

<b>UNITED STATES AIR FORCE</b> <b>ILS OR LOC STANDARD INSTRUMENT APPROACH PROCEDURE</b>										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		ILS: DA LOC: 4.40 NM AFTER TOPHR LOM/TOL 5.99 DME OR AT TOL 1.59 DME  CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3000 ON TOL TACAN R-170 TO POU DR/15.00 DME AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD S, LT, 350.00 INBOUND. CHART FAS OBST: 785 TREE 413438N/0835048W CHART: ASR. CHART TOL R-170 AT POU DR. CHART CIRCLING ICON. CHART ARRIVAL HOLDING AT MYANN: HOLD S, LT, 350.00 INBOUND, 15,000.								
CRL VOR/DME		MYANN/TOL 25.00 DME			192.95 / 52.17				18000										
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 CW (IAF)		GUYEB/TOL 15.00 DME			15.00 DME ARC (TOL LR-244)				4000										
GUYEB/TOL 15.00 DME (IF)		TOPHR LOM/TOL 5.99 DME			072.16 / 9.01 (I-TOL)				2200										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT MYANN/TOL 25.00 DME 3. FAC: 072.16 FAF: TOPHR LOM/TOL 5.99 DME DIST FAF TO MAP: 4.40 THLD: 4.40 4. MIN. ALT: MYANN 15000, POU DR 10000, GUYEB 4000, TOPHR LOM 2200 5. DIST TO THLD FROM OM: 4.40 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1125 6. MIN GS INCPT: 2200 GS ALT AT: - OM: 2162 MM: - IM: - 7. GS ANGLE: 3.00 TCH: 59.2 8. MSA FROM: ESA W/IN 100 NM 4000TOL TACAN 3100										MAG VAR: 5W EPOCH YEAR: 1990									
MINIMUMS																			
TAKEOFF: NA STANDARD							ALTERNATE:		X										
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			
S-ILS 07								883	1800	200	883	1800	200	883	1800	200			
S-LOC 07								1080	3500	397	1080	3500	397	1080	3500	397			
CIRCLING								1300	1 3/4	617	1400	2 1/4	717	1400	2 1/2	717			
NOTES: CHART PLANVIEW NOTE: DME OR RADAR REQUIRED. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 7 CAT E VISIBILITY TO RVR 4000 AND S-LOC 7 CAT E VISIBILITY TO RVR 6000.																			
CITY AND STATE TOLEDO, OH		ELEVATION: 683 TDZE: 683 AIRPORT NAME: TOLEDO EXPRESS			FACILITY IDENTIFIER: I-TOL		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: HI - ILS OR LOC RWY 7, AMDT 8A, 04/27/2017						SUP: <span style="color: green; font-weight: bold;">QUALITY 4</span> AMDT: <span style="color: green; font-weight: bold;">CHECKED 8</span> DATED 03/12/2009						

