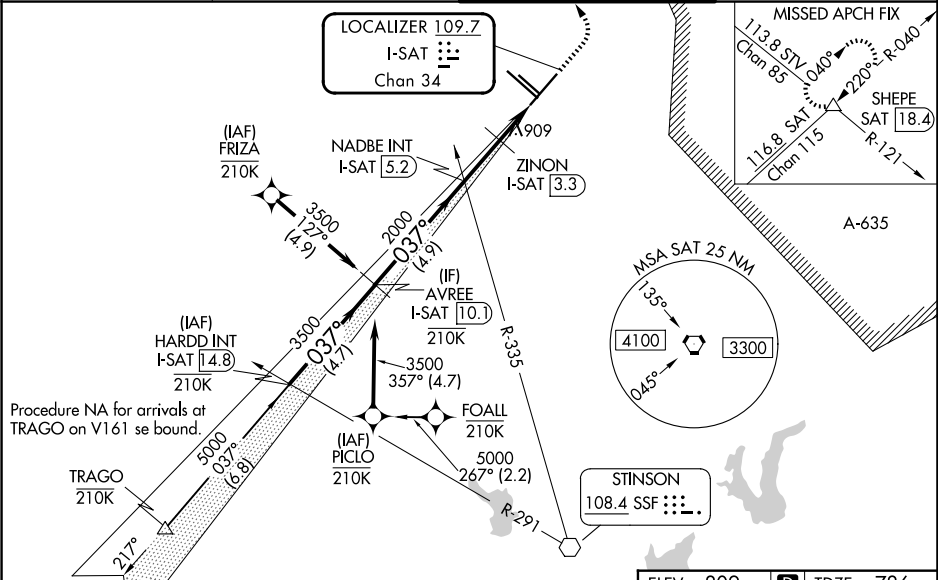


LOC/DME I-SAT 109.7 Chan 34	APP CRS 037°	Rwy Ldg 8505 TDZE 786 Apt Elev 809	ILS or LOC RWY 4 SAN ANTONIO INTL (SAT)
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RNP APCH-GPS. From TRAGO or PICLO or FRIZA.		MALS 	MISSED APPROACH: Climb to 1700 then climbing left turn to 3500 on heading 025° and 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		SHEPE		
5000 037°		NADBE INT I-SAT 5.2		ZINON I-SAT 3.3		
3500		2000		1200		
GS 3.00° TCH 56		4.7 NM		4.9 NM		
2000		1.9 NM		0.9 NM		
1200		0.8 NM				
See planview for multiple IF locations.						
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	

TDZL/RCLS Rwy 13R

REIL Rwys 13L, 2D and 31R

HIRL Rwys 4-22 and 13R-31L

MIRL Rwy 13L-31R