

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: RW25 CLIMB TO 3000 DIRECT ATVIY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 072.02 INBOUND. CHART FAS OBST: 786 TOWER 413529N/0834654W. DISTANCE TO THLD FROM 200 HAT: 0.51 NM. CHART VDP AT 1.01 NM TO RW25* *LNAV ONLY. WAAS CHANNEL # 48899 REFERENCE PATH ID: W25A CHART CIRCLING ICON. CHART: ASR LTP HAE: 167.4 M								
CRL VOR/DME	VELXE (TF) (FB) (RNP 2.00)			205.20 / 19.55			3000										
VWV VOR/DME	SEFOJ (TF) (FB) (RNP 2.00)			037.61 / 9.73			3000										
VELXE (IAF)	AKEPE (NOPT) (TF) (FB) (RNP 1.00)			162.30 / 5.00			3000										
SEFOJ (IAF)	AKEPE (NOPT) (TF) (FB) (RNP 1.00)			342.36 / 5.00			3000										
AKEPE (IF/IAF) (SEE FORM 8260-10)	VUGCO (TF) (FB) (RNP 1.00)			252.33 / 6.01			2400										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E AKEPE, RT, 252.33 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 252.25 FAF: VUGCO DIST FAF TO MAP: 5.21 THLD: 5.21 4. MIN. ALT: AKEPE 3000, VUGCO 2400, RIYOS/1.80 NM TO RW25 1280* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2400 GS ALT AT: VUGCO 2400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 51.6 34:1 IS CLEAR 8. MSA FROM: RW25 3100										MAG VAR: 5W		EPOCH YEAR: 1990					
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**	878	2400	200	878	2400	200	878	2400	200	878	2400	200	878	2400	200		
LNAV/VNAV DA	1065	5000	387	1065	5000	387	1065	5000	387	1065	5000	387	1065	5000	387		
LNAV MDA	1040	2400	362	1040	2400	362	1040	2400	362	1040	5000	362	1040	5000	362		
CIRCLING	1200	1	517	1200	1	517	1360	2	677	1400	2 1/4	717	1400	2 1/2	717		
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). @ CAT D 800-2 1/4, CAT E 800-2 1/2 CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). *LNAV ONLY (CONTINUED ON PAGE 2)																	
CITY AND STATE TOLEDO, OH		ELEVATION: 683 TDZE: 678 AIRPORT NAME: TOLEDO EXPRESS		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 25, AMDT 2B 1 FEBRUARY 2018						SUP: AMDT: 2A DATED 05/31/2012					

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.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
VUGCO (FAF)	RIYOS/1.80 NM TO RW25 (TF) (FB) (RNP 0.30)	252.25 / 3.44	
RIYOS/1.80 NM TO RW25	RW25 (MAP) (TF) (FO) (RNP 0.30)	252.25 / 1.77	
RW25 (MAP)	878 MSL (CA)	252.25	
878 MSL	ATVIY (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART NOTE: **RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT E VISIBILITY TO 1 1/2 MILE, LNAV CAT D/E VISIBILITY TO RVR 6000.

QUALITY
16
CHECKED

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					AMDT: 2A
					DATED: 05/31/2012

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTOL
RUNWAY	RW25
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W25A
LTP/FTP LATITUDE	413533.6200N
LTP/FTP LONGITUDE	0834741.9665W
LTP/FTP ELLIPSOIDAL HEIGHT	+01674
FPAP LATITUDE	413452.9915N
FPAP LONGITUDE	0834950.5230W
THRESHOLD CROSSING HEIGHT (TCH)	00051.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 C8FB4FA6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02026
FPAP ORTHOMETRIC HEIGHT	+02026

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