

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							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									
VWV VOR/DME			TOPHR LOM			297.75 / 14.13			2300		CLIMB TO 2500 THEN RIGHT TURN DIRECT VWV VOR/DME AND HOLD.  ALTERNATE MA (DO NOT CHART): CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 3000 DIRECT TOPHR LOM AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD SE, RT, 320.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W TOPHR LOM, LT, 072.00 INBOUND. CHART FAS OBST: 785 TREE 413438N/0835048W. CHART ASR CHART CIRCLING ICON. CHART (CFD TT) AT 413055.08N/0840238.87W									
MCLUR INT			TOPHR LOM			023.65 / 14.70			2300											
1. PT <u>R</u> SIDE OF COURSE <u>252.16</u> OUTBOUND <u>2300</u> FT WITHIN <u>15</u> MILES OF <u>TOPHR LOM</u> (IAF)										MAG VAR: 5W EPOCH YEAR: 1990										
2.																				
3. FAC: <u>072.16</u> FAF: <u>TOPHR LOM</u> DIST FAF TO MAP: <u>4.40</u> THLD: <u>4.40</u>																				
4. MIN. ALT: <u>TOPHR LOM 2200</u>																				
5. DIST TO THLD FROM OM: <u>4.40</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1125</u>																				
6. MIN GS INCPT: <u>2200</u> GS ALT AT: <u>-</u> OM: <u>2162</u> MM: <u>-</u> IM: <u>-</u>																				
7. GS ANGLE: <u>3.00</u> TCH: <u>59.2</u>																				
8. MSA FROM: <u>TOPHR LOM 3100</u>																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD		LOC: 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					
S-ILS 07	883	1800	200	883	1800	200	883	1800	200	883	1800	200	883	1800	200					
S-LOC 07	1080	2400	397	1080	2400	397	1080	2400	397	1080	4000	397	1080	5000	397					
CIRCLING	1200	1	517	1200	1	517	1360	2	677	1400	2 1/4	717	1400	2 1/2	717					
NOTES: CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 7 CAT E VISIBILITY TO RVR 4000, S-LOC 7 CAT E VISIBILITY TO RVR 6000. @ CAT D 800-2 1/4, CAT E 800-2 1/2 EQUIPMENT REQUIREMENTS NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY, ADF OR RADAR REQUIRED.																				
CITY AND STATE TOLEDO, OH			ELEVATION: 683 TDZE: 683 AIRPORT NAME: TOLEDO EXPRESS				FACILITY IDENTIFIER: I-TOL		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 28A				SUP: AMDT: 28 DATED 03/12/2009							

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
				ROUTINE	
COORDINATED WITH:					
