INSTRUMENT AERODROME ELEV 5558' RADAR APP S 124.50 **APPROACH** E 124.50 115.20 (O.R. TAMBO INTERNATIONAL) **HEIGHTS RELATED TO** W 123.70 SMC 121.90 CHART **ILS RWY 21R** THR RWY 21R - ELEV 5505 TWR E 118.60 W 118.10 CAT A - D RADAR VECTORS **ELEV, ALT & HGT IN FEET** VOR and DME REQUIRED DIST IN NM ATZ FASK 25 **BRG ARE MAG** 7600' ALT FAKT 50'S 80 VAR 18°W (2010) WATERKLÖOF VOR/DME 116.9 JMA FAWK 8400 FL195 7800 **CH 116X** C 7600' ALT (IF) 12.7 DME WKV :::= L124.50/134.40 7600' ALT C SO 25°50'00.04"S GND JBI 028°13'13.31"E 4903 ATZ FAGO MSA 25 NM (FAP) 5473 7000' ALT JSV VOR CTR FALA 7.7 DME GND 6500' ALT 26 JBI 00'S **JOHANNESBURG** DVOR/DME 115.2 -TMA FAOR-**CH 99X** JSV :::-ΓMA (A) FAJ 26°09'25.63"S 7600' AL/ 028°13'51.70"E 6500' AL - 5579' THR 21R - JSV: 2.8NM FAOR CTR FAOR 7600' ALT GND 6003 MISSED APCH COM FAILURE PROCEDURE 6655 26 Climb to 8000 ALT. Maintain RWY track 6172 10'S to 6.8 DME JBI, then turn right onto HDG 350° (MAX 250KT IAS). Cross 6.8 DME JBI at 7000 ALT or above. 6500' ALT 6.8 DME Crossing R225 WKV turn right to JOHANNESBURG-JBI intercept R230 WKV (INBD) and reduce FAGM **ILS/DME 110.9** speed to MAX 220KT IAS when JBI ::::: established. -TMA FAOR-26°06'53.43"S At 3 DME WKV turn right onto HDG 120° FL110 7600' ALT 028°14'43.29"E Crossing R027 JSV turn right onto HDG .5873 5557' 184° to intercept the LOC RWY 21R. 5860 THR 21R- JBI GP: 0.18NM Complete a straight-in ILS APCH and land RWY 21R. 10 NM -TMA FAOR FL110 7600' ALT 26 7600' ALT NOT TO SCALE 20'S 028°00'E 028°10'E 028°20'E 028°30'E JBI DMF 7.7 7 5 2 6 3 ADVISORY ALT (HGT) **8000** (2495) 7780 (2275) **7510** (2005) 7190 (1685) **6860** (1355) 6480 (975) 6150 (645) TRANSITION ALT 8000 INA ALT: from STAR or RADAR VECTORING onto the FAP TRANSITION LEVEL ATC FAP MISSED APPROACH: 7.7 DME JBI 8000 From STAR or Climb to 8000FT ALT. Maintain RWY track .0 DME JBI RADAR to 6.8 DME JBI then turn right onto 2495 VECTORS HDG 350° (MAX 250KT IAS), Cross 6.8 DME JBI at 7000FT ALT or above. Crossing R225 WKV turn right to intercept R230 WKV (INBD) for 6860 radar vectoring onto the (1355)Profile ILS RWY 21R. IILS RDH 53 THR ELEV 5505 ALT/ NM to/from THR RWY 21R OCA (H) GS KT 80 100 120 Α В C D/Di 160 Advisory FAP to THR 5:45 4:36 3:50 3:17 2:53 M:S With 3.7% **5705** (200) **5705** (200) **5705** (200) **5705** (200) CAT I Rate of descent **FPM** 425 531 637 743 849 5605 (100) 5605 (100) 5605 (100) 5605 (100) GS APCH Gradient CAT II Straight-in KT 120 140 160 180 200 CHANGE Approach FPM 450 MAPT ROC (3.7%) 525 600 CAT I **6084** (579) **6091** (586) **6104** (599) **6111** (606) NOTE: CAT II **5986** (481) **5999** (494) **6012** (507) **6028** (523) 1. CAT II operations and minima must be approved by the SACAA. DME JBI (110.9 MHZ) co-located with Glide Path transmitter.
3. 3.7% Missed APCH climb gradient until reaching 7000 ALT.
4. Cross CTR BDRY 7600 ALT or above. WEST OF RWY 03/21 6070 (565) 6410 (905) Circling EAST OF RWY 03/21 **6050** (545) 6250 (745) MAX 250KT IAS during Missed APCH FFF: 23 JUN 16

JOHANNESBURG

ATIS 126.20