

UNITED STATES AIR FORCE
TACAN STANDARD INSTRUMENT APPROACH PROCEDURE

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	5.00 NM AFTER ORUYI/TOL 6.00 DME OR AT IXOQY/TOL 1.00 DME FIX
CRL VOR/DME	MYANN/TOL 25.00 DME	192.94 / 52.17	18000	CLIMB TO 3000 THEN LEFT TURN VIA TOL TACAN R-170 TO POUDR/15.00 DME AND HOLD.
FWA VORTAC	MYANN/TOL 25.00 DME	085.14 / 70.64	18000	
ROD VORTAC	MYANN/TOL 25.00 DME	022.91 / 56.95	18000	
MYANN/TOL 25.00 DME (IAF)	POUDR/TOL 15.00 DME	350.00 / 10.00 (TOL R-170)	10000	
POUDR/TOL 15.00 DME CCW (IF/IAF)	IKASE/TOL 15.00 DME	15.00 DME ARC	4000	ADDITIONAL FLIGHT DATA: HOLD S, LT, 350.00 INBOUND. CHART ARRIVAL HOLDING AT MYANN: HOLD S, LT, 350.00 INBOUND, 15,000. CHART FAS OBST: 786 TOWER 413529N/0834654W CHART: ASR. CHART TOL R-170 AT POUDR. CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 956 FT FROM THLD.
IKASE/TOL 15.00 DME (IF)	ORUYI/TOL 6.00 DME	260.00 / 9.00	2400	

- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- PROFILE STARTS AT MYANN/TOL 25.00 DME
- FAC 260.00 FAF ORUYI/TOL 6.00 DME DIST FAF TO MAP 5.00 THLD 5.83
- MIN. ALT MYANN 15000, POUDR 10000, IKASE 4000, ORUYI 2400, ZARIP/TOL 2.50 DME 1240
- MSA FROM: TOL TACAN 3100, ESA W/IN 100 NM 4000

MAG VAR: 5W

EPOCH YEAR: 1990

MINIMUMS

TAKEOFF:	NA	STANDARD					ALTERNATE:			NA	STANDARD @					
CATEGORY		A			B			C			D			E		
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-25								1040	3/4	362	1040	1	362	1040	1	362
CIRCLING								1360	2	677	1400	2 1/4	717	1400	2 1/2	717

NOTES:

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-25 ALL CATS VISIBILITY TO 1 SM.

@ CAT D 800-2 1/4, CAT E 800-2 1/2

CITY AND STATE TOLEDO, OH	ELEVATION: 683 TDZE: 678 AIRPORT NAME: TOLEDO EXPRESS	FACILITY IDENTIFIER: TOL	PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: HI - TACAN RWY 25, AMDT 4B, 04/27/2017	SUP
				AMDT
				DATE 12/25/2003

