

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> TOLEDO EXPRESS	<u>AIRPORT ID</u> KTOL	<u>PROCEDURE NAME</u> ILS Z OR LOC Z RWY 25	<u>ORIGINAL/AMENDMENT</u> 9	<u>CITY</u> TOLEDO	<u>STATE</u> OH	
<u>AIRPORT ELEVATION</u> 683	<u>TDZE</u> 678	<u>SUPERSEDED</u> ILS OR LOC RWY 25	<u>ORIGINAL/AMENDMENT</u> 8A	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> I-BQE	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020	<u>REQUIRED EFFECTIVE DATE</u> 01/30/2020	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
HARBS/12.63 DME	IF/IAF	JEEPZ/7.20 DME					252.18	5.44 (I-BQE)	2400

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: JEVRI/I-BQE 2.41 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 2500 DIRECT WUPTA AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT      **SIDE OF COURSE**      **OUTBOUND**      **FT WITHIN**      **MILES OF (IAF)**
2. HOLD E HARBS, LT, 252.18 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 5000.
3. **FAC:** 252.18      **FAF:** JEEPZ/7.20 DME      **DIST FAF TO MAP:**      **DIST FAF TO THLD:** 5.29
4. **MIN ALT:** HARBS/12.63 DME 3100, JEEPZ/7.20 DME 2400, MIKIE/3.60 DME 1240\*
5. **DIST TO THLD FROM OM:**      **MM:**      **IM:**      **150 HAT:**      **GS ANT:** 901
6. **MIN GS INCPT:** 2400      **GS ALT AT FAF :** JEEPZ/7.20 DME 2400      **OM:**      **MM:**      **IM:**
7. **GP ANGLE:** 3.00      **34:1:**      **20:1:**      **TCH:** 51.7
8. **MSA FROM:** KTOL 3100

**EQUIPMENT REQUIREMENTS NOTES:**

RADAR REQUIRED FOR PROCEDURE ENTRY.  
DME, RNAV 1-GPS REQUIRED.

QUALITY  
31  
CHECKED

**NOTES:**  
CHART PROFILE NOTE: ILS UNUSABLE 0.50 NM INBOUND.  
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 25 CAT E VISIBILITY TO RVR 4000, AND S-LOC 25 CAT E VISIBILITY TO RVR 5000.  
CHART NOTE: \*\*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

**ADDITIONAL FLIGHT DATA:**  
CHART CIRCLING ICON.  
CHART: ASR.  
\*LOC ONLY.  
HOLD SE, RT, 320.00 INBOUND

**MINIMUMS:**  
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

**ALTERNATE:** NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT D 800-2 1/4, CAT E 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 25**	878	2400	200	878	2400	200	878	2400	200	878	2400	200	878	2400	200
S-LOC 25	1000	2400	322	1000	2400	322	1000	2600	322	1000	2600	322	1000	2600	322
CIRCLING	1200	1	517	1200	1	517	1300	1 3/4	617	1360	2 1/4	677	1360	2 1/2	677