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input checked="" type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>04/27/2017</div>	
COORDINATED WITH: <div><div>ATA<div></div></div><div>AAT<div></div></div><div>ALPA<div></div></div><div>APA<div></div></div><div>AOPA<div></div></div><div>NBAA<div></div></div><div>OTHER (specify)<div><input checked="" type="checkbox"/> ZOB ARTCC, TOL APP CON, TOL ATCT, AMGR.</div></div></div>					
FLIGHT CHECKED BY					
NAME: <div>PENDING</div>		Digitally signed by DONALD H LANIER Jan 30, 2017		FIFO FIOG	DATE:
DEVELOPED BY					
NAME: <div>SEAN BARBEE</div>		Digitally signed by SEAN BARBEE Dec 28, 2016		FIFO AJV-5431	DATE: 12/22/2016
ENDORSED BY					
NAME:		Digitally signed by		FIFO	DATE:
CHANGES: DONALD H LANIER RECOMMENDED BY: Jan 30, 2017 PATRICK MULQUEEN, MANAGER, AJV-5430 1. CHANGED TERMINAL FEEDER ROUTE FROM FWA VORTAC TO MYANN COURSE FROM 079.14 TO 085.14. 2. CHANGED S-ILS CAT E VISIBILITY FROM RVR 2400 TO RVR 1800; CHANGED S-LOC CAT C VISIBILITY FROM RVR 2400, CAT D FROM RVR 4000, AND CAT E FROM RVR 5000 TO RVR 3500; CHANGED CIRCLING CAT C MDA-VIS HAA FROM 1180-1 1/2 397 TO 1300-1 3/4 617 AND CAT D FROM 1240-2 557 TO 1400-2 1/4 717; CHARTED CIRCLING ICON. 3. CARLETON (CRL) VORTAC NAVAID TYPE CHANGED FROM VORTAC TO VOR/DME. 4. UPDATED INOPERATIVE ALS NOTES FROM "**WHEN ALS INOP INCREASE CAT E RVR TO 40¿ AND ¿**WHEN ALS INOP INCREASE CAT E VIS TO 1 1/2 MILES¿ TO ¿FOR INOPERATIVE ALS, INCREASE S-ILS 7 CAT E VISIBILITY TO RVR 4000 AND S-LOC 7 CAT E VISIBILITY TO RVR 6000¿. 5. CHANGED TERMINAL ROUTE DISTANCE FROM GUYEB/TOL 15.00 DME (IF) TO TOPHR LOM/TOL 5.99 DME FROM 8.89 NM TO 9.01 NM. 6. DELETED ALTERNATE MINIMUMS.					
REASONS: 1. FORT WAYNE (FWA) VORTAC ROTATED FROM 0E/1965 TO 6W/2020. 2. S-ILS 7 AND S-LOC 7 CAT E VISIBILITY VALUES CHANGED IAW 8260.3B, TABLE 3.5A; 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. 3. TACR PROGRAM. 4. ALS INOPERATIVE NOTE UPDATED TO ACCOUNT FOR CHANGES TO VISIBILITY VALUES OUTLINED IN CHANGE #2, CHECKED AGAINST INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE FROM IFR FLIP, AND NOTE FORMATTED IAW 8260.19G, PARA 8-6-5M(3D & E). 5. CORRECT DOCUMENTATION ERROR. 6. I-TOL IS NOT MONITORED FULL TIME, 24 HOURS A DAY. <div>EFFECTIVE CONCURRENT WITH: HI-ILS OR LOC RWY 25</div> <div>QUALITY 4 CHECKED</div>					

## 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	850 (900)		AS1500	2400		
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. TOWER (39-000129)	411339.00N/0833831.00W	1017 (5D)	1000	AT7983	10000		
	DME	DME	8. TERRAIN	411136.00N/0834042.00W	735 (700)	1000	AS1500	3200		
INITIAL: ARC	POUDR/TOL 15.00	GUYEB/TOL 15.00	9. TOWER (39-001097)	413215.00N/0840754.00W	1073 (5D)	1000	AT1927	4000		
	DME CW	DME	10. TERRAIN	413214.00N/0840910.00W	778 (800)		AS1500	2300		
INTERMEDIATE	GUYEB/TOL 15.00	TOPHR LOM/TOL	9. TOWER (39-001097)	413215.00N/0840754.00W	1073 (5D)	500	AT627	2200		
	DME	5.99 DME	11. TERRAIN	413254.00N/0840806.00W	755 (800)		AS1000	1800		
FINAL: ILS	GP INTCP	DA				ASC		883/200		
2. PROCEDURE TURN										
3. MISSED APPROACH	MAP:	4.40 NM AFTER	POUDR/TOL 15.00			ASC		3000		
		TOPHR LOM/TOL	DME	13. TOWER (39-000655)	413157.00N/0833536.00W	1148 (5D)	1000	2200		
	ELEV:	713/830	14. TERRAIN	412057.00N/0833942.00W	719 (700)		AS1500	2200		
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
CATEGORY B	1.5 NM		450							
CATEGORY C	1.7 NM		450		617	15. TOWER (39-000157)	413602.00N/0835302.00W	998 (4D) 300 1300		
CATEGORY D	2.3 NM		550		717	16. TOWER (39-003822)	413603.54N/0835426.34W	1049 (5D) 300 AC50 1400		
CATEGORY E	4.5 NM		550		717	16. TOWER (39-003822)	413603.54N/0835426.34W	1049 (5D) 300 AC50 1400		
5. MINIMUM SAFE ALTITUDES										
PRIMARY NAVAID: TOL TACAN										
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL) M S A		
360-360	TOWER (39-	103/94.9	2049 (4D)	4000						
CITY AND STATE		ELEVATION: 683		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION 4 AGL CHECKED		
TOLEDO, OH		AIRPORT NAME:		I-TOL		HI - ILS OR LOC RWY 7, AMDT 8A,				
		TOLEDO EXPRESS				04/27/2017				

