document A

RNAV (GPS) RWY 31
CASTLE (MER)

WAAS CH 87110 W31A	APP CRS 306°	Rwy ldg 11802 TDZE 181 Apt Elev 190

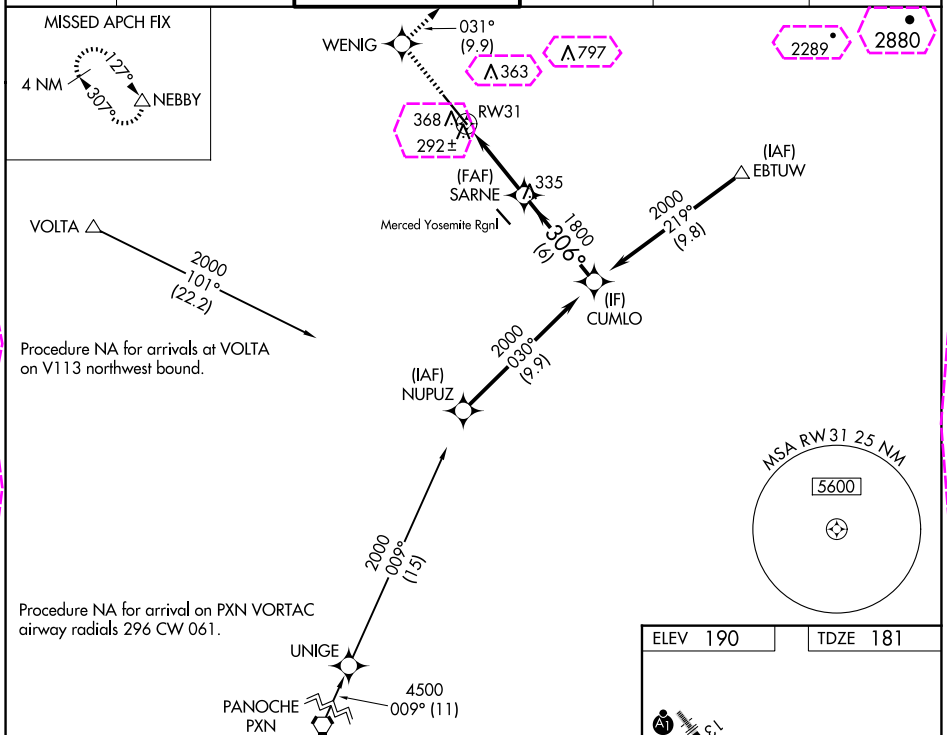
RNP APCH.

Circling NA southwest of Rwy 13-31. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inoperative ALS, increase LNAV/VNAV all Cats visibility to ⅞ SM and LNAV Cats C/D visibility to 1 SM.

ALSF-1

MISSED APPROACH: Climb to 4000 direct WENIG and on track 031° to NEBBY and hold, continue climb-in-hold to 4000.

ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	123.0 L



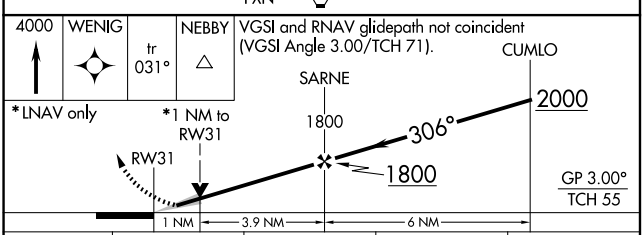
Procedure NA for arrivals at VOLTA on V113 northwest bound.

Procedure NA for arrival on PXN VORTAC airway radials 296 CW 061.

4000	WENIG	tr 031°	NEBBY

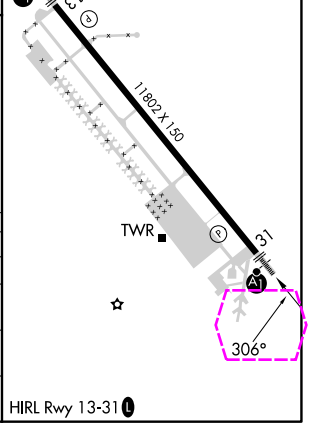
*LNAV only *1 NM to RW31

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
LPV DA	381-½ 200 (200-½)			
LNAV/VNAV DA	498-½ 317 (400-½)			
LNAV MDA	560-½ 379 (400-½)		560-⅝ 379 (400-⅝)	
C CIRCLING	660-1 470 (500-1)		720-1½ 530 (600-1½)	800-2 610 (700-2)

ELEV 190 TDZE 181



HIRL Rwy 13-31 L

SW-2, 10 JUL 2025 to 07 AUG 2025

SW-2, 10 JUL 2025 to 07 AUG 2025

document B

WAAS CH 87110 W31A	APP CRS 306°	Rwy Ldg 11802 TDZE 181 Apt Elev 190

RNAV (GPS) RWY 31
CASTLE (MER)

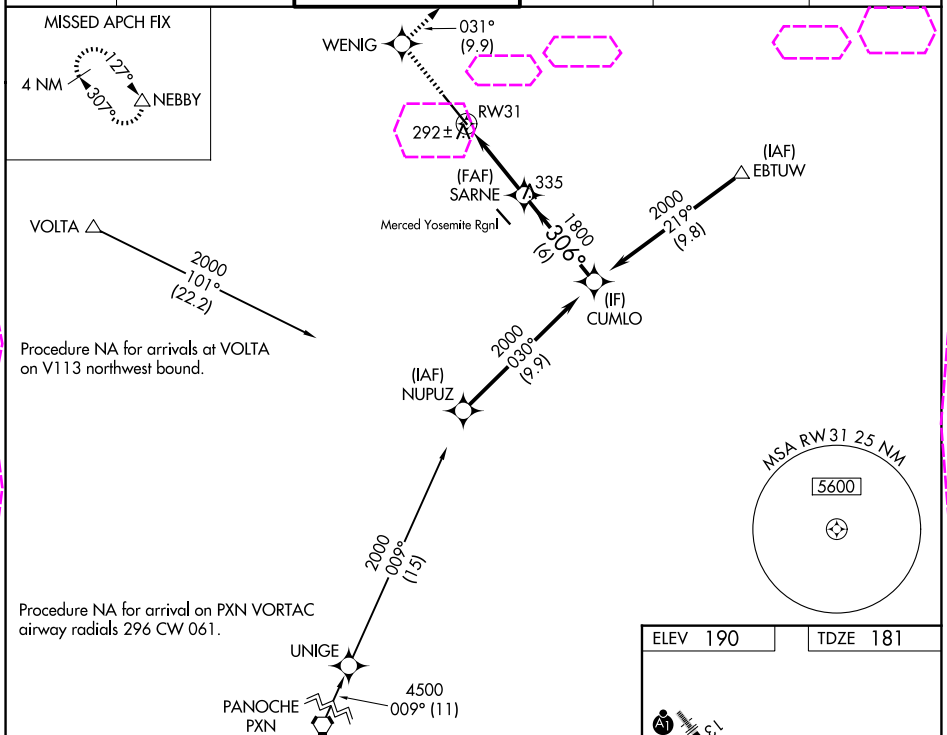
RNP APCH.

Circling NA southwest of Rwy 13-31. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inoperative ALS, increase LNAV/VNAV all Cats visibility to ⅞ SM and LNAV Cats C/D visibility to 1 SM.

ALSF-1

MISSED APPROACH: Climb to 4000 direct WENIG and on track 031° to NEBBY and hold, continue climb-in-hold to 4000.

ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	123.0 L



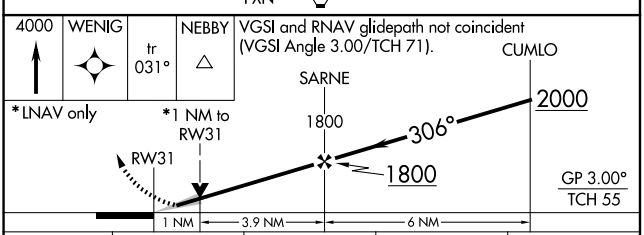
Procedure NA for arrivals at VOLTA on V113 northwest bound.

Procedure NA for arrival on PXN VORTAC airway radials 296 CW 061.

4000	WENIG	tr 031°	NEBBY

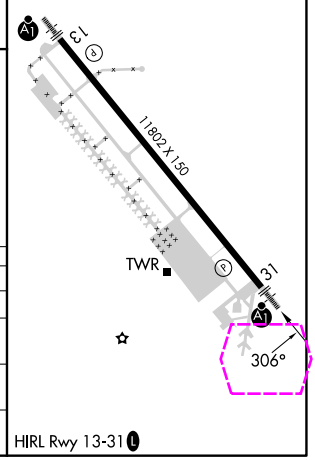
*LNAV only *1 NM to RW31

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
LPV DA	381-½ 200 (200-½)			
LNAV/VNAV DA	498-½ 317 (400-½)			
LNAV MDA	560-½ 379 (400-½)		560-⅝ 379 (400-⅝)	
CIRCLING	660-1 470 (500-1)		720-1½ 530 (600-1½)	800-2 610 (700-2)

ELEV 190 TDZE 181



HIRL Rwy 13-31 L

SW-2, 07 AUG 2025 to 04 SEP 2025

SW-2, 07 AUG 2025 to 04 SEP 2025