

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</u> ROCK RAPIDS MUNI	<u>AIRPORT ID</u> KRRQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> ROCK RAPIDS	<u>STATE</u> IA
<u>AIRPORT ELEVATION</u> 1363	<u>TDZE</u> 1363	<u>SUPERSEDED</u> GPS RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 05/20/1999	<u>MAG VAR</u> 5E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 JUNE 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

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>
OTG VOR/DME		ESXAZ		TF	FB	1.00	270.87	23.15	4000
BRAIN	IAF	CODDE		TF	FB	1.00	076.46	9.35	3700
ESXAZ	IAF	CODDE		TF	FB	1.00	256.69	5.00	3700
CODDE	IF	AJBOY		TF	FB	1.00	166.61	7.50	3200
AJBOY	FAF	RW16	MAP	TF	FO	0.30	166.65	5.69	
RW16	MAP	2200 MSL		CA			166.65		2200
2200 MSL		BRAIN		DF	FO	1.00			3700

MISSED APPROACH

MAP:

LP: RW16
 LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2200 THEN CLIMBING RIGHT TURN TO 3700 DIRECT BRAIN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT CODDE

3. FAC:

166.65

FAF:

AJBOY

DIST FAF TO MAP:

5.69

DIST FAF TO THLD:

5.69

4. MIN ALT: CODDE 3700, AJBOY 3200

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1:

IS NOT CLEAR

20:1:

IS NOT CLEAR

TCH:

8. MSA FROM: RW16 4500

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: USE SIOUX FALLS, SD ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART KLYV IN PLAN AND PROFILE VIEWS.
AJBOY TO RW16: 3.00/30.
WAAS CHANNEL #82742
REFERENCE PATH ID: W16A
FAS OBST: 1640 AAO 433154N/0961236W, 1660 AAO 433209N/0961236W.
1660 AAO 433209N/0961236W, 1670 AAO 433225N/0961303W.
HOLD NE, RT, 225.00 INBOUND
LTP HAE: 387.9 M

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
LP MDA	1960	1	597	1960	1	597		NA			NA				
LNAV MDA	1980	1	617	1980	1	617		NA			NA				
CIRCLING	1980	1	617	2040	1	677		NA			NA				



CHANGES - REASONS

- 1. PROCEDURE NAME CHANGED FROM "GPS RWY 16" TO "RNAV GPS RWY 16" - IAW 8260.3D, SECTION 1-6 IDENTIFICATION OF IAPS.
- 2. ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H 8-6-8 (B(1)) PBN NAVSPEC.
- 3. ADDED ADDITIONAL FLIGHT DATA NOTE: CHART CIRCLING ICON - NEW CIRCLING CRITERIA DIMENSIONS APPLIED TO THIS PROCEDURE.
- 4. ADDED LP MINIMA TO PROCEDURE - ADDED LP PROCEDURE TO PROVIDE GREATER AIRFIELD CAPABILITY.
- 5. MOVED FAF (AJBOY) LOCATION - TO MAINTAIN 3.00 DEGREE DESCENT GRADIENT.
- 6. CHANGED FAF ALTITUDE FROM "3100" TO "3200" - AIRSPACE CALCULATIONS WITHIN INTERMEDIATE SEGMENT RAISED FAF CROSSING ALTITUDE 100 FEET.
- 7. DELETED FAS OBST: 1579 TREES 432812/961144 - IDENTIFIED IN PREVIOUS PROCEDURE.
- 8. CHANGED DISTANCE FAF TO MAP/THLD FROM "5.00" TO "5.69" - RESULT OF FAF RE-LOCATION.
- 9. ADDED CHART NOTE: PROCEDURE NA AT NIGHT - UNABLE TO DETERMINE 20:1 SURFACE STATUS WITH A LACK OF SURVEY DATA.
- 10. ADDED CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - IAW 8260.19H 8-6-11 (K(3)) MINIMUMS.
- 11. CHANGED LNAV MDA/HAT FROM "1900/537" TO "1960/597" - CHANGED DUE TO NEW CONTROLLING OBSTACLE ON FINAL FROM "100' TREE" TO "AAO".
- 12. CHANGED CIRCLING MDA/HAA CAT B FROM "1960/597" TO "2040/677" - NEW CONTROLLING OBSTACLE FOUND FROM PROCEDURE BUILD WITH UPDATED CIRCLING DIMENSIONS.

NOTAM FDC 8/2855 INCORPORATED INTO THIS AMENDMENT. NOTAM CAN BE CANCELLED UPON PROCEDURE CHARTING.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, FSD APP CON, AMGR

FLIGHT CHECKED BY

SHAWN D MAXWELL

Digitally signed by
DAVID TEFFETELLER
Mar 28, 2019

OFFICE
FICO

DATE
3/21/19

DEVELOPED BY
JAMES LAFFERTY

Digitally signed by
JAMES LAFFERTY
Jan 09, 2019

OFFICE
AJV-5433

DATE
11/08/2018

APPROVED BY
PATRICK MULQUEEN

Digitally signed by
DAVID TEFFETELLER
Mar 28, 2019

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	KRRQ
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	432720.1800N
LTP/FTP LONGITUDE	0961049.6800W
LTP/FTP ELLIPSOIDAL HEIGHT	+03879
FPAP LATITUDE	432552.0070N
FPAP LONGITUDE	0961031.9435W
THRESHOLD CROSSING HEIGHT (TCH)	00030.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1896
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	4F4B1F9A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04142
FPAP ORTHOMETRIC HEIGHT	+04142

