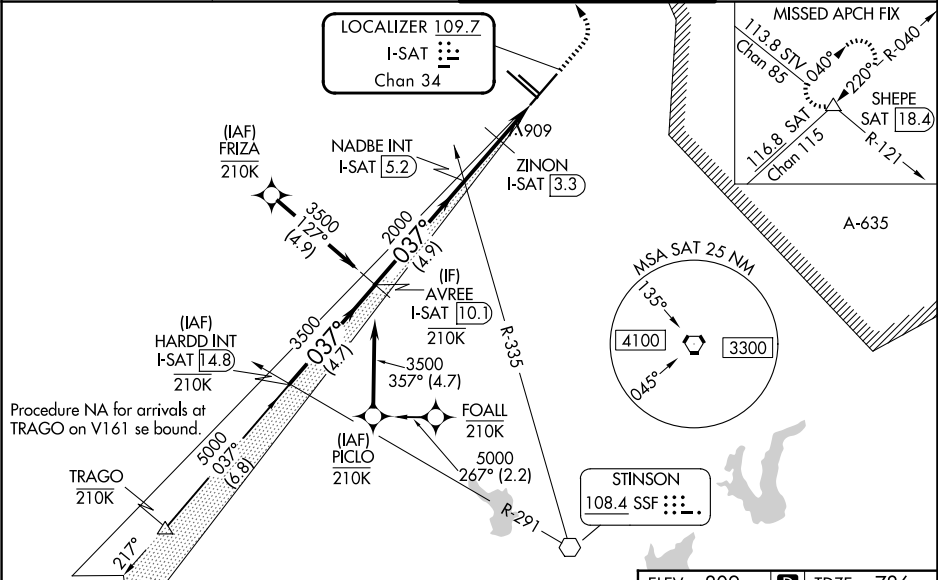


LOC/DME I-SAT 109.7 Chan 34	APP CRS 037°	Rwy Ldg 8505 TDZE 786 Apt Elev 809	ILS or LOC RWY 4 SAN ANTONIO INTL (SAT)
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RNP APCH-GPS. From TRAGO or PICLO or FRIZA.		MALS 	MISSED APPROACH: Climb to 1700 then climbing left turn to 3500 on heading 025° and on SAT VORTAC R-040 to SHEPE INT/SAT 18.4 DME and hold.
Aircraft not GPS equipped - RADAR required for procedure entry.			
 NA	Circling NA northwest of Rwy's 4 and 13R. Autopilot coupled approach NA below 1189. Inop table does not apply to S-ILS 4. For inop ALS, increase S-LOC 4 Cat C/D visibility to RVR 6000.		

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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VGSi and ILS glidepath not coincident (VGSi Angle 3.00/TCH 79).					ELEV 809	TDZE 786
HARDD INT I-SAT 14.8 AVREE I-SAT 10.1 NADBE INT I-SAT 5.2 ZINON I-SAT 3.3 I-SAT 2.4 I-SAT 1.6					TDZL/RCLS Rwy 13R REIL Rws 13L, 22 and 31R HIRL Rws 4-22 and 13R-31L MIRL Rwy 13L-31R	
5000 037° 3500 2000 1200					See planview for multiple IF locations.	
GS 3.00° TCH 56						
4.7 NM 4.9 NM 1.9 NM 0.9 NM 0.8 NM						
CATEGORY	A		B	C	D	
S-ILS 4	986/40		200 (200-¾)			
S-LOC 4	1200/40	414 (400-¾)	1200/50		414 (400-1)	
CIRCLING	1280-1 471 (500-1)	1340-1 531 (600-1)	1420-1¾ 611 (700-1¾)	1520-2¼ 711 (800-2¼)		
ZINON FIX MINIMUMS (DME REQUIRED)						
S-LOC 4	1120/40		334 (400-¾)			
CIRCLING	1280-1 471 (500-1)	1340-1 531 (600-1)	1420-1¾ 611 (700-1¾)	1520-2¼ 711 (800-2¼)		
FAF to MAP 3.6 NM						
Knots 60 90 120 150 180						
Min:Sec 3:36 2:24 1:48 1:26 1:12						