

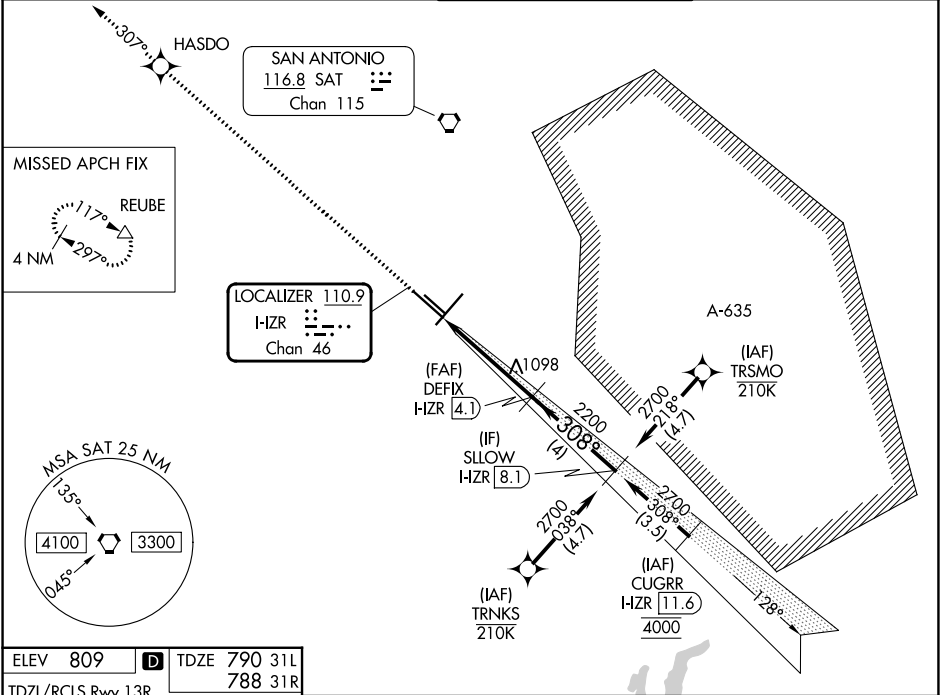
LOC/DME I-ZR 110.9 Chan 46	APP CRS 308°	Rwy 31L Ldg 8502 TDZE 790 Apt Elev 809	Rwy 31R Ldg 5519 TDZE 788 Apt Elev 809
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ILS or LOC RWY 31L
SAN ANTONIO INTL (SAT)

RNP APCH - GPS.

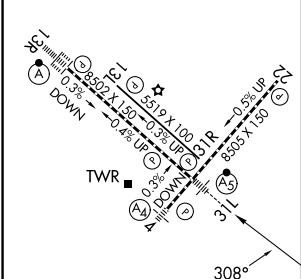
 Circling NA northwest of Rwy 4 and southwest of Rwy 13R. * RVR 1800 authorized with use of FD or AP or HUD to DA.	MALSR 	MISSED APPROACH: Climb to 4200 direct HASDO and track 307° to REUBE and hold.
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D-ATIS 118.9	SAN ANTONIO APP CON 125.1 307.0	SAN ANTONIO TOWER 119.8 257.8	GND CON 121.9 348.6
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ELEV 809	D	TDZE 790 31L 788 31R
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TDZL/RCLS Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R



4200	HASDO	tr 307°	REUBE	VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 82).
H-ZR DME ANTENNA	H-ZR	DEFIX	SLOW H-ZR	
H-ZR 0.2	H-ZR 1.4	H-ZR 4.1	H-ZR 8.1	
1.5 NM	2.8 NM	4 NM		
CATEGORY	A	B	C	D
S-ILS 31L *	990/24 200 (200-½)			
S-LOC 31L	1360/24 570 (600-½)		1360-1¼ 570 (600-1¼)	
SIDESTEP 31R	1360-1 572 (600-1)		1360-1½ 572 (600-1½)	
CIRCLING	1360-1 551 (600-1)		1420-1¾ 611 (700-1¾)	
			1520-2¼ 711 (800-2¼)	

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