

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> GREENVILLE SPARTANBURG INTL	<u>AIRPORT ID</u> KGSP	<u>PROCEDURE NAME</u> ILS OR LOC RWY 22	<u>ORIGINAL/AMENDMENT</u> 6	<u>CITY</u> GREER	<u>STATE</u> SC	
<u>AIRPORT ELEVATION</u> 964	<u>TDZE</u> 964	<u>SUPERSEDED</u> ILS OR LOC RWY 22	<u>ORIGINAL/AMENDMENT</u> 5B	<u>DATED</u> 08/21/2014	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> I-LMJ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 DECEMBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
SPA VORTAC	IAF	RAYCE INT/SPA 9.41 DME	NOPT				269.84	9.41	3000
RAYCE INT/SPA 9.41 DME	IF	LYMEN INT					218.22	4.43 (I-LMJ)	2300

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.00 NM AFTER LYMEN INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT SPA VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. HOLD NE RAYCE, LT, 218.22 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 5400.
3. **FAC:** 218.22 **FAF:** LYMEN INT **DIST FAF TO MAP:** 4.00 **DIST FAF TO THLD:** 4.00
4. **MIN ALT:** RAYCE INT/SPA 9.41 DME 3000, LYMEN INT 2300, WIVET INT 1660*
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 1211
6. **MIN GS INCPT:** 2300 **GS ALT AT FAF :** LYMEN INT 2300 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 61.1
8. **MSA FROM:** SPA VORTAC 086-266 3600, 266-086 5200

EQUIPMENT REQUIREMENTS NOTES:



NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
*LOC ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SPA VORTAC AIRWAY RADIALS 231 CW 269 AND 081.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREENVILLE DOWNTOWN ALTIMETER SETTING: INCREASE DA TO 1193 FEET; INCREASE ALL MDAS 40 FEET AND VISIBILITY S-LOC 22 CATS C AND D TO RVR 3500 AND CIRCLING CAT D 1/4 SM.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 22 CAT C/D VISIBILITY TO RVR 5500.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
FAS OBST: 1060 TOWER 345618N/0821127W.
1144 AAO 345715N/0820958W.
HOLD S, RT, 014.00 INBOUND

MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD CAT D 800-2 1/4 - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 22	1164	2400	200	1164	2400	200	1164	2400	200	1164	2400	200			
S-LOC 22	1320	2400	356	1320	2400	356	1320	3000	356	1320	3000	356			
CIRCLING	1440	1	476	1440	1	476	1480	1 1/2	516	1700	2 1/4	736			



CHANGES - REASONS

1. DELETED FEEDER FROM GRD VORTAC TO LYMEN OM/INT - GRD VORMON DECOM; ATC REQUEST.
2. CHANGED ALL REFERENCES OF RAYCE FROM "RAYCE INT/SPA 8.26 DME" TO "RAYCE INT/SPA 9.41 DME AND "SPA VORTAC TO RAYCE COURSE/DIST FROM 284.16/8.26 TO 269.84/9.41 - MOVED RAYCE SW 2.48 NM; RETAINED FIX NAME FOR OPERATIONAL REQUIREMENTS PER ATC.
3. DELETED INITIAL FROM CARTT INT/SPA 8.29 DME TO RAYCE INT/SPA 8.26 DME (NOPT) - ATC REQUEST
4. CHANGED TERMINAL ROUTE SPA VORTAC TO RAYCE MINIMUM ALTITUDE FROM 2700 TO 3000 AND RAISED MISSED HOLDING ALTITUDE FROM 2700 TO 3000 - MATCH CROSSING ALTITUDE AT RAYCE WITH RNAV (GPS) RWY 22.
5. CHANGED ALL REFERENCES OF LYMEN FROM "LYMEN OM/INT" TO "LYMEN/INT", DELETED GS ALT AT OM 2601, AND ADDED GS ALT AT FAF "LYMEN INT 2300" - NAVAID DECOM.
6. CHANGED TERMINAL ROUTE RAYCE TO LYMEN DISTANCE FROM 6.04 TO 4.43 AND CHANGED ALTITUDE FROM 2700 TO 2300- MOVED RAYCE SW 2.48 NM AND MOVED LYMEN SW 5309 FT; SHORTENED INTERMEDIATE SEGMENT TO MAINTAIN IF CROSSING HEIGHT OF 3000 FT.
7. CHANGED LOC MAP FROM "4.88 MILES AFTER LYMEN OM/INT" TO "4.00 MILES AFTER LYMEN INT", CHANGED DIST FAF TO MAP AND DIST FAF TO THLD FROM 4.88 TO 4.00 - MOVED LYMEN SW 5309 FT.
8. CHANGED LYMEN ALTITUDE AND MIN GS INCPT ALTITUDE FROM 2700 TO 2300 - MOVED LYMEN SW 5309 FT.
9. DELETED THE ALTERNATE MISSED APPROACH WITHOUT REPLACEMENT - FRT NDB DECOM; PER ATC, GSP DOES NOT NEED AN ALTERNATE MA.
10. ADDED "CHART CIRCLING ICON" TO ADDITIONAL FLIGHT DATA - APPLIED NEW CIRCLING CRITERIA; IAW 8260.19H 8-6-10.T.
11. DELETED "CHART IN PLANVIEW: FRT NDB" - FRT NDB DECOM.
12. CHANGED CIRCLING CAT A/B MDA/HAA FROM 1420/456 TO 1440/476, CAT C MDA/HAA FROM 1420/456 TO 1480/516, AND CAT D MDA/VIS/HAA FROM 1520/2/556 TO 1700/2 1/4/736 - APPLIED NEW CIRCLING CRITERIA; NEW CONTROLLING OBSTACLES.
13. CHANGED ARRIVAL NA NOTE FROM "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SPA VORTAC AIRWAY RADIALS 231 CW 269 AND 360 CW 081" TO "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SPA VORTAC AIRWAY RADIALS 231 CW 269 AND 081" - RESTRICTION "UNUSABLE 351 - 099 BLO 15000" WAS REMOVED PER FLIGHT INSPECTION REPORT DATED 09/8-9/2016.
14. CHANGED LOCAL ALTIMETER SETTING NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREENVILLE DOWNTOWN ALTIMETