ACHIEVE LOWER MINIMUM ALTITUDES.

TCH OF 55.0 USED TO MIMIC PREVIOUS PROCEDURE AS
REQUESTED.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1787 TREE
362850N/0822033W.

CRITICAL TEMPERATURES:
CRITICAL LOW :-14C (+7F)
CRITICAL HIGH :+54C (+130F)
ACT :-14C
APT ISA :+11.99C

CRITICAL TEMPERATURE REMARKS
AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY
(2011, 2012, 2013, 2014, 2015).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 974 HIGH TEMP 1137.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
CAT A: 1.31NM
CAT B: 1.86NM
CAT C: 2.93NM
CAT D: 3.83NM

SEE ATTACHED AIRSPACE LETTER.
RASS PRESSURE PATTERNS SAME
KTRI 1518.7, K0A9 1593
RA = 40.7.

NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE
ELIZABETHON ALTIMETER SETTING AND INCREASE ALL LPV DA
TO 1829 FEET AND LNAV/VNAV DA TO 2075 AND INCREASE ALL
MDA 60 FEET. INCREASE LPV AND LNAV/VNAV VISIBILITIES
ALL CATS 1/8 SM, INCREASE LNAV CAT C AND D
VISIBILITIES 1/4 SM, AND CIRCLING CAT C VISIBILITY 1/4
SM.

QUALITY
19
CHECKED