CHANGES - REASONS

1. DELETED VVV VOR/DME TO HARBS ROUTE UNDER TERMINAL ROUTES - VVV BEING DECOMMISSIONED.
2. CHANGED HARBS INT/TOL 10.88 DME TO HYMLI OM/INT/TOL 5.11 DME TO HARBS/12.63 DME TO HIMIRI/7.20 DME AND DISTANCE FROM 5.77 TO 5.44 - FAF NO LONGER USING HYMLI OM. DME SOURCE IS NOW I-BQE.
3. CHANGED LOC MISSED APPROACH FROM 4.45 NM AFTER HYMLI OM/INT/TOL 5.11 DME OR AT (CFBLB) TO JEVRI/I-BQE 2.41 DME - NO LONGER USING HYMLI OM. CNF CHANGED TO A NAMED FIX. DME SOURCE IS NOW I-BQE.
4. CHANGED PRIMARY MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 2500 THEN CLIMBING LEFT TURN DIRECT VVV VOR/DME AND HOLD TO CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 2500 DIRECT WUPTA AND HOLD - VVV BEING DECOMMISSIONED.
5. DELETED ALTERNATE MISSED APPROACH - PRIMARY IS NOW AN RNAV MISSED.
6. CHANGED LINE 3 FROM HYMLI OM/INT/TOL 5.11 DME TO JEEPZ/7.20 DME, DIST FAF TO MAP FROM 4.45 TO NO VALUE, DIST FAF TO THLD FROM 4.95 TO 5.29 - NO LONGER USING HYMLI OM OR TIME/DISTANCE TABLE, NEW FAF LOCATION.
7. CHANGED LINE 4 FROM HARBS 3100, HYMLI OM 2400, MIKIE INT/TOL 1.85 DME 1240\* TO JEEPZ/7.20 DME 2400, MIKIE/3.60 DME 1240\* - NO LONGER USING HYMLI OM. DME SOURCE IS NOW I-BQE.
8. DELETED LINE 5 OM VALUE OF 4.95 - OM NO LONGER BEING USED.
9. ADDED LINE 6 GS ALT AT JEEPZ/7.20 DME 2400 AND DELETED OM VALUE OF 2315 - ADDED IAW 8260.19H PARA 8-6-7.F(3); OM NO LONGER BEING USED.
10. CHANGED LINE 8 MSA FROM VVV TO KTOL - VVV BEING DECOMMISSIONED.
11. ADDED DME AND RNAV 1-GPS REQUIRED TO EQUIPMENT REQUIREMENTS NOTES - TIME/DISTANCE TABLE NOT BEING USED, MISSED APPROACH UTILIZES AN RNAV MISSED.
12. DELETED THE FOLLOWING FROM ADDITIONAL FLIGHT DATA BLACK: HOLD SE, RT, 320.00 INBOUND; CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W TOPHR LOM, LT, 072.00 INBOUND; CHART IN PLANVIEW: TOPHR LOM; CHART VVV 12.9 DME AT HARBS; \$ DME FROM TOL TACAN - DELETED ALTERNATE MA; VVV BEING DECOMMISSIONED; DME SOURCE IS NOW I-BQE.
13. CHANGED CHART FAS OBST FROM 764 TREE 413612N/0834629W TO 745 TREE 413554N/0834653W - NEW CONTROLLER.
14. DELETED S-LOC 25 AND CIRCLING LINES OF MINS PRIOR TO MIKIE FIX MINS - MIKIE FIX WILL ALWAYS BE RECEIVED NOW.
15. CHANGED S-LOC 25 LINES OF MINS AFTER MIKIE FIX MINS MDA/HAT FROM 1020/342 TO 1000/322 FOR ALL CATS AND CAT C/D/E VISIBILITY FROM 3000 TO 2600 - NEW CONTROLLING OBSTACLE. NEW VIS CALC.
16. CHANGED CIRCLING LINES OF MINS AFTER MIKIE FIX MINS CMDA/HAA FROM 1360/677 TO 1300/617 FOR CATS C/D/E AND CAT C VISIBILITY FROM 2 TO 1 3/4 - NEW CONTROLLING OBSTACLE. NEW VIS CALC.
17. DELETED NOTE \*1280 WHEN USING LAMBERTVILLE/TOLEDO SUBURBAN ALTIMETER SETTING - STEPDOWN FIX ALLOWS FOR RA ADJUSTMENT.
18. ADDED NA WHEN LOCAL WEATHER NOT AVAILABLE TO ALTERNATE MINIMUMS - IAW MEMO #266 IMPLEMENTATION OF 8260.19H.1.
19. CHANGED PROCEDURE NAME FROM ILS OR LOC RWY 25 TO ILS Z OR LOC Z RWY 25 - IAW 8260.3D PARA 1-6-2.B.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZOB, AMGR, TOL APP CON.

FLIGHT CHECKED BY  
PENDING

OFFICE

DATE

Digitally signed by  
ALLAN WILL  
Oct 18, 2019

DEVELOPED BY  
ALLAN WILL (SHANE FOWLER)

OFFICE  
AJV-A423

DATE  
08/16/2019

Digitally signed by  
ALLAN WILL  
Oct 18, 2019

APPROVED BY  
MARLON ROBINSON

OFFICE  
AJV-A420

DATE

Digitally signed by  
ALLAN WILL  
Oct 18, 2019

TITLE  
MANAGER

