

**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.

<b><u>AIRPORT</u></b> HUNTSVILLE EXECUTIVE TOM SHARP JR FIELD	<b><u>AIRPORT ID</u></b> KMDQ	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 36	<b><u>ORIGINAL/AMENDMENT</u></b> 1B	<b><u>CITY</u></b> HUNTSVILLE	<b><u>STATE</u></b> AL
<b><u>AIRPORT ELEVATION</u></b> 764	<b><u>TDZE</u></b> 764	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 36	<b><u>ORIGINAL/AMENDMENT</u></b> 1A	<b><u>DATED</u></b> 09/18/2014	<b><u>MAG VAR</u></b> 4W
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 28 FEBRUARY 2019	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>CANCEL/SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 2015

**TAA** THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 19-04.

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>ALTITUDE</u></b>
1. 275/30 CW 095/30	NOPT	KUCPE	IF/IAF	3900
2. 095/30 CW 275/30	PT	KUCPE	IAF	4700

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
KUCPE	IF/IAF	ZUPIM		TF	FB	1.00	004.93	9.97	3200
ZUPIM	FAF	OMUME/3.00 NM TO RW36		TF	FB	0.30	004.93	4.51	
OMUME/3.00 NM TO RW36		RW36	MAP	TF	FO	0.30	004.93	3.00	
RW36	MAP	964 MSL		CA			004.93		
964 MSL		EROVE		DF	FO	1.00			3400

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW36

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3400 DIRECT EROVE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD S KUCPE, RT, 004.93 INBOUND, 3900 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 004.93      FAF: ZUPIM      DIST FAF TO MAP: 7.51      DIST FAF TO THLD: 7.51

4. MIN ALT: KUCPE 3900, ZUPIM 3200, OMUME/3.00 NM TO RW36 1760\*

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      200 HAT: 0.49      GS ANT:

6. MIN GP INCPT: 3200      GP ALT AT FAF : ZUPIM 3200      OM:      MM:      IM:

7. GP ANGLE: 3.00      34:1: IS CLEAR      20:1: IS CLEAR      TCH: 45.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART R-2104 A,B,C,D,E.  
CHART VDP AT 1.55 NM TO RW36\*  
\*LNAV ONLY  
WAAS CHANNEL #53702  
REFERENCE PATH ID: W36A  
CHART FAS OBST: 1036 TREE 344802N/0863329W.  
1679 AAO 344324N/0863217W.  
HOLD N, RT, 184.93 INBOUND  
LTP HAE: 204.2 M

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 1300-3

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
LPV DA	964	3/4	200	964	3/4	200	964	3/4	200	964	3/4	200			
LNAV/VNAV DA	1250	1 5/8	486	1250	1 5/8	486	1250	1 5/8	486	1250	1 5/8	486			
LNAV MDA	1300	1	536	1300	1	536	1300	1 1/2	536	1300	1 1/2	536			
CIRCLING	1300	1	536	1300	1	536	1560	2 1/4	796	2000	3	1236			



**CHANGES - REASONS**

1. CHART TDZE 764, DELETE THRE 763, CHANGED LPV DA ALL CATS FROM 963 TO 964, LNAV/VNAV DA ALL CATS FROM 1249 TO 1250, LNAV HAT FROM 537 TO 536 ALL CATS, CIRCLING CATS A/B HAA FROM 537 TO 536, AND CHANGED CA ALTITUDE FROM 963 TO 964 IN TERMINAL ROUTES - IAW MEMO - IMPLEMENTATION OF AFS-400 MEMORANDUM, PUBLISH TOUCHDOWN ZONE ELEVATION ON INSTRUMENT APPROACH CHARTS, DATED JANUARY 8, 2014.
2. RAISED AIRPORT ELEVATION FROM 763 TO 764 AND CHANGED CIRCLING CAT C HAA FROM 797 TO 796 AND CAT D HAA FROM 1237 TO 1236 AND CHANGED LTP HAE FROM "204.1 M" TO "204.2 M"- NEW AIRPORT DATA.
3. ADDED LEG TYPES AND RNP VALUES TO TERMINAL ROUTES - IAW 8260.19H 8-6-4.A.(6).
4. DELETED "DISTANCE TO THLD FROM 200 HATH: 0.49 NM" FROM ADDITIONAL FLIGHT DATA AND ADDED "200 HAT: 0.49" TO LINE 5 - ADDITIONAL FLIGHT DATA NOTE NO LONGER REQUIRED.
5. CHANGED 34:1 IS NOT CLEAR TO 34:1 IS CLEAR AND ADDED 20:1 IS CLEAR TO LINE 7 - IAW 8260.19H 8-6-7.G.(3).
6. ADDED "RNP APCH" TO PBN REQUIREMENTS NOTE AND DELETED "CHART NOTE: DME/DME RNP-0.3 NA" FROM NOTES SECTION - PBN REQUIREMENTS NOTE REPLACED LEGACY NOTE; IAW 8260.19H 8-6-8.B(1) AND MEMO: IMPLEMENTATION OF FAA ORDER 8260.19H CHANGE 1, FLIGHT PROCEDURES AND AIRSPACE DATED JUNE 8, 2018 ATTACHMENT 4 PARA 2.
7. MOVED BACK-UP ALTIMETER NOTE AND ASSOCIATED NOTES; DELETED "@ NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19H 8-6-9.F.(3).
8. UPDATED AIRPORT NAME FROM "HUNTSVILLE EXECUTIVE AIRPORT/TOM SHARP JR FLD" TO "HUNTSVILLE EXECUTIVE TOM SHARP JR FIELD" - AIRPORT NAME CHANGE.
9. REMOVED HELICOPTER VISIBILITY REDUCTION NOTE - VISUAL SURFACES ARE CLEAR.
10. CHANGED CRC REMAINDER FROM "DB266316" TO "F565A994" - LTP AND FPAP LAT/LONG AND LTP/FTP ELLIPSOIDAL HEIGHT UPDATED.
11. CHANGED VDP DIST FROM 1.58 TO 1.55 - VGSi DATA; TCH CHANGED FROM 34.8 TO 40.3.
12. REMOVED FAHRENHEIT TEMPERATURES FROM THE BARO-VNAV NOTE - FAHRENHEIT VALUES ARE NO LONGER REQUIRED PER 8260.19H 8-6-9.S.

12/27/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/10/2018.

1. CORRECTED LPV CATS B/C VISIBILITY FROM 1 3/4 TO 3/4.

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZME ARTCC, HSV APP CON, AL AERO, AMGR.

**FLIGHT CHECKED BY**  
JUAN MANUEL CASTRO

*Digitally signed by*  
**DONALD H LANIER**

Dec 28, 2018

**OFFICE**  
FIOG

**DATE**  
12/05/2018

**DEVELOPED BY**  
DONALD H. LANIER (JACOB MAXFIELD)

*Digitally signed by*  
**DONALD H LANIER**

Dec 28, 2018

**OFFICE**  
AJV-5431

**DATE**  
09/11/2018

**APPROVED BY**  
PATRICK MULQUEEN

*Digitally signed by*  
**DONALD H LANIER**

Dec 28, 2018

**OFFICE**  
AJV-5430

**DATE**

**TITLE**  
MANAGER



**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMDQ
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	345101.5300N
LTP/FTP LONGITUDE	0863327.6845W
LTP/FTP ELLIPSOIDAL HEIGHT	+02042
FPAP LATITUDE	345230.7645N
FPAP LONGITUDE	0863325.9265W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER	F565A994
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**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02327
FPAP ORTHOMETRIC HEIGHT	+02327

