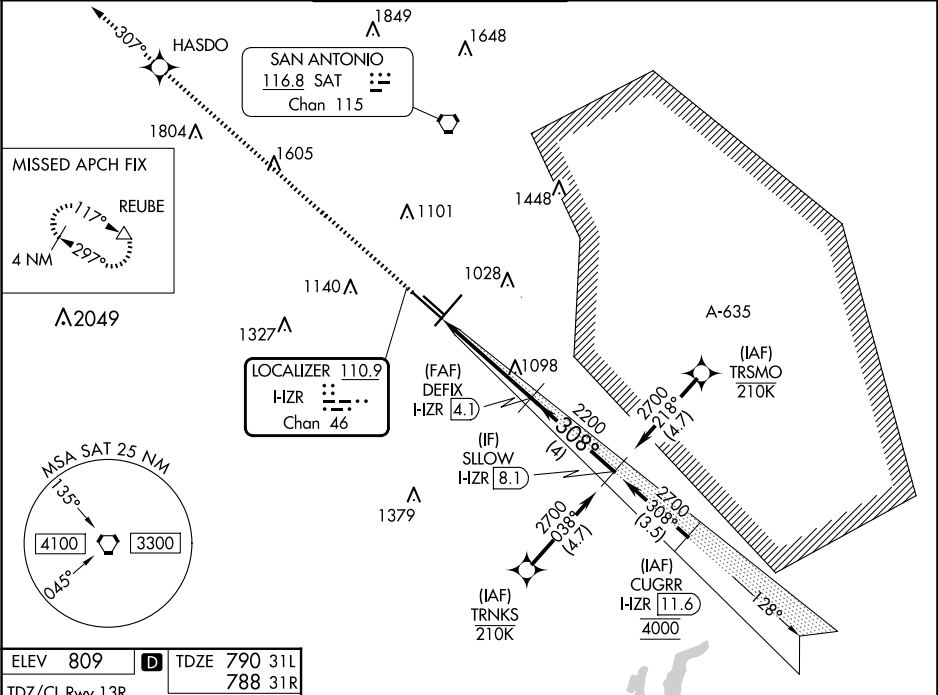


LOC/DME I-ZR 110.9 Chan 46	APP CRS 308°	Rwy 31L Idg 8502 TDZE 790 Apt Elev 809	Rwy 31R Idg 5519 TDZE 788 Apt Elev 809
--	------------------------	---	---

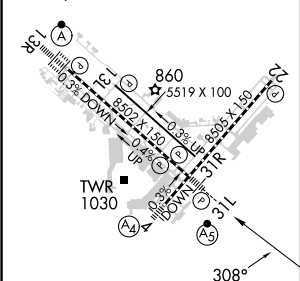
ILS or LOC RWY 31L

SAN ANTONIO INTL (SAT)

RNP APCH - GPS.			MALSR 	MISSED APPROACH: Climb to 4200 direct HASDO and track 307° to REUBE and hold.	
Aircraft not GPS equipped - RADAR required for procedure entry. DME required.					
▼ ▲ Circling NA northwest of Rwy's 4 and 13R. * RVR 1800 authorized with use of FD or AP or HUD to DA.					
D-ATIS 118.9	SAN ANTONIO APP CON 125.1 307.0	SAN ANTONIO TOWER 119.8 257.8	GND CON 121.9 348.6	CLNC DEL 126.7	CPDLC



ELEV 809	D	TDZE 790 31L 788 31R
TDZ/CL Rwy 13R REIL Rwys 13L, 22 and 31R HIRL Rwys 4-22 and 13R-31L MIRL Rwy 13L-31R		



FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26
CIRCLING					

4200 HASDO		tr REUBE		VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 82).	
H-ZR DME ANTENNA		DEFIX I-ZR 4.1		SLOW I-ZR 8.1	
H-ZR 0.2		H-ZR 1.4		2200 308°	
1.5 NM		2.8 NM		4 NM	
CATEGORY A		CATEGORY B		CATEGORY C	
S-ILS 31L *		990/24		200 (200-½)	
S-LOC 31L		1360/24		570 (600-½)	
SIDESTEP 31R		1360-1		572 (600-1)	
CIRCLING		1360-1		551 (600-1)	