

**FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE  
 TITLE 14 CFR PART 97.33**

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 ID</u> KSHL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> SHELDON	<u>STATE</u> IA		
<u>AIRPORT ELEVATION</u> 1419	<u>TDZE</u> 1419	<u>SUPERSEDED</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 08/12/2021	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 27 JANUARY 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TAA**

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 060/30 CW 240/30	NOPT	060/20 CW 240/20		4500
2. 060/20 CW 240/20		RINOC	IF/IAF	4000
3. 240/30 CW 330/30		TEGKU	IAF	4000
4. 330/30 CW 060/30		MOEMI	IAF	4000

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
TEGKU	IAF	RINOC	NOPT	TF	FB	1.00	240.47	7.20	4000
MOEMI	IAF	RINOC	NOPT	TF	FB	1.00	060.27	7.20	4000
RINOC	IF/IAF	ECELI		TF	FB	1.00	150.37	6.00	3100
ECELI	FAF	ZESOR/1.70 NM TO RW15		TF	FB	0.30	150.39	3.45	
ZESOR/1.70 NM TO RW15		RW15	MAP	TF	FO	0.30	150.39	1.70	
RW15	MAP	1669 MSL		CA			150.39		
1669 MSL		TUDUC		DF	FO	1.00			4000



**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW15

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 DIRECT TUDUC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

<b>1. PT</b>	<b>SIDE OF COURSE</b>	<b>OUTBOUND</b>	<b>FT WITHIN</b>	<b>MILES OF</b>	<b>(IAF)</b>				
<b>2. HOLD NW RINOC, RT, 150.37 INBOUND, 4000 FT. IN LIEU OF PT (IF/IAF), MAX 6000.</b>									
<b>3. FAC: 150.39</b>		<b>FAF: ECELI</b>		<b>DIST FAF TO MAP: 5.15</b>		<b>DIST FAF TO THLD: 5.15</b>			
<b>4. MIN ALT: RINOC 4000, ECELI 3100, ZESOR/1.70 NM TO RW15 2000</b>									
<b>5. DIST TO THLD FROM OM:</b>	<b>MM:</b>	<b>IM:</b>	<b>150 HAT:</b>	<b>250 HAT: 0.66</b>	<b>GS ANT:</b>				
<b>6. MIN GP INCPT: 3100</b>	<b>GP ALT AT FAF :</b>	<b>ECELI 3100</b>		<b>OM:</b>		<b>MM:</b>		<b>IM:</b>	
<b>7. GP ANGLE: 3.00</b>	<b>34:1: IS NOT CLEAR</b>	<b>20:1: IS CLEAR</b>		<b>TCH: 40.0</b>					
<b>8. MSA FROM:</b>									

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 17°C OR ABOVE 54°C.

**ADDITIONAL FLIGHT DATA:**

HOLD SE, RT, 330.51 INBOUND.  
CHART FAS OBST: 1550 TREE (19-040436) 431418N/0955143W.  
1650 AAO 431814N/0955151W.  
CHART VDP AT 1.07 NM TO RW15.  
WAAS CHANNEL # 45828  
REFERENCE PATH ID: W15A  
LTP HAE: 405.7 M



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

**ALTERNATE:** NA  STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E			
	FINAL TYPE	DA/MDA	VIS	HAT/HAA												
LPV DA	1669	1	250	1669	1	250	1669	1	250		NA					
LNAV/VNAV DA	1765	1	346	1765	1	346	1765	1	346		NA					
LNAV MDA	1800	1	381	1800	1	381	1800	1 1/8	381		NA					
CIRCLING	1820	1	401	1920	1	501	2080	1 3/4	661		NA					