A4A <div><input type="checkbox"/></div>	ALPA <div><input checked="" type="checkbox"/></div>	AOPA <div><input checked="" type="checkbox"/></div>	APA <div><input checked="" type="checkbox"/></div>	HAI <div><input type="checkbox"/></div>	NBAA <div><input checked="" type="checkbox"/></div>
OTHER (specify)				<div><input checked="" type="checkbox"/> ZOB, TOL ATCT, AMGR</div>	
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY <i>Digitally signed by</i>					
NAME:				FIFO	DATE:
IVAN BLANCO				AJV-5432	02/15/2018
APPROVED BY					
NAME:				FIFO	DATE:
PATRICK MULQUEEN				AJV-5430	
CHANGES:					
<div>1. CIRCLING CAT A/B MDA/HAA CHANGED FROM 1180/497 TO 1200/517, CAT C FROM 1180/497 TO 1360/677, VISIBILITY CHANGED FROM 1 1/2 TO 2, CAT D CHANGED FROM 1240/557 TO 1400/717, VISIBILITY FROM 2 TO 2 1/4.</div> <div>2. ADDED TO ADDITONAL FLIGHT DATA: CHART CIRCLING ICON.</div> <div>3. CHANGED CHART PLANVIEW NOTE: ADF OR RADAR REQUIRED TO EQUIPMENT REQUIREMENTS NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY, ADF OR RADAR REQUIRED</div> <div>4. CHANGED CHART NOTE: FOR INOPERATIVE ALSF, INCREASE S-ILS 7 CAT E VISIBILITY TO 3/4 MILE, S-LOC 7 CAT E VISIBILITY TO 1 1/2 MILE TO: FOR INOPERATIVE ALS, INCREASE S-ILS 7 CAT E VISIBILITY TO RVR 4000, S-LOC 7 CAT E VISIBILITY TO RVR 6000.</div> <div>5. CHANGED ILS ALTERNATE MINIMUMS FROM # CAT E 800-2 1/2 TO STANDARD AND ADDED LOC ALTERNATE MINIMUMS @ CAT D 800-2 1/4, CAT E 800-2 1/2.</div> <div>6. ADDED CNF (CFD TT) AT 413055.08N/0840238.87W.</div>					
REASONS:					
<div>1-2. APPLIED NEW CIRCLING AREA TO MATCH OTHER SIAPS AT ARPT AND CLEAR FDC 7/5841.</div> <div>3. IAW 8260-19H, 8-6-9.G.(2) AND 8-6-8.A.(2).(B) DUE TO VVW VOR/DME AIRWAYS CANCELLATION.</div> <div>4. NEW INOP TABLE RESULT.</div> <div>5. IAW 8260.3C, CHAPTER 3. SECTION 3-4.</div> <div>6. ARINC REQUIREMENT.</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			VVV VOR/DME		TOPHR LOM		1. TOWER (39-001311)		412728.00N/0833933.00W		1051 (5D)		1000		AT249		2300		
							2. TERRAIN		413602.00N/0835302.00W		696 (700)				AS1500		2200		
FEEDER			MCLUR INT		TOPHR LOM		3. TOWER (39-003740)		413049.00N/0835100.00W		1026 (4D)		1000		AT274		2300		
							4. TERRAIN		413427.00N/0840018.00W		726 (700)				AS1500		2200		
INTERMEDIATE: PT			(CFDTT) (IF/IAF)		TOPHR LOM		5. TOWER (39-000579)		412453.00N/0841051.00W		1093 (5D)		500		AT607		2200		