PART B - SUPPLEMENTAL DATA										<div>PART C - REMARKS:</div> <div>VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.</div> <div>PRECIPITOUS TERRAIN EVALUATION COMPLETED.</div> <div>NO ADDITIONAL AIRSPACE REQUIRED.</div> <div>ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.</div> <div>CAT C: 2.88NM</div> <div>CAT D: 3.76NM</div> <div>CAT E: 4.70NM</div> <div>RASS PRESSURE PATTERNS SAME</div> <div>KTOL 683, KDUH 669</div> <div>RA = 28.0.</div> <div>KTOL ASOS-3 AND KDUH AWOS-3 ON WMSCR.</div> <div>BLOCK 4: SECONDARY NAVAID: TOL TACAN, MONITOR POINT: MOCC, HRS REMOTE OPTN: 24.</div> <div>FOR CONTINGENCY PURPOSES:</div> <div>NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOLEDO SUBURBAN ALTIMETER SETTING AND INCREASE DA TO 911; INCREASE ALL MDA 40 FEET AND VISIBILITY ALL CATS 1/8 SM.</div> <div>NOTE: FOR INOPERATIVE ALS WHEN USING TOLEDO SUBURBAN ALTIMETER SETTING, INCREASE S-ILS 7 CAT E VISIBILITY TO RVR 4000 AND S-LOC 7 CAT E VISIBILITY TO 1 1/4 SM.</div> <div>XP45=RAISED TO CURRENT PUBLISHED MINIMUM</div>																			
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																					
TOL APP CON TOL TOWER						N W S		OTHER: ASOS												SOURCE:KTOL / KDUH									
						F A A														DISTANCE: 0 / 11.25									
						A / C														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: I-TOL																											
		MONITOR POINT: KTOL ATCT																											
		HRS OPTN:		CAT 1		SEE A/FD																							
				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: 3.00								ELEV RWY THRESHOLD:682.5																	
				DISTANCE FROM RWY: 1125								ELEV GP ANTENNA: 677.6																	
												THRESHOLD CROSSING HEIGHT:59.2																	
9. FINAL APPROACH COURSE AIMING						X		RUNWAY THRESHOLD										FT. FROM THRESHOLD											
						X		ON CENTERLINE										FT. FROM CENTERLINE											
10. WAIVERS: NONE																													
PART D - PREPARED BY:												DATE:																	
SEAN BARBEE												12/22/2016																	
TITLE:												OFFICE:																	
AERONAUTICAL INFORMATION SPECIALIST												AJV-5431																	



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

[illegible]

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		BASIC									
		ALL WEATHER									
		INSTRUMENT									
7. RUNWAY VISUAL RANGE		APPROACH									
		MIDFIELD									
		ROLL OUT									
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:					
		DISTANCE FROM RWY:				ELEV GP ANTENNA:					
						THRESHOLD CROSSING HEIGHT:					
9. FINAL APPROACH COURSE AIMING				RUNWAY THRESHOLD					FT. FROM THRESHOLD		
				ON CENTERLINE					FT. FROM CENTERLINE		
10. WAIVERS:											
PART D - PREPARED BY:										DATE:	
TITLE:										OFFICE:	