

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> STANLEY MUNI	<u>AIRPORT ID</u> K08D	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> STANLEY	<u>STATE</u> ND	
<u>AIRPORT ELEVATION</u> 2245	<u>TDZE</u> 2244	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 07/05/2007	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 188/30 CW 008/30	NOPT	EXIHO	IF/IAF	4300
2. 008/30 CW 098/30		ULMUW	IAF	4300
3. 098/30 CW 188/30		ISROQ	IAF	4300

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>
ISROQ	IAF	EXIHO	NOPT	TF	FB	1.00	188.37	5.00	4300
ULMUW	IAF	EXIHO	NOPT	TF	FB	1.00	008.31	5.00	4300
EXIHO	IF/IAF	OZRAJ		TF	FB	1.00	278.34	5.00	3900
OZRAJ	FAF	ZEKAV/2.10 NM TO RW27		TF	FB	0.30	278.25	2.99	
ZEKAV/2.10 NM TO RW27		RW27	MAP	TF	FO	0.30	278.25	2.10	
RW27	MAP	2620 MSL		CA			278.25		
2620 MSL		EWXUR		DF	FO	1.00			5000

MISSED APPROACH

MAP:

LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5000 DIRECT EWXUR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD E EXIHO, RT, 278.34 INBOUND, 4300 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 278.25 FAF: OZRAJ DIST FAF TO MAP: 5.09 DIST FAF TO THLD: 5.09

4. MIN ALT: EXIHO 4300, OZRAJ 3900, ZEKAV/2.10 NM TO RW27 2940

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

6. MIN GP INCPT: GP ALT AT FAF :

7. GP ANGLE: 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH:

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

2517 AAO 481554N/1021645W
CHART CIRCLING ICON.
OZRAJ TO RW27: 3.00/40.
CHART FAS OBST: 2308 ELEVATOR 481802N/1022303W.
HOLD W, RT, 097.97 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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	2620	1	376	2620	1	376		NA			NA				
CIRCLING	2720	1	475	2940	1	695		NA			NA				



CHANGES - REASONS

- 1. LOWERED LNAV MDA/HAT FROM 2740/496 TO 2620/376 - RECALCULATED MDA WITHOUT REMOTE ALTIMETER ADJUSTMENT/LOCAL WX NOW AVAIL.
- 2. UPDATED CIRCLING MDA/HAA/VIS CAT A/B FROM 2900/655/1 TO CAT A 2720/475/1 CAT B 2940/695/1 - OBSTACLE EVALUATION WITH NEW CIRCLING RADII AND CALCULATED CMDA WITHOUT REMOTE ALTIMETER ADJUSTMENT/LOCAL WX NOW AVAIL/VIS CK.
- 3. UPDATED UNNAMED SDF AT 1.80NM TO RW27/2800 TO ZEKAV/2.10 NM TO RW27/2940 - ALL NAV FIXES MUST BE NAMED IAW 8260.19H/RECALCULATED OPTIMUM ALTITUDE AND LOCATION WITH RA ADJUSTMENT.
- 4. UPDATED CHART PROFILE NOTE FROM VGSI AND DESCENT ANGLES NOT COINCIDENT TO VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) -NOTE FORMAT IAW 8260.19H
- 5. ADDED PBN REQUIREMENTS NOTE: RNP APCH. - IAW 8260.19H
- 6. REMOVED CHART NOTES: GPS OR RNP-0.3 REQUIRED AND DME/DME RNP-0.3 NA - NO LONGER REQUIRED.
- 7. ADDED CHART CIRCLING ICON - NEW RADIUS APPLIED.
- 8. UPDATED FAS OBSTACLE - OBSTACLE EVALUATION.
- 9. UPDATED HIL; ADDED MAX ALT 6000 - IAW 8260.19H
- 10. UPDATED ALTERNATE FROM NA TO STANDARD - LOCAL ALTIMETER SOURCE AWOS-3
- 11. ADDED NOTE: PROCEDURE NA AT NIGHT - NO SURVEY DATA; UNABLE TO VERIFY VISUAL SURFACE CLEAR.
- 12. CHANGED 34:1 IS CLEAR TO 34:1 IS NOT CLEAR AND ADDED 20:1 IS NOT CLEAR - NO SURVEY DATA; UNABLE TO VERIFY VISUAL SURFACE CLEAR.
- 13. ADDED RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - NO SURVEY DATA; UNABLE TO VERIFY VISUAL SURFACE CLEAR.



<u>AIRPORT</u> STANLEY MUNI	<u>AIRPORT ID</u> K08D	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> STANLEY	<u>STATE</u> ND
<u>COORDINATED WITH:</u>					
A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> AMGR, ZMP ARTCC					
<u>FLIGHT CHECKED BY</u>		<u>OFFICE</u>	<u>DATE</u>		
<u>DEVELOPED BY</u>		<u>OFFICE</u>	<u>DATE</u>		
HEIDI SNIDER		AJV-5423	07/10/2018		
<u>APPROVED BY</u>		<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
JULIE MORGAN		AJV-5420		MANAGER	



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

<u>AIRPORT</u> STANLEY MUNI	<u>AIRPORT ID</u> K08D	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>AMDT NO.</u> 1	<u>CITY</u> STANLEY	<u>STATE</u> ND	<u>AIRPORT ELEVATION</u> 2245	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
188/30 CW 008/30

TO
EXIHO

RNP

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (38-000711)	480314.00N/1012605.00W	2879	250	50	4D	1000				AT421	4300
2.TERRAIN	482357.00N/1020318.00W	2412 (2400)								AS1500	3900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

LEFT BASE AREA

FROM
008/30 CW 098/30

TO
ULMUW

RNP

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.AAO	475348.00N/1024933.00W	2966	250	125	4E	1000					4000
4.TERRAIN	475348.00N/1024933.00W	2766 (2800)								AS1500	4300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



INITIAL

FROM
ULMUW

TO
EXIHO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
	5.00				

[illegible]

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT
REMARKS:

INTERMEDIATE

FROM

TO
OZRAJ

EXIHO (IF/IAF)

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
	5.00				

[illegible]

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT
REMARKS:



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											
18.TANK (38-021007)	481914.94N/1022333.98W	1.30	475	2403	50	20	2C	300			2720
CATEGORY B											
19.TOWER (38-020156)	481908.21N/1022156.22W	1.84	695	2578	250	50	4D	300		AC50	2940

CIRCLING REMARKS:

CENTERRADIUS

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

MOT APP CON, ZMP ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3	K08D	24	K08D	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	KMOT	24	KMOT	45.68	Y	188

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
K08D 2245 KMOT 1658
RA=187.29

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW09 - MIRL (PCL)		NPI-G	
RW27 - MIRL (PCL), PAPI-2L (PCL)		NPI-G	



RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LNAV
20:1	
NO SURVEY DATA; UNABLE TO VERIFY VISUAL SURFACES CLEAR	

and/or

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

VDP NOT ESTABLISHED - 20:1 ASSUMED PENETRATED; NO SURVEY AVAIL.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE MINOT ALTIMETER SETTING AND INCREASE MDA 200 FT AND VISIBILITY CIRCLING CAT B 1/4 SM.

50' VEGETATION APPLIED.

ORDER 8260.3 CHAPTER 2 APPLIED TO 2517 AAO 481554N/1021645W.

PROCEDURE NA AT NIGHT, UNABLE TO VERIFY VISUAL SURFACE CLEAR.
ORDER 8260.3, VOLUME 1, 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	3.09
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.96
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	288.25
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2284
DISTANCE FROM	THLD	TO 1500FT POINT	4.89
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.00
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	288.25
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	2284

THRESHOLD
COORDINATES
(IF STR-IN)481756.88N/1022355.46W

ARP COORDINATES481802.88N/1022422.87W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 9 DISTANCE 0.32 NM

FAF
COORDINATES481621.53N/1021641.07W

FIX NAME
COORDINATES

REMARKS
NO ADDITIONAL AIRSPACE REQUIRED.



<u>AIRPORT</u>	<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>
STANLEY MUNI	K08D	RNAV (GPS) RWY 27	1	STANLEY	ND	2245	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
HEIDI SNIDER	AJV-5423	07/10/2018	AERONAUTICAL INFORMATION SPECIALIST