							6. TERRAIN		413136.00N/0841048.00W		775 (800)				AS1000		1800		
FINAL: ILS			GP INTCP		RW07								ASC				883/200		
FINAL: LOC			TOPHR LOM		4.40 NM AFTER TOPHR LOM		7. TREE (KTOL0034)		413437.56N/0835047.95W		785 (1A)		250		XP45		1080		
2. PROCEDURE TURN			TOPHR LOM		15 NM		8. TOWER (39-001692)		413329.00N/0841108.00W		1247 (5D)		1000				2300		
							9. TERRAIN		413818.00N/0841012.00W		814 (800)				AS1500		2300		
3. MISSED APPROACH		MAP:		DA / 4.40 NM		WATERVILLE						ASC				2500			
				AFTER TOPHR LOM		VOR/DME		10. TOWER (39-000655)		413157.00N/0833536.00W		1149 (5D)		1000		2200			
		ELEV:		713/830				11. TERRAIN		413603.00N/0834818.00W		699 (700)				AS1500			
4. CIRCLING AREA		DISTANCE				HT. ABV. ARPT.													
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	517	14. TOWER (39-000149)		413333.87N/0834926.89W		884 (1A)		300			1200		
CATEGORY B		1.5 NM			450		517	14. TOWER (39-000149)		413333.87N/0834926.89W		884 (1A)		300			1200		
CATEGORY C		1.7 NM			450		677	15. TOWER (39-000157)		413602.65N/0835301.90W		981 (2C)		300	XP60		1360		
CATEGORY D		2.3 NM			550		717	16. TOWER (39-003822)		413603.21N/0835426.40W		1057 (2C)		300	XP43		1400		
CATEGORY E		4.5 NM			550		717	17. TOWER (39-003822)		413603.21N/0835426.40W		1057 (2C)		300	XP43		1400		
5. MINIMUM SAFE ALTITUDES																			
PRIMARY NAVAID: TOPHR LOM																			
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		TWR (39-000350)		083/20.0		2016 (5D)		3100											
CITY AND STATE				ELEVATION: 683				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION			
TOLEDO, OH				AIRPORT NAME: TOLEDO EXPRESS				I-TOL				ILS OR LOC RWY 7, AMDT 28A				AGL			

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>S-LOC 7 ALT MINS NA, TO LOM UNMONITORED.</div> <div>BLOCK 4: MONITOR STATUS: SECONDARY NAVAID: TO LOM, HRS REMOTE OPERATION: CAT 3 24.</div> <div>ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.</div> <div>CAT A: 1.30NM</div> <div>CAT B: 1.83NM</div> <div>CAT C: 2.88NM</div> <div>CAT D: 3.76NM</div> <div>CAT E: 4.70NM</div> <div>NO ADDITIONAL AIRSPACE REQUIRED.</div> <div>RASS PRESSURE PATTERNS THE SAME</div> <div>KTOL 683.3, KDUH 669.0</div> <div>RA = 27.90.</div> <div>4D ACCURACY OF OBSTACLE #3 AND OBST #12 VERIFIED BY PREVIOUS FLIGHT CHECK.</div> <div>PER FPT - THE FAA (TECH OPS) MAINTAINS A BACKUP STAND-ALONE ALTIMETER SOURCE FOR THE AIRPORT (TRACON). BECAUSE OF THE GUARD MISSION, ALL PARTIES CONCERNED REQUEST THAT KDUH BE LISTED AS THE REMOTE ALTIMETER SOURCE FOR CONTINGENCY PURPOSES.</div> <div>NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LAMBERTVILLE/TOLEDO SUBURBAN ALTIMETER SETTING AND INCREASE ALL DA 28 FEET AND ALL MDA 40 FEET, S-LOC 7 CAT C VISIBILITY TO RVR 4000, CIRCLING CAT D VISIBILITY TO 2 1/2 SM, CIRCLING CAT E VISIBILITY TO 2 3/4 SM.</div> <div>FOR INOP ALS WHEN USING LAMBERTVILLE ALTIMETER SETTING, INCREASE S-ILS 7 VISIBILITY TO RVR 4000 ALL CATS, S-LOC 7 CAT A/B VISIBILITY TO RVR 5500, CAT C/D/E VISIBILITY TO 1 1/4 SM.</div> <div>CIRCLING MINIMUMS UPDATED TO MATCH ILS OR LOC RWY 25, AMDT 8. OBSTACLE ID'S ARE SAME, OBSTACLE 39-000149 HEIGHT CHANGED FROM 866 TO 884 MSL, OBS 39-000157 HEIGHT CHANGED FROM 998 TO 981 MSL, OBS 39-003822 CHANGED FROM 1049 TO 1057 MSL.</div> <div>15-17. XP TO MATCH OTHER SIAPS AT ARPT</div> <div>XP45=RAISED TO CURRENT PUBLISHED MINIMUMS</div> <div>MISSED APPROACH OBSTACLES CONT.</div> <div>ALTERNATE:</div> <div>12. TOWER (39-003822) 413603.00N/0835426.00W 1049 (4D) 1000 AT900 3000</div> <div>13. TERRAIN 413824.00N/0835954.00W 794 (800) AS1500 2300</div> <div><div>QUALITY</div><div>19</div><div>CHECKED</div></div>																			
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																					
ZOB ARTCC TOL TOWER TOL APP CON						N W S		OTHER: ASOS												SOURCE:KTOL / KDUH									
						F A A														DISTANCE: 0 / 11.25									
						A / C														HOURS REMOTE OPERATION: 24/YES / 24/YES									
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: TOL ATCT																											
		HRS OPTN:		CAT 1		24																							
				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:																			
IVAN BLANCO										02/15/2018																			
TITLE:										OFFICE:																			
AERONAUTICAL INFORMATION SPECIALIST										AJV-5432																			