

**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> NEW CASTLE	<u>AIRPORT ID</u> KILG	<u>PROCEDURE NAME</u> ILS OR LOC RWY 1	<u>ORIGINAL/AMENDMENT</u> 24	<u>CITY</u> WILMINGTON	<u>STATE</u> DE
<u>AIRPORT ELEVATION</u> 80	<u>TDZE</u> 76	<u>SUPERSEDED</u> ILS OR LOC RWY 1	<u>ORIGINAL/AMENDMENT</u> 23B	<u>DATED</u> 09/18/2014	<u>MAG VAR</u> 10W <u>EPOCH YEAR</u> 1980
<u>FACILITY</u> I-ILG	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 28 FEBRUARY 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
OOD VORTAC		HADIN LOM					267.27	14.79	2000
ODESA INT		HADIN LOM					071.57	11.35	2000
BAINS		HADIN LOM					113.76	14.35	2000
BLARE/RADAR	IAF	ZEMAR INT	NOPT				300.00 & 015.07	3.85 (HDG) & 2.29 (I-ILG)	1900
ZEMAR INT	IF	HADIN LOM					015.07	6.52 (I-ILG)	1900

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.30 NM AFTER HADIN LOM

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 900 THEN CLIMBING LEFT TURN TO 2000 DIRECT HADIN LOM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. HOLD S HADIN LOM, LT, 015.07 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 7000.
3. **FAC:** 015.07 **FAF:** HADIN LOM **DIST FAF TO MAP:** 5.30 **DIST FAF TO THLD:** 5.30
4. **MIN ALT:** HADIN LOM 1900, CASTL INT 580*
5. **DIST TO THLD FROM OM:** 5.30 **MM:** **IM:** **150 HAT:** **GS ANT:** 1000
6. **MIN GS INCPT:** 1900 **GS ALT AT FAF :** **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 52.7
8. **MSA FROM:** IL LOM 090-270 1800, 270-090 2200



EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED

NOTES:

*LOC ONLY
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OOD VORTAC AIRWAY RADIALS 212 CW 290.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ODESA ON V170-214-433-445 SOUTHWEST BOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BAINS ON V166 WESTBOUND.
 *640 WHEN USING PHILADELPHIA INTL ALTIMETER SETTING.
 WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PHILADELPHIA ALTIMETER SETTING INCREASE ALL DA TO 330 FEET AND ALL MDA 60 FEET, INCREASE S-LOC 01 CATS C/D VISIBILITY TO 1 1/4 SM AND CIRCLING VISIBILITY CAT C TO 1 5/8 SM, CAT D TO 2 1/2 SM; INCREASE CASTL FIX MINIMUMS S-LOC 01 CATS C/D VISIBILITY TO RVR 5000 AND CIRCLING CAT D TO 2 1/2 SM.
 CHART EQUIPMENT REQUIRED NOTE: RADAR REQUIRED TO DEFINE BLARE.
 CHART NOTE: FOR INOPERATIVE ALS INCREASE S-LOC 01 CAT C/D TO 1 3/8 SM FOR CASTL FIX MINIMUMS, INCREASE S-LOC 01 CATS C/D VISIBILITY TO 1 1/8 SM.
 CHART NOTE: FOR INOPERATIVE ALS WHEN USING PHILADELPHIA INTL ALTIMETER SETTING, INCREASE S-LOC 01 CATS C AND D VISIBILITY TO 1 5/8 SM; CASTL FIX MINIMUMS S-LOC 01 CATS C/D TO 1 3/8 SM.
 CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING PHILADELPHIA INTL ALTIMETER SETTING).

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
 CHART FAS OBST: 159 TREE 393839N/0753643W.
 CHART 280 T-L TWR 393641N/0753618W.

MINIMUMS:

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

ALTERNATE: NA ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.

<u>CATEGORY:</u>	A			B			C			D			E		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 01**	276	2400	200	276	2400	200	276	2400	200	276	2400	200			
S-LOC 01	580	2400	504	580	2400	504	580	5500	504	580	5500	504			
CIRCLING	580	1	500	580	1	500	600	1 1/2	520	800	2 1/4	720			
CASTL FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)															
S-LOC 01	480	2400	404	480	2400	404	480	4000	404	480	4000	404			
CIRCLING	540	1	460	560	1	480	600	1 1/2	520	800	2 1/4	720			



