

**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> KDBQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>CITY</u> DUBUQUE	<u>STATE</u> IA		
<u>AIRPORT ELEVATION</u> 1076	<u>TDZE</u> 1073	<u>SUPERSEDED</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 10/10/2019	<u>MAG VAR</u> 3E	<u>EPOCH YEAR</u> 1975
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 OCTOBER 2021	<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>
DBQ VORTAC		WITOK		TF	FO	1.00	356.38	13.07	3000
CASSY	IAF	WITOK	NOPT	TF	FB	1.00	115.08	15.91	3000
SWAGG	IAF	WITOK	NOPT	TF	FB	1.00	154.79	14.67	3000
BAULK	IAF	WITOK	NOPT	TF	FB	1.00	257.47	23.25	3000
WITOK	IF/IAF	ZUGNI		TF	FB	1.00	176.95	7.00	2900
ZUGNI	FAF	RW18	MAP	TF	FO	0.30	176.95	5.58	
RW18	MAP	1323 MSL		CA			176.95		
1323 MSL		DIVGE		DF	FO	1.00			2700

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW18

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT DIVGE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
42
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N WITOK, RT, 176.95 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 176.95FAF: ZUGNI

DIST FAF TO MAP: 5.58

DIST FAF TO THLD: 5.58

4. MIN ALT: WITOK 3000, ZUGNI 2900

5. DIST TO THLD FROM FAF:MM:IM:150 HAT:250 HAT: 0.63GS ANT:

6. MIN GP INCPT: 2900GP ALT AT FAF : ZUGNI 2900OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 50.0

8. MSA FROM: RW18 2900

PBN REQUIREMENTS NOTE:

RNP APCH - GPS

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -28°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 356.95 INBOUND.
CHART FAS OBST: 1267 TOWER (19-000018) 423010N/0904225W.
CHART VDP AT 1.29 NM TO RW18.
WAAS CHANNEL # 56431
REFERENCE PATH ID: W18A
CHART CIRCLING ICON.
LTP HAE: 294.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	1323	3/4	250	1323	3/4	250	1323	3/4	250	1323	3/4	250			
LNAV/VNAV DA	1334	7/8	261	1334	7/8	261	1334	7/8	261	1334	7/8	261			
LNAV MDA	1520	1	447	1520	1	447	1520	1 3/8	447	1520	1 3/8	447			
CIRCLING	1580	1	504	1600	1	524	1600	1 1/2	524	1800	2 1/4	724			



CHANGES - REASONS

1. INCORPORATED NOTAM FDC 9/3739, AND 4/8403.
2. ADDED "MAX 6000" TO HOLD-IN-LIEU ON PROFILE LINE 2 - IAW 8260.19I PARA 8-6-7.B.(2).
3. DELETED "DISTANCE TO THLD FROM 250 HATH: 0.63 NM" FROM ADDITIONAL FLIGHT DATA AND ADDED "250 HAT: 0.63" TO PROFILE LINE 5 - CONVERSION FROM OLD FORMS TO NEW FORMS ALLOWS FOR THIS NOTE IN THE PROFILE SECTION.
4. ADDED "20:1 IS CLEAR" TO PROFILE LINE 7 - THERE ARE NO 20:1 PENETRATIONS TO RWY 18.
5. CHANGED "RNP APCH" TO "RNP APCH - GPS" IN PBN REQUIREMENTS - IAW 8260.19I 8-6-8.B.(2).
6. DELETED "CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MONTICELLO ALTIMETER SETTING" - NOT REQUIRED.
7. DELETED "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MONTICELLO ALTIMETER SETTING AND INCREASE ALL DA 88 FEET AND ALL MDA 100 FEET, INCREASE LPV ALL CATS VISIBILITY TO 1 1/8 MILE, INCREASE LNAV/VNAV ALL CATS 1/4, LNAV CAT C AND D AND CIRCLING CAT C VISIBILITY 1/4 MILE" - NOT REQUIRED.
8. REMOVED "**LNAV ONLY" NOTE IN ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
9. CHANGED VDP NOTE FROM "CHART VDP AT 1.30 NM TO RW18*" TO "CHART VDP AT 1.29 NM TO RW18" IN ADDITIONAL FLIGHT DATA - UPDATED VDP BASED ON TARGETS EVALUATION, "**NO LONGER REQUIRED.
10. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM "CHART FAS OBST: 1267 TOWER 423010N/0904225W, 1169 TREE 422502N/0904332W" TO "CHART FAS OBST: 1267 TOWER (19-000018) 423010N/0904225W" - IAW 8260.19I 8-6-10.C., LNAV/VNAV CONTROLLER IS NOT CHARTED AND OBSTACLE NUMBER WAS ADDED.
11. CHANGED ALTERNATE MINIMUMS FROM "STANDARD, NA WHEN LOCAL WEATHER NOT AVAILABLE" TO "STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE." - EXPANDED CIRCLING CRITERIA INCREASES CIRCLING CAT D VIS ABOVE 2 SM.
12. LNAV/VNAV DA/HAT CHANGED FROM "1332/259" TO "1334/261" - NEW CONTROLLING OBSTACLE IN MISSED APPROACH SLOPED SURFACE.
13. CIRCLING CAT B CMDA/HAA CHANGED FROM "1580/503" TO "1600/524" - NEW CONTROLLING OBSTACLE
14. LTP/FTP LATITUDE CHANGED FROM "422434.6435N" TO "422434.6445N" - NEW AIRPORT SURVEY.
15. FPAP LOCATION CHANGED FROM "422305.5100N/0904243.2400W" TO "422305.5135N/0904243.2220W" - TARGETS EVALUATION.
16. CRC REMAINDER CHANGED FROM "E3F19E6D" TO "49C80DD2" - LTP/FTP AND FPAP LOCATIONS CHANGED.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU, DBQ ATCT

FLIGHT CHECKED BY

JEFFREY W HARING

Digitally signed by

JASON KRETSCHMER

Aug 04, 2021

OFFICE

FICO

DATE

07/23/2021

DEVELOPED BY

JASON KRETSCHMER (COLIN CAMPBELL)

Digitally signed by

JASON KRETSCHMER

Jul 15, 2021

Digitally signed by

JASON KRETSCHMER

Jul 15, 2021

OFFICE

AJV-A421

DATE

03/09/2021

APPROVED BY

MARLON ROBINSON

OFFICE

AJV-A420

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDBQ
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	422434.6445N
LTP/FTP LONGITUDE	0904243.3415W
LTP/FTP ELLIPSOIDAL HEIGHT	+02946
FPAP LATITUDE	422305.5135N
FPAP LONGITUDE	0904243.2220W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0824
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	49C80DD2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03270
FPAP ORTHOMETRIC HEIGHT	+03270