

**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.

AIRPORT ID MCG/PAMC	PROCEDURE NAME RNAV (GPS) RWY 17	ORIGINAL/AMENDMENT 2	CITY MC GRATH	STATE AK
AIRPORT ELEVATION 343	TDZE 343	SUPERSEDED RNAV (GPS) RWY 16	DATED 07/14/2022	MAG VAR 12E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 2025
				CANCEL/SUSPEND

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 347/30 CW 077/30		347/6 CW 077/6		6400
2. 347/6 CW 077/6		TIGUE	IF/IAF	4900
3. 077/30 CW 257/30	NOPT	077/6 CW 257/6		6400
4. 077/6 CW 257/6		TIGUE	IF/IAF	4900
5. 257/30 CW 347/30		257/15 CW 347/15		5100
6. 257/15 CW 347/15		HAMHE	IAF	4900

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HAMHE	IAF	TIGUE	NOPT	TF	FB	1.00	257.20	9.00	4900
TIGUE	IF/IAF	CADOK		TF	FB	1.00	166.90	5.00	3400
CADOK		WARSH		TF	FB	1.00	166.90	4.89	2000
WARSH	FAF	RW17	MAP	TF	FO	0.30	166.91	5.08	
RW17	MAP	800 MSL		CA			166.91		800
800 MSL		TIGUE		DF	FO	1.00			4900

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

(DO NOT EXCEED 190 KIAS UNTIL TIGUE) CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 4900 DIRECT TIGUE AND HOLD, CONTINUE CLIMB-IN-HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------------------|-----------------------|------------------------------|--------------|-------------------------------|--|----------------|--|--|--|--|--|------------|--|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) | | | | | | | | | | |
| 2. HOLD N TIGUE, LT, 166.90 INBOUND, 4900 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | | | | | | | | | | | |
| 3. FAC: 166.91 | | FAF: WARSH | | DIST FAF TO MAP: 5.08 | | DIST FAF TO THLD: 5.08 | | | | | | | | | |
| 4. MIN ALT: TIGUE 4900, CADOK 3400, WARSH 2000 | | | | | | | | | | | | | | | |
| 5. DIST TO THLD FROM OM: | | MM: | IM: | 150 HAT: | | 250 HAT: 0.67 | | GS ANT: | | | | | | | |
| 6. MIN GP INCPT: 2000 | | GP ALT AT PFAF: WARSH 2000 | | | | OM: | | MM: | | | | | | IM: | |
| 7. GP ANGLE: 3.00 | | 34:1: IS CLEAR | 20:1: IS CLEAR | TCH: 38.0 | | | | | | | | | | | |
| 8. MSA FROM: | | | | | | | | | | | | | | | |

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA FOR CAT D W OF RWY 17-35.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA.

ADDITIONAL FLIGHT DATA:

FAS OBST: 653 AAO 630139N/1553627W.
 CHART VDP AT 1.69 NM TO RW17.
 WAAS CHANNEL # 90226
 REFERENCE PATH ID: W17A
 LTP HAE: 114.4 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C 1200-3, 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	593	1	250	593	1	250	593	1	250	593	1	250				
LNAV/VNAV DA	857	1	514	857	1 3/8	514	857	1 3/8	514	857	1 3/8	514				
LNAV MDA	920	1	577	920	1	577	920	1 5/8	577	920	1 5/8	577				
CIRCLING	920	1	577	920	1	577	1460	3	1117	1620	3	1277				