QUALITY

4

CHECKED

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE <div style="text-align: right;">04/27/2017</div>	
COORDINATED WITH: <div style="display: flex; justify-content: space-around; margin-top: 5px;"> ATA <input type="checkbox"/> AAT <input type="checkbox"/> ALPA <input type="checkbox"/> APA <input type="checkbox"/> AOPA <input type="checkbox"/> NBAA <input type="checkbox"/> OTHER (specify) _____ </div>			
FLIGHT CHECKED BY			
NAME: PENDING		<i>Digitally signed by</i> DONALD H LANIER	DATE:
DEVELOPED BY		Jan 30, 2017	
NAME: SEAN BARBEE		<i>Digitally signed by</i> SEAN BARBEE <small>Dec 29, 2016</small>	DATE: 12/21/2016
APPROVED BY			
NAME:		FIFO	DATE:
<i>Digitally signed by</i> DONALD H LANIER		FIFO AJV-5431	DATE:
CHANGES:			
RECOMMENDED BY: <u>Jan 30, 2017</u> PATRICK MULQUEEN, MANAGER, AJV-5430			
<ol style="list-style-type: none"> 1. ADDED "CHART ARRIVAL HOLDING AT MYANN: HOLD S, LT, 350.00 INBOUND, 15,000" TO ADDITIONAL FLIGHT DATA. 2. ADDED "CHART: ASR" TO ADDITIONAL FLIGHT DATA. 3. CHANGED TERMINAL FEEDER ROUTE FROM FWA VORTAC TO MYANN COURSE FROM 079.14 TO 085.14. 4. CARLETON (CRL) VORTAC NAVAID TYPE CHANGED FROM VORTAC TO VOR/DME; UPDATED DISTANCE FROM CRL VORTAC TO MYANN CHANGED FROM 52.18 TO 52.17. 5. UPDATED TERMINAL ROUTE FROM ROD VORTAC TO MYANN FROM 023.91 TO 022.91. 6. ADDED TOL R-170 TO TERMINAL ROUTE FOR ARC INITIAL. 7. ADDED FIX NAMES TO UNNAMED DME FIXES; TOL R-080/15 DME (IF) NAMED IKASE; TOL R-080/6 DME (FAF) NAMED ORUYI; TOL R-080/2.5 DME NAMED ZARIP; TOL R-080/1 DME (MAP) NAMED IXOQY. 8. CHANGED CIRCLING MDA AND VISIBILITY FOR CAT C FROM 1180-1 1/2 TO 1360-2 AND CAT D FROM 1240-2 TO 1400-2 1/4; CHART CIRCLING ICON; STRAIGHT-IN MINIMUMS AND NO-LIGHT ADJUSTMENTS LEFT ALONE AS APPLICATION OF NEW CRITERIA WOULD RESULT IN SLIGHTLY LOWER VISIBILITIES. INOPERATIVE TABLE NOTE NOT APPLIED FOR THE SAME REASON. 9. CHANGED FAS OBSTACLE FROM 784 TREES 413635/0834724 TO 786 TOWER 413529N/0834654W. 10. CHANGED DIST FAF TO THLD FROM 5.80 NM TO 5.83 NM. 11. ADDED ALTERNATE MINIMUMS. 			
REASONS:			
<ol style="list-style-type: none"> 1. MYANN ARRIVAL HOLDING, TO INCLUDE CONTROLLING OBSTACLE AND HIGH TERRAIN, PREVIOUSLY FLIGHT CHECKED SATISFACTORILY ON ALL KTOL HI PROCEDURES; SEGMENT DOCUMENTED ON BOTH HI-ILS OR LOC RWY 25 AND HI-ILS OR LOC RWY 7. 2. IAW 8260.19G, PARA 8-6-8L ENTRY IS REQUIRED WHEN ASR AND/OR PAR APPROACHES ARE PUBLISHED FOR THE AIRPORT. 3. FORT WAYNE (FWA) VORTAC ROTATED FROM 0E/1965 TO 6W/2020. 4. TACR PROGRAM; NAVAID SURVEY DATA UPDATED AFTER THIS PROCEDURE PUBLISHED. 5. ROD VORTAC MAGVAR UPDATED IN 1995. 6. RADIAL ALREADY PUBLISHED ON PROCEDURE. 7. FIX NAMES ADDED TO UNNAMED DME FIXES IAW 8260.19G, PARA 2-10-5. 8. CIRCLING MINIMUMS CHANGED DUE TO THE APPLICATION OF LARGER OBSTACLE IDENTIFICATION SURFACES IAW 8260.3B, PARA 260A AND VISIBILITY VALUES DETERMINED USING 8260.3B, TABLE 3-10; NEW CIRCLING AREAS PREVIOUSLY APPLIED AND PUBLISHED ON KTOL ILS OR LOC RWY 25, AMDT 8. 9. NEW OBSTACLE SURVEY DATA. 10. GEODETICALLY CALCULATED DISTANCE FROM FAF TO THLD. EXISTING FORM IS A TRANSCRIBED FORM. 11. IAW 8260.19G, PARA 8-6-4 AND 82260-3B, VOL. 1, CHAPTER 3 TOL TACAN IS IDENTIFIED AS A CAT 1 FACILITY THAT IS MONITORED 24 HOURS/DAY. 			
EFFECTIVE CONCURRENT WITH: HI-ILS OR LOC RWY 25, AMDT 5A			



