

**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> 5A6	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 3	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> WINONA	<u>STATE</u> MS
<u>AIRPORT ELEVATION</u> 364	<u>TDZE</u> 360	<u>SUPERSEDED</u> RNAV (GPS) RWY 3	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 1W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2010
			<u>CANCEL/SUSPEND</u>	

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 300/30 CW 120/30	NOPT	GUCEY	IF/IAF	2500
2. 120/30 CW 300/30		GUCEY	IF/IAF	2500

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>
GUCEY	IF/IAF	RASME		TF	FB	1.00	029.62	6.00	2000
RASME	FAF	RW03	MAP	TF	FO	0.30	029.65	5.09	
RW03	MAP	764 MSL		CA			029.65		
764 MSL		GUNKE		DF	FO	1.00			2400

MISSED APPROACH

MAP:

LNAV: RW03

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2400 DIRECT GUNKE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- HOLD SW GUCEY, RT, 029.62 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 3000.
- FAC: 029.65 FAF: RASME DIST FAF TO MAP: 5.09 DIST FAF TO THLD: 5.09
- MIN ALT: GUCEY 2500, RASME 2000
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: OM: MM: IM:
- MIN GP INCPT: GP ALT AT FAF:
- GP ANGLE: 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH:
- MSA FROM:

QUALITY
34
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GNF ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 209.75 INBOUND.
CHART FAS OBST: 716 TOWER (28-001995) 332422N/0894603W.
RASME TO RW03: 3.00/30.

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
LNAV MDA	1040	1	680	1040	1	680	1040	2	680		NA				

CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED GUCEY TO RASME SEGMENT RNP VALUE FROM "0.50" TO "1.0" - IAW 8260.19J, 8-6-4A(6)B.
2. INCORPORATED PREVIOUS A1A AND A1B P-NOTAMS INTO FORM.
3. PROFILE LINE 2: ADDED "MAX 3000" – IAW 8260.19J 8-6-7B(2).
4. PROFILE LINE 7: ADDED "20:1 IS NOT CLEAR" – NO SURVEY, ASSUMED PENETRATIONS.
5. PBN REQUIREMENTS: CHANGED FROM "RNP APCH" TO "RNP APCH – GPS" – IAW 8260.19J 8-6-8D(5).
6. CHANGED "CHART NOTE: USE GRENADA ALTIMETER SETTING; WHEN NOT RECEIVED, USE GREENWOOD ALTIMETER SETTING" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GNF ALTIMETER SETTING – LOCAL ALTIMETER ESTABLISHED.
7. CHANGED "CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT" TO "CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" – IAW 8260.19J 8-6-10M(2).
8. ADDITIONAL FLIGHT DATA: REMOVED "CHART GRENADA AWOS" – LOCAL ALTIMETER ESTABLISHED.



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZME, AIRPORT MANAGER

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

Digitally signed by

CASIMIR L TABAKA

Oct 21, 2024

DEVELOPED BY

JOSEPH L. ZEDER (ROBERT A. SWINSON)

OFFICE

DATE

Digitally signed by

CASIMIR L TABAKA

Oct 21, 2024

AJV-A432

05/15/2024

APPROVED BY

JOSEPH L. ZEDER

OFFICE

DATE

TITLE

Digitally signed by

CASIMIR L TABAKA

Oct 21, 2024

AJV-A432

MANAGER



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
5A6	RNAV (GPS) RWY 3	1C	WINONA	MS	364	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
300/30 CW 120/30

TO
GUCEY

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>
TOWER (28-001031)	333434.00N/0902234.00W	1149	500	50	5D	1000				AT351	2500
TERRAIN	330739.00N/0891839.00W	712 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
120/30 CW 300/30

TO
GUCEY

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>
TOWER (28-000860)	332525.00N/0892413.00W	1444	500	50	5D	1000					2500
TERRAIN	330739.00N/0891839.00W	712 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:



INTERMEDIATE

FROM

GUCEY (IF/IAF)

TO

RASME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	6.00										
<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	331757.00N/0895200.00W	719	164	98	4E	500					1300
TERRAIN	331757.00N/0895200.00W	519 (500)								AS1500	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

RASME

TO

RW03

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	5.09		RW03		680						
<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>
TOWER (28-001995)	332421.70N/0894603.42W	716	20	10	1B	250				RA74	1040

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RA ADJUSTMENT RETAINED, SHOULD BE REMOVED NEXT FULL AMENDMENT.



HOLD-IN-LIEU OF PT

FROM

GUCEY

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
<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>
TOWER (28-002050)	331429.75N/0894806.60W	795	20	3	1A	1000				AT705	2500
TERRAIN	331757.00N/0895200.00W	519 (500)								AS1500	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW03

TO

GUNKE

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 866			
<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				2400
AAO	333332.72N/0893739.69W	759	50	20	2C	1000					1800
TERRAIN	333332.72N/0893739.69W	559 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MSA/ESA

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

MEM ARTCC, GWO FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3PT	5A6	24	5A6	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3PT	GNF	24	GNF	22.27	Y	74

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
5A6 364, GNF 208
RA = 73.1.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW03 - MIRL (PCL), PAPI-2L (PCL)		BSC-F	
RW21 - MIRL (PCL), PAPI-2L (PCL)		BSC-F	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					4.00	30.0

FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:	QUALITY 34 CHECKED

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT VEGETATION USED PER FPT.

PROCEDURE NA AT NIGHT - UNLIT 20:1 PENETRATIONS.

LP APPROACH NOT ESTABLISHED - NULL MDA OR VISIBILITY BENEFIT.

34:1, 20:1 ASSUMED PENETRATED - NO SURVEY.

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	3.42
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	028.65
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	500
DISTANCE FROM	THLD	TO 1500FT POINT	5.09
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	028.65
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	500

THRESHOLD COORDINATES (IF STR-IN)	332736.60N/0894400.11W
ARP COORDINATES	332753.96N/0894348.78W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 21 DISTANCE 0.33 NM
FAF COORDINATES	332307.87N/0894655.32W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
JOSEPH L. ZEDER (ROBERT A. SWINSON)	AJV-A432	05/15/2024	AERONAUTICAL INFORMATION SPECIALIST

