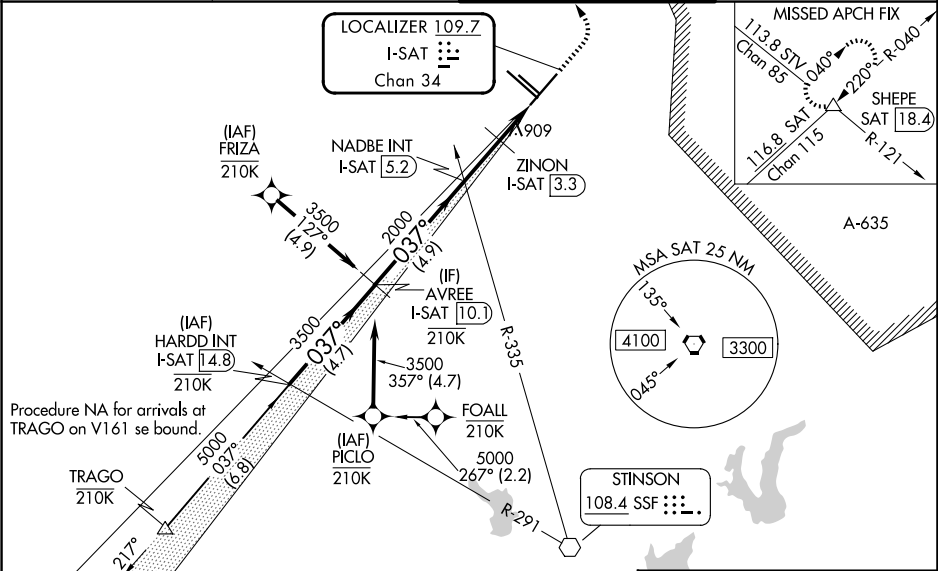


LOC/DME I-SAT 109.7 Chan 34	APP CRS 037°	Rwy Ldg 8505 TDZE 786 Apt Elev 809	ILS or LOC RWY 4 SAN ANTONIO INTL (SAT)
---	------------------------	---	--

RNP APCH-GPS. From TRAGO or PICLO or FRIZA.		MALSS 	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
------------------------	---	---	-------------------------------



VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 79).					ELEV 809	D	TDZE 786	
HARDD INT I-SAT 14.8					3500	SAT R-040	SHEPE $\triangle$	
AVREE I-SAT 10.1					hdg 025°			
NADBE INT I-SAT 5.2					See planview for multiple IF locations.			
ZINON I-SAT 3.3					I-SAT 2.4	I-SAT 1.6		
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		