CHANGES - REASONS

1. MAGVAR AND EPOCH YEAR CHANGED FROM "19E/2005" TO "12E/2025" – UPDATED PAMC MAGVAR.
2. PROCEDURE NAME: CHANGED FROM "RNAV (GPS) RWY 16" TO "RNAV (GPS) RWY 17" AND ALL RUNWAY REFERENCES FROM "16" TO "17" – AIRPORT RENUMBERING RWY DUE TO MAGVAR UPDATE.
3. UPDATED CHART NOTE FROM "CIRCLING NA FOR CAT C AND D WEST OF RWY 16-34" TO "CIRCLING NA FOR CAT D W OF RWY 17-35" – MATCH NEW RWY NUMBERS DUE TO MAGVAR CHANGE.
4. MINIMUMS: REMOVED LP MINIMUS AND REPLACED WITH LPV AND LNAV/VNAV – PER FPT REQUEST.
5. TERMINAL ROUTES: FIX BEEOH CANCELLED REPLACED BY MAP AT THRESHOLD – NO LONGER REQUIRED FOR MISSED PENETRATIONS.
6. TERMINAL ROUTES: NEW IAF HAMHE ADDED FOR LEFT BASE TAA – PER FPT REQUEST.
7. TERMINAL ROUTES: SEGMENT TIGUE TO CADOK COURSE CHANGED FROM "159.90" TO "166.90" – PER NEW MAGVAR.
8. TERMINAL ROUTES: SEGMENT CADOCK TO WARSH COURSE CHANGED FROM "159.90" TO "166.90" – PER NEW MAGVAR.
9. TERMINAL ROUTES: SEGMENT CADOCK TO WARSH DISTANCE CHANGED FROM "4.86" TO "4.89" – PER NEW PFAF LOCATION.
10. TERMINAL ROUTES: SEGMENT WARSH TO MAP DISTANCE CHANGED FROM "4.11" TO "5.08" – PER NEW MAP POSITION AT THRESHOLD AND NEW PFAF LOCATION.
11. TERMINAL ROUTES SEGMENT WARSH TO MAP COURSE CHANGED FROM "159.1" TO "166.91" – PER NEW MAGVAR.
12. MISSED APPROACH: CA LEG CHANGED FROM "741" TO "800" – ADDITION OF LPV AND VNAV MINIMUMS.
13. MISSED APPROACH: ADDED SPEED RESTRICTION AND CLIMB TO ALTITUDE, CHANGED FROM "CLIMBING RIGHT TURN TO 4900 DIRECT TIGUE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4900" TO "(DO NOT EXCEED 190 KIAS UNTIL TIGUE) CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 4900 DIRECT TIGUE AND HOLD, CONTINUE CLIMB-IN-HOLD"
14. TAA: ADDED LEFT BASE CONNECTED TO HAMHE "257/30 CW 347/30 AT 5100" AND STEPDOWN ARC AT "257/15 CW 347/15 AT 4900" – NEW INITIAL PER FPT REQUEST.
15. TAA: SECTOR CHANGED FROM "070/30 CW 250/30 AND 070/6 CW 250/6" TO "347/30 CW 077/30 AND 347/6 CW 077/6" – UPDATED MAGVAR.
16. TAA: SECTOR 347/30 CW 077/30 ALTITUDE CHANGED FROM "6500" TO "6400" – PER CURRENT OBSTACLE EVALUATION.
17. TAA: SECTOR CHANGED FROM "070/30 CW 250/30 AND 070/6 CW 250/6" TO "077/30 CW 257/30 AND 077/6 CW 257/6" – UPDATED MAGVAR.
18. PROFILE LINE 2: HILPT AT TIGUE COURSE CHANGED FROM "159.9" TO "166.9" – UPDATED MAGVAR.
19. PROFILE LINE 3: FAC CHANGED FROM "159.91" TO "166.91" – UPDATED MAGVAR.
20. ADDED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C OR ABOVE 54C – ADDED LNAV/VNAV MINIMUMS.
21. PROFILE LINE 7: TCH CHANGED FROM "32" TO "38" – TO MATCH VGS1.
22. ADDITIONAL FLIGHT DATA: VDP CHANGED FROM "0.84 MILES TO BEOOH" TO "1.69 NM TO RWY 17" – MAP MOVED TO THLD.
23. MINIMUMS: LNAV CHANGED FROM MDA/HAT/VIS "960/619/1 1/4" CAT A/B AND "960/619/ 1 3/4" CAT C/D TO "920/577/1" CAT A/B AND "920/577/1 5/8" CAT C/D – PER NEW EVALUATION AND VISIBILITY IAW 8260.3E TABLE 3-3-1.
24. MINIMUMS: CIRCLING CHANGED CMDA/HAA/VIS FROM VIS "960/619/1 1/4" CAT A/B, "1460/1117/1 3/4" CAT C, "1620/1277/2 3/4" CAT D TO "920/577/1" CAT A/B, "1460/1117/3" CAT C, "1620/1277/3" CAT D – PER NEW EVALUATION AND VISIBILITY IAW 8260.3E TABLE 3-3-7.
25. TERMINAL ROUTES: REMOVED VTR NDB FEEDER SEGMENT – PER ATC REQUEST.
26. FAS DATA: CHANGED FROM "LTP/FTP LATITUDE 625727.7500N LTP/FTP LONGITUDE 1553618.8000W" TO "LTP/FTP LATITUDE 625727.7480N LTP/FTP LONGITUDE 1553618.8015W" – MAGVAR UPDATE, RUNWAY NUMBER CHANGE, NEW AIRPORT SURVEY DATA.
27. FAS DATA: LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+01138" TO "+01144" – MAGVAR UPDATE, RUNWAY NUMBER CHANGE, NEW AIRPORT SURVEY DATA.
28. FAS FATA: CHANGED FROM "FPAP LATITUDE 625558.9400N FPAP LONGITUDE 1553615.0900W" TO "FPAP LATITUDE 625558.9370N FPAP LONGITUDE 1553615.1070W" – MAGVAR UPDATE, RUNWAY NUMBER CHANGE, NEW AIRPORT SURVEY DATA.
29. FAS DATA: THRESHOLD CROSSING HEIGHT CHANGED FROM "00032.0" TO "00038.0" – FIXES MOVED.
30. FAS DATA: VERTICAL ALERT LIMIT CHANGED FROM "0.0" TO "50.0" – LPV LINE OF MINIMUM ADDED TO PROCEDURE.
31. FAS DATA: CRC REMAINDER CHANGED FROM "1095D2B6" TO "DFEB34F5" - FAS DATA BLOCK CHANGES.
32. MISSED APPROACH POINT: LNAV MAP CHANGED FROM "BEOOH" TO "RWY17" – MAP MOVED TO THRESHOLD.
33. PROFILE LINE 2: CHANGED FROM "HOLD N TIGUE, L T, 159.90 INBOUND, 4900 FT. IN LIEU OF PT (IAF)" TO "HOLD N TIGUE, LT, 166.90 INBOUND, 4900 FT. IN LIEU OF PT (IAF), MAX 6000" – IAW 8260.19I PARA 8-6-7.B.(2).
34. PROFILE LINE 3: DISTANCE FAF TO MAP CHANGED FROM "4.11" TO "5.08" – PER NEW MAP POSITION AT THRESHOLD AND NEW PFAF LOCATION.
35. PROFILE LINE 3: DISTANCE FAF TO THLD CHANGED FROM "5.11" TO "5.08" – PER NEW MAP POSITION AT THRESHOLD AND NEW PFAF LOCATION.
36. PROFILE LINE 6: ADDED "2000" TO MIN GS INCPT AND "WARSH 2000" TO GP ALT AT PFAF – UPDATED FORMATTING.
37. PROFILE LINE 7: ADDED "20:1 IS CLEAR" – UPDATED IAW 8260.19J, 8-6-7 (G)(3).
38. ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FORM "699 AAO 630134N11553728W" TO "653 AAO 630139N/1553627W" – NEW CONTROLLING FAS OBSTACLE.
39. ADDITIONAL FLIGHT DATA: REMOVED NOTE "WARSH TO RW17: 3.00/38" - NOTE NO LONGER REQUIRED.
40. PROFILE LINE 5: ADDED "250 HAT: 0.67" - 8260.19J 8-6-7.E.



COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZAN ARTCC, APT MGR

FLIGHT CHECKED BY

Digitally signed by
ROBERT G HAMILTON
Jul 29, 2025

OFFICE

AJF

DATE

07/23/2025

DEVELOPED BY

JOHN BORDY (GIORGIA FERREIRA)

Digitally signed by
ROBERT G HAMILTON
Jul 29, 2025

OFFICE

AJV-A33

DATE

11/19/2024

APPROVED BY

JOHN BORDY

Digitally signed by
ROBERT G HAMILTON
Jul 29, 2025

OFFICE

AJV-A33

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

0
0
PAMC
RW17
0
0
W17A
625727.7480N
1553618.8015W
+01144
625558.9370N
1553615.1070W
00038.0
F
03.00
106.75
1104
40.0
50.0

CRC REMAINDER

DFEB34F5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

PA
+01045
+01045



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

AIRPORT ID
MCG/PAMC

PROCEDURE NAME
RNAV (GPS) RWY 17

AMDT NO.
2

CITY
MC GRATH

STATE
AK

AIRPORT ELEVATION
343

FACILITY
RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
347/30 CW 077/30

TO
347/6 CW 077/6

RNP DISTANCE PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	631124.00N/1560445.00W	4361	215	8	4B	2000					6400
TERRAIN	631124.00N/1560545.00W	4160 (4200)								AS1500	5700

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
347/6 CW 077/6

TO
TIGUE

RNP DISTANCE PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	631215.00N/1555412.00W	2750	215	8	4B	2000				AT150	4900
TERRAIN	631218.00N/1554400.00W	928 (900)								AS1500	2400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MCG/PAMC

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RNAV (GPS) RWY 17

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2

CITY
MC GRATH

STATE
AK

AIRPORT ELEVATION
343

FACILITY
RNAV

STRAIGHT-IN AREA

FROM
077/30 CW 257/30

TO
077/6 CW 257/6

RNP DISTANCE PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	631124.00N/1560445.00W	4361	215	8	4B	2000					6400
TERRAIN	633045.00N/1550312.00W	3920 (3900)								AS1500	5400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
077/6 CW 257/6

TO
TIGUE

RNP DISTANCE PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	631709.00N/1554915.00W	2874	215	8	4B	2000					4900
TERRAIN	631521.00N/1554233.00W	2175 (2200)								AS1500	3700

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



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2

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FACILITY
RNAV

LEFT BASE AREA

FROM
257/30 CW 347/30

TO
257/15 CW 347/15

RNP DISTANCE PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	631624.00N/1543315.00W	3042	215	8	4B	2000					5100
TERRAIN	630345.00N/1550718.00W	1866 (1900)								AS1500	3400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LEFT BASE AREA

FROM
257/15 CW 347/15

TO
HAMHE

RNP DISTANCE PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	631521.00N/1554230.00W	2376	215	8	4B	2000				AT524	4900
TERRAIN	630345.00N/1550718.00W	1866 (1900)								AS1500	3400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



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INITIAL

FROM
HAMHE

TO
TIGUE

RNP
1.00

DISTANCE
9.00

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	631339.00N/1554021.00W	1546	215	8	4B	1000				AT2354	4900
TERRAIN	631330.00N/1553930.00W	1325 (1300)								AS1500	2800

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
TIGUE (IF/IAF)

TO
CADOK

RNP
1.00

DISTANCE
5.00

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	631339.00N/1554021.00W	1546	215	8	4B	500				AT1354	3400
TERRAIN	631339.00N/1554021.00W	1345 (1300)								AS1500	2800

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



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FACILITY
RNAV

INTERMEDIATE: STEPDOWN

FROM
CADOK TO
WARSH

RNP DISTANCE PAT MAP HAT HMAS
1.00 4.89

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	630430.00N/1553309.00W	591	215	8	4B	500				AT909	2000
TERRAIN	630718.00N/1554106.00W	390 (400)								AS1500	1900

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM
WARSH TO
RW17

RNP DISTANCE PAT MAP HAT HMAS
0.30 5.08 DA 250

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE	625730.00N/1553627.00W	398	215	8	4B		34.00:1			AC8	593

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
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RNAV (GPS) RWY 17

AMDT NO.
2

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STATE
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AIRPORT ELEVATION
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FACILITY
RNAV

FINAL: LNAV/VNAV

FROM
WARSH

TO
RW17

RNP
0.30

DISTANCE
5.08

PAT

MAP
DA

HAT
514

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC			MA264	857

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM
WARSH

TO
RW17

RNP
0.30

DISTANCE
5.08

PAT

MAP
RW17

HAT
577

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	630139.00N/1553627.00W	653	215	8	4B	250					920

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
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PROCEDURE NAME
RNAV (GPS) RWY 17

AMDT NO.
2

CITY
MC GRATH

STATE
AK

AIRPORT ELEVATION
343

FACILITY
RNAV

HOLD-IN-LIEU OF PT

FROM
TIGUE **TO**
P-6

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
P-6

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	632157.00N/1553530.00W	3494	215	8	4B	1000				PR120 AT286	4900
TERRAIN	632157.00N/1553530.00W	3293 (3300)								AS1500	4800

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

MISSED APPROACH: LPV

FROM
DA **TO**
TIGUE

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
0.30 406

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4900
AAO	631342.00N/1554021.00W	1555	215	8	4B	1000					2600
TERRAIN	631236.00N/1553827.00W	1040 (1000)								AS1500	2500

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:



MISSED APPROACH: LNAV/VNAV

FROM DA **TO** TIGUE

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
696

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	630021.00N/1554151.00W	1021	215	8	4B		ASC				4900
AAO	631342.00N/1554021.00W	1555	215	8	4B	1000					2600
TERRAIN	631236.00N/1553827.00W	1040 (1000)								AS1500	2500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM RW17 **TO** TIGUE

RNP
0.30

DISTANCE

PAT

MAP

HAT

HMAS
820

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4900
AAO	631342.00N/1554021.00W	1555	215	8	4B	1000					2600
TERRAIN	631236.00N/1553827.00W	1040 (1000)								AS1500	2500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MCG/PAMC

PROCEDURE NAME
RNAV (GPS) RWY 17

AMDT NO.
2

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RNAV

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (02-000373)	625648.00N/1553328.00W	1.30	577	462	250	50	4D	300		SI/AC50	920
CATEGORY B											
TOWER (02-000373)	625648.00N/1553328.00W	1.82	577	462	250	50	4D	300		SI/AC50	920
CATEGORY C											
TREE (02-142417)	625354.89N/1553517.74W	2.86	1117	1143	20	3	1A	300			1460
CATEGORY D											
TREE (02-142167)	625341.08N/1553536.00W	3.75	1277	1319	20	3	1A	300			1620

CIRCLING REMARKS:

MSA/ESA

CENTER **RADIUS**

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

AVERAGE VEGETATION HEIGHT 60' PER WESTERN FPT.



AIRPORT ID
MCG/PAMC

PROCEDURE NAME
RNAV (GPS) RWY 17

AMDT NO.
2

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FACILITY
RNAV

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZAN ARTCC, MCG FSS

WX SERVICE ASOS	LOCATION MCG/PAMC	HRS OPERATION 24	ALTIMETER SOURCE MCG/PAMC	DISTANCE 0	WMSCR Y	ADJUSTMENTS 0
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BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
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WX REMARKS:

BACK-UP ALTIMETER ADJUSTMENTS NOT COMPUTED; NO SUITABLE ALTIMETER SOURCE LOCATED WITHIN 75 NM OF PAMC.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW05 - MIRL		
RW23 - MIRL		
RW35 - REIL (PCL), MIRL (PCL), VASI-4L (PCL)	NPI-G	
RW17 - MIRL (PCL), REIL (PCL), VASI-4L (PCL)	PIR-G	

GLIDESLOPE ANGLE 3.00	ELEV RWY THRESHOLD 342.7	TCH 38.0	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE 3.00	TCH 38.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE 546
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW -21C	CRITICAL HIGH +54C	ACT -43C	APT ISA +14.32C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 3-YEAR HISTORY (2018-2020).
CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA.
DESCENT RATE (FPM): STANDARD TEMP 959 HIGH TEMP 1265.

"VISUAL PORTION OF FINAL" PENETRATIONS



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.51
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	178.91
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	500
DISTANCE FROM	THLD	TO 1500FT POINT	5.08
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.14
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	178.91
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	500

THRESHOLD COORDINATES (IF STR-IN)

625727.75N/1553618.80W

ARP COORDINATES

625710.02N/1553625.37W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 35 DISTANCE 0.59 NM

FAF COORDINATES

630231.85N/1553631.50W

FIX NAME COORDINATES

REMARKS

THLD DISPLACED 546FT, ACTUAL COORDINATES: 625733.12N/1553619.03W

PART E: PREPARED BY

NAME

JOHN BORDY (GIORGIA FERREIRA)

OFFICE

AJV-A33

DATE

11/19/2024

TITLE

AERONAUTICAL INFORMATION SPECIALIST