**CHANGES - REASONS**

- ADDED TERMINAL ARRIVAL AREA WITH STEPDOWN ALTITUDE - PER ATC REQUEST.
- REMOVED FEEDER FIXES, NEWRN, OTG VOR/DME, AND BILOO FROM TERMINAL ROUTES - PER ATC REQUEST.
- CHANGED IAF MAKEUP BY REMOVING CATID, AND ADDED NEW FIX MOEMI (TAA RIGHT BASE IAF) - PER FPT REQUEST, ESTABLISHED T TYPE RNAV APPROACH.
- CHANGED TEGKU (LEFT BASE IAF) FIX/COURSE/DISTANCE FROM 212.49/5.98 TO 240.47/7.20 - PER ATC REQUEST, ESTABLISHED BASIC T TYPE RNAV APPROACH.
- CHANGED RINOC TO ECELI COURSE FROM 150.36 TO 150.37 - NEW TARGETS COMPUTATION.
- CHANGED ECELI TO STEPDOWN FIX COURSE FROM 150.40 TO 150.39 - NEW TARGETS COMPUTATION.
- UPDATED MISSED APPROACH INSTRUCTION FROM "CLIMB TO 4000 DIRECT TUDUC AND HOLD" TO "CLIMB TO 4000 DIRECT TUDUC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000." - MINIMUM ALTITUDE OF 4000' NOT ACHIEVED AT CLEARANCE LIMIT.
- UPDATED HOLD-IN-LIEU COURSE FROM 150.36 TO 150.37 AND CHANGED IN LIEU OF POINT FROM IAF TO IF/IAF - NEW TARGETS COMPUTATIONS.
- DELETED MSA FROM PROFILE - NOT NEEDED IAW 8260.19, SECTION 8-6.
- CHANGED "RNP APCH" TO "RNP APCH - GPS" UNDER PBN REQUIREMENTS NOTE - IAW ORDER 8260.19I, 8-6-8.
- UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 130°C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 17°C OR ABOVE 54°C." IN ADDITIONAL FLIGHT DATA - IAW ORDER 8260.19I, 8-6-9.
- DELETED "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - INCORRECTLY DOCUMENTED ON PREVIOUS AMENDMENT.
- ADDED "1650 AAO 31814N/0955151W" TO ADDITIONAL FLIGHT DATA - 7:1 OBSTACLE.
- INCREASED LNAV/VNAV ALL CATS DA/HAT FROM 1669/250 TO 1765/346 - DUE TO NEW CONTROLLING OBSTACLE.
- CHANGED LNAV CAT C VISIBILITY MINIMUMS FROM 1 1/2 TO 1 1/8 SM - PER DATA FROM VISIBILITY TABLE FROM 8260.3B, TABLE 3-3-1.
- INCREASED CIRCLING CAT B MDA/HAA FROM 1880/461 TO 1920/501 - DUE TO NEW CONTROLLING OBSTACLE.
- INCREASED CIRCLING CAT C MDA/HAA FROM 1880/461 TO 2080/661 - DUE TO NEW CONTROLLING OBSTACLE.
- INCREASED CIRCLING CAT C VISIBILITY FROM 1 1/2 TO 1 3/4 SM - DUE TO HIGHER MDA/HAT AND IAW 8260.3D.
- UPDATED FPAP LATITUDE/LONGITUDE FROM N431128.00/W0954921.49 TO N431128.0005/W0954921.4730 - NEW FAS DATA CALCULATIONS.
- UPDATED CRC REMAINDER FROM DCCE18C3 TO 79E98F6F - NEW FAS DATA CALCULATIONS.

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZMP, AMGR

**FLIGHT CHECKED BY**

BRIAN P CARSON

*Digitally signed by*  
**DONALD H LANIER**  
Nov 02, 2021

**OFFICE**

FPO

**DATE**

10/28/2021

**DEVELOPED BY**

DONALD H. LANIER (PARNELL PRASSADA)

*Digitally signed by*  
**DONALD H LANIER**  
Nov 02, 2021

**OFFICE**

AJV-A431

**DATE**

01/27/2022

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*  
**DONALD H LANIER**  
Nov 02, 2021

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSHL
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	431249.0530N
LTP/FTP LONGITUDE	0955012.1165W
LTP/FTP ELLIPSOIDAL HEIGHT	+04057
FPAP LATITUDE	431128.0005N
FPAP LONGITUDE	0954921.4730W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	79E98F6F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04326
FPAP ORTHOMETRIC HEIGHT	+04326