CHANGES - REASONS

1. AMENDED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 900 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 220 AND DQO R-271 TO ELUDE/DQO 9.17 DME AND HOLD (NON-DME AIRCRAFT CLIMB TO 900, THEN CLIMBING LEFT TURN TO 2000 DIRECT HADIN LOM AND HOLD) TO CLIMB TO 900 THEN CLIMBING LEFT TURN TO 2000 DIRECT HADIN LOM AND HOLD (ADF REQUIRED) - UPDATING MISSED APPROACH PROCEDURES.
2. ADDED MAX 7000 TO LINE 2 OF FORM 8260-3 - UPDATING TO CURRENT CRITERIA.
3. REMOVED CNF (KAKTE) FROM PROCEDURE - NO LONGER NECESSARY DR LEG.
4. CHANGED CHART NOTE FROM ADF OR DME REQUIRED TO EQUIPMENT REQUIREMENTS NOTE: ADF REQUIRED - DQO VORTAC DME NO LONGER BEING UTILIZED FOR THIS PROCEDURE.
5. UPDATED CIRCLING RADII - UPDATED TO CURRENT CRITERIA.
6. AMENDED COURSE FROM OOD VORTAC TO HADIN LOM FROM 267.25 TO 267.27 - UPDATED GEODETIC CALCULATION.
7. AMENED COURSE AND DISTANCE FROM ODESA TO HADIN LOM FROM 071.59/11.34 TO 071.57/11.35 - UPDATED GEODETIC CALCULATION.
8. AMENDED COURSE FROM BAINS TO HADIN FROM 113.77 TO 113.76 - UPDATED GEODETIC CALCULATION.
9. AMENDED COURSE FROM ZEMAR TO HADIN LOM FROM 015.07 TO 015.05 - UPDATED GEODETIC CALCULATION.
10. AMENDED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PHILADELPHIA INTL ALTIMETER SETTING AND INCREASE ALL DA 54 FT AND ALL MDA 60 FT, AND INCREASE S-LOC 01 CATS C AND D VISIBILITY TO RVR 6000; INCREASE CIRCLING CAT C VISIBILITY 1/8 MILE; INCREASE CASTL FIX MINIMUMS S-LOC 01 CAT C AND D VISIBILITY TO RVR 4000 TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PHILADELPHIA ALTIMETER SETTING INCREASE ALL DA TO 336 FEET AND ALL MDA 60 FEET, INCREASE S-LOC 01 CATS C/D VISIBILITY TO 1 1/4 SM AND CIRCLING VISIBILITY CAT C TO 1 5/8 SM, CAT D TO 2 1/2 SM; INCREASE CASTL FIX MINIMUMS S-LOC 01 CATS C/D VISIBILITY TO RVR 5000 AND CIRCLING CAT D TO 2 1/2 SM. -UPDATED VISIBILITY CALCULATIONS.
11. ADDED CHART NOTE: FOR INOPERATIVE ALS INCREASE S-LOC 01 CAT C/D TO 1 3/8 SM FOR CASTL FIX MINIMUMS, INCREASE S-LOC 01 CATS C/D VISIBILITY TO 1 1/8 SM.. - UPDATED VISIBILITY CALCULATION.
12. AMENDED S-ILS 1 DA FROM 275 TO 276 - UPDATED TDZE INFORMATION.
13. AMENDED S-LOC 01 CASTL FIX CIRCLING MINIMUMS CAT B MDA FROM 540 TO 560 - UPDATED CIRCLING RADIUS AND CONTROLLING OBSTACLE.
14. AMENDED S-LOC 01 CASTL FIX CIRCLING MINIMUMS CAT D MDA/HAT FROM 640/560 TO 800/720 - UPDATED CIRCLING RADIUS AND CONTROLLING OBSTACLE.
15. AMENDED S-LOC 01 HAT FROM 505 TO 504 - UPDATED INFORMATION.
16. AMENDED S-LOC 01 CASTL FIX MDA/HAT FROM 420/345 TO 480/404 - NEW MA CONTROLLING OBSTACLE.
17. ADDED CHART NOTE CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA, (NA WHEN USING PHILADELPHIA INTL ALTIMETER SETTING). - IAPA NOTE.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZDC, ILG ATCT, PHL APCH CNTL, AMGR

FLIGHT CHECKED BY *Digitally signed by*
STEPHEN BAUER **DAVID DANNER**
Jan 17, 2019

OFFICE **DATE**
FICO 1/10/19

DEVELOPED BY *Digitally signed by*
DAVID DANNER (KELLY CARLSON) **DAVID DANNER**
Jan 17, 2019

OFFICE **DATE**
AJV-5421 10/01/2018

APPROVED BY *Digitally signed by*
JULIE MORGAN **DAVID DANNER**
Jan 17, 2019

OFFICE **DATE** **TITLE**
AJV-5420 MANAGER

