

**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> LIVINGSTON COUNTY SPENCER J HARDY	<u>AIRPORT ID</u> KOZW	<u>PROCEDURE NAME</u> ILS OR LOC RWY 13	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> HOWELL	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 962	<u>TDZE</u> 962	<u>SUPERSEDED</u> ILS OR LOC RWY 13	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 04/02/2015	<u>MAG VAR</u> 5W
<u>FACILITY</u> I-OGO	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 DECEMBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1990

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SVM VORTAC		HUCCY INT/I-OGO 11.27 DME					310.65	32.40	3000
FNT VORTAC		HUCCY INT/I-OGO 11.27 DME					240.04	23.35	3000
HUCCY INT/I-OGO 11.27 DME	IF/IAF	DURGY INT/I-OGO 5.67 DME					132.35	5.60 (I-OGO)	2500

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.68 NM AFTER DURGY INT/I-OGO 5.67 DME OR AT I-OGO 0.99 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 356 AND I-OGO NW COURSE TO HUCCY INT/I-OGO 11.27 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. HOLD NW HUCCY, RT, 132.35 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 5000.
3. **FAC:** 132.35 **FAF:** DURGY INT/I-OGO 5.67 DME **DIST FAF TO MAP:** 4.68 **DIST FAF TO THLD:** 4.68
4. **MIN ALT:** HUCCY INT/I-OGO 11.27 DME 3000, DURGY INT/I-OGO 5.67 DME 2500, JIVEX INT/I-OGO 3.09 DME 1540*
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 1063
6. **MIN GS INCPT:** 2500 **GS ALT AT FAF :** DURGY INT/I-OGO 5.67 DME 2500 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 47.7
8. **MSA FROM:** SVM VORTAC 050-295 3100, 295-050 2600

EQUIPMENT REQUIREMENTS NOTES:



NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FNT VORTAC ON V450 EASTBOUND.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LOC CAT C AND D VISIBILITY TO 1 5/8 SM, AND JIVEX FIX MINIMUMS S-13 CAT C AND D VISIBILITY TO 1 SM.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.97 DME*

DISTANCE VDP TO THLD 0.98 NM

* LOC ONLY

CHART FAS OBST: 1064 POLE 423953N/0840218W.

FAS OBST: 1139 AAO 424022N/0840244W.

1139 AAO 424022N/0840244W.

MINIMUMS:

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

ALTERNATE: NA

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 13	1162	1/2	200	1162	1/2	200	1162	1/2	200	1162	1/2	200			
S-LOC 13	1540	1/2	578	1540	1/2	578	1540	1 1/4	578	1540	1 1/4	578			
CIRCLING	1540	1	578	1540	1	578	1540	1 5/8	578	1540	2	578			
JIVEX FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
S-LOC 13	1320	1/2	358	1320	1/2	358	1320	5/8	358	1320	5/8	358			
CIRCLING	1400	1	438	1420	1	458	1420	1 1/2	458	1520	2	558			

CHANGES - REASONS

1. REMOVED ALL NOTES REFERENCING THE BACK-UP ALTIMETER SETTING - MOVED TO FORM 8260-9 FOR CONTINGENCY USE.
2. CHANGED PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS ON FNT VORTAC AIRWAY RADIALS 034 CW 115" TO "PROCEDURE NA FOR ARRIVALS AT FNT VORTAC ON V450 EASTBOUND" - UPDATED RADIALS EXCEED 120 DEGREE MAXIMUM TURN TO INTERCEPT.
3. DELETED ALTERNATE MISSED APPROACH - DECOMMISSIONING OF JXN NAVAID.
4. DELETED INTERSECTION "BAMBY" FROM PROCEDURE - INTERSECTION MADE UP OF NAVAIDS BEING DECOMMISSIONED.
5. INCORPORATED CHANGES FROM AMDT 1A - 8260.19H, 8-3-4C.
6. ADDED CHART NOTE: FOR INOPERATIVE ALS, INCREASE LOC CAT C AND D VISIBILITY TO 1 5/8 SM, AND JIVEX FIX MINIMUMS S-13 CAT C AND D VISIBILITY TO 1 SM. - 8260.19H, 8-6-11, O(H)(3)(D).

PDF EDIT 8/22/19: JAMES LAFFERTY, DELETED REMARKS NOTE:ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT

LIVINGSTON COUNTY SPENCER J HARDY

AIRPORT ID

KOZW

PROCEDURE NAME

ILS OR LOC RWY 13

ORIGINAL/AMENDMENT

1B

CITY

HOWELL

STATE

MI

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** DTW APP CON, LAN APP CON, ZOB, ARPT MGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE *Digitally signed by* **DATE**

DAVID TEFFETELLER

Sep 11, 2019

DEVELOPED BY

JAMES LAFFERTY

Digitally signed by

JAMES LAFFERTY

OFFICE

AJV-A433

DATE

08/21/2019

APPROVED BY

GEORGE DAVIS

Sep 05, 2019

Digitally signed by

DAVID TEFFETELLER

Sep 11, 2019

OFFICE

AJV-A430

DATE

TITLE
MANAGER