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	CRL VOR/DME	MYANN/TOL 25.00	1. TOWER (39-001418)	413922.00N/0832645.00W	1848 (5D)	1000	AT15152	18000	
		DME	2. TERRAIN	411057.00N/0833412.00W	749 (700)		AS1500	2200	
FEEDER	FWA VORTAC	MYANN/TOL 25.00	3. TOWER (39-000616)	410812.00N/0835424.40W	1817 (5D)	1000	AT15183	18000	
		DME	4. TERRAIN	405624.00N/0850003.00W	1817 (1800)		AS1500	3300	
FEEDER	ROD VORTAC	MYANN/TOL 25.00	5. TOWER (39-000804)	401821.00N/0840654.00W	1529 (5D)	1000	AT15471	18000	
		DME	6. TERRAIN	403524.00N/0835018.00W	1109 (1100)		AS1500	2600	
INITIAL	MYANN/TOL 25.00	POUDR/TOL 15.00	7. WINDMILL	412227.50N/0834427.43W	1068 (4D)	1000	AT7932	10000	
	DME	DME	(39-004119)						
			8. TERRAIN	411136.00N/0834042.00W	735 (700)		AS1500	2200	
INITIAL: ARC	POUDR/TOL 15.00	IKASE/TOL 15.00	1. TOWER (39-001418)	413922.00N/0832645.00W	1848 (5D)	1000	AT1152	4000	
	DME CCW	DME	9. TERRAIN	411851.00N/0833845.00W	726 (700)		AS1500	2200	
INTERMEDIATE	IKASE/TOL 15.00	ORUYI/TOL 6.00	10. TOWER (39-002110)	413912.00N/0833253.00W	1058 (5D)	500	AT842	2400	
	DME	DME	11. TERRAIN	413639.00N/0833024.00W	673 (700)		AS1500	2200	
FINAL	ORUYI/TOL 6.00	ZARIP/TOL 2.50	12. TOWER (39-000799)	413732.00N/0834241.00W	938 (4D)	250	AC50	1240	
	DME	DME							
2. PROCEDURE TURN									
3. MISSED APPROACH	MAP: 5.00 NM AFTER	POUDR/15.00 DME				ASC		3000	
	ORUYI/TOL 6.00		7. WINDMILL (39-004119)	412227.50N/0834427.43W	1068 (4D)	1000		2100	
	ELEV: 790		14. TERRAIN	413651.00N/0840109.00W	758 (800)		AS1500	2300	
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED 350							
CATEGORY B	1.5 NM	450							
CATEGORY C	1.7 NM	450	677	15. TOWER (39-000157)	413602.00N/0835302.00W	998 (4D)	AC50	1360	
CATEGORY D	2.3 NM	550	717	16. TOWER (39-003822)	413603.54N/0835426.34W	1049 (5D)	AC50	1400	
CATEGORY E	4.5 NM	550	717	16. TOWER (39-003822)	413603.54N/0835426.34W	1049 (5D)	AC50	1400	
5. MINIMUM SAFE ALTITUDES									
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (39-000350)	082/20.4	2016 (5D)	3100					
CITY AND STATE	ELEVATION: 683	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION					
TOLEDO, OH	AIRPORT NAME: TOLEDO EXPRESS	TOL TACAN	HI - TACAN RWY 25, AMDT 4B, 04/27/2017						

QUALITY
AGL
CHECKED

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: VDP NOT ESTABLISHED - VDP LESS THAN 0.5 NM BEFORE MAP. PRECIPITOUS TERRAIN EVALUATION COMPLETED. NO ADDITIONAL AIRSPACE REQUIRED. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT C: 2.88NM CAT D: 3.76NM CAT E: 4.70NM RASS PRESSURE PATTERNS SAME KTOL 683, KDUH 669.0 RA = 28.0. KTOL ASOS-3 AND KDUH AWOS-3 ON WMSCR. VGSI DATA: 3.00/68.7. FOR CONTINGENCY PURPOSES: NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOLEDO SUBURBAN ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET, S-25 VISIBILITY ALL CATS 1/8 SM, AND CIRCLING CATS D AND E VISIBILITY 1/2 SM. NOTE: FOR INOPERATIVE ALS WHEN USING TOLEDO SUBURBAN ALTIMETER SETTING, INCREASE S-7 CAT E VISIBILITY TO 1 1/8 SM.													
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING															
TOL TOWER TOL APP CON				N W S		OTHER: ASOS		SOURCE:KTOL / KDUH															
								DISTANCE: 0 / 11.25															
								HOURS REMOTE OPERATION: 24 / 24															
SATISFACTORY ON:																							
X	V H F	X	U H F		H F	LOCATION: KTOL														ADJUSTMENT: 0 / 28			
4. MONITOR STATUS		PRIMARY NAVAID: TOL TACAN																					
		MONITOR POINT: MOCC																					
		HRS		CAT 1		24																	
		OPTN:		CAT 3																			
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 07																			
				(S) SALS																			
		X		MALSR 25																			
		X		HIRL 07, 25																			
		X		MIRL 16, 34																			
		X		REIL 16, 34																			
		X		TDZ 07																			
		X		C/L 07, 25																			
		X		OTHER (SPECIFY) PAPI-4L 16, 25, 34																			
6. RUNWAY MARKINGS		BASIC																					
		ALL WEATHER PIR-G 07, 25																					
		INSTRUMENT NPI-F 16, 34																					
7. RUNWAY VISUAL RANGE		APPROACH 07, 25																					
		MIDFIELD																					
		ROLL OUT 07, 25																					
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:																	
		DISTANCE FROM RWY:				ELEV GP ANTENNA:																	
						THRESHOLD CROSSING HEIGHT:																	
9. FINAL APPROACH COURSE AIMING					RUNWAY THRESHOLD 956				FT. FROM THRESHOLD														
			X		ON CENTERLINE				FT. FROM CENTERLINE														
10. WAIVERS: NONE																							
PART D - PREPARED BY: SEAN BARBEE										DATE: 12/21/2016													
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5431													



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD	
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	PART - A OBSTRUCTION DATA
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PART B - SUPPLEMENTAL DATA										PART C - REMARKS:	
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE			3. ALTIMETER SETTING				
SATISFACTORY ON:					N W S	OTHER:		SOURCE:			
					F A A			DISTANCE:			
					A / C			HOURS REMOTE OPERATION:			
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:		
4. MONITOR STATUS		PRIMARY NAVAID:									
		MONITOR POINT:									
		HRS	CAT 1								
		OPTN:	CAT 3								
5. APPROACH & RUNWAY LIGHTING			ALS								
			(S) SALS								
			MALS								
			HIRL								
			MIRL								
			REIL								
			TDZ								
			C/LINE								
6. RUNWAY MARKINGS			OTHER (SPECIFY)								
			BASIC								
			ALL WEATHER								
7. RUNWAY VISUAL RANGE			INSTRUMENT								
			APPROACH								
			MIDFIELD								
8. GLIDE PATH			ROLL OUT								
			GP ANGLE:								
			ELEV RWY THRESHOLD:								
9. FINAL APPROACH COURSE AIMING			DISTANCE FROM RWY:								
			ELEV GP ANTENNA:								
			THRESHOLD CROSSING HEIGHT:								
10. WAIVERS:			RUNWAY THRESHOLD								
			FT. FROM THRESHOLD								
PART D - PREPARED BY:			ON CENTERLINE								
			FT. FROM CENTERLINE								
TITLE:											
OFFICE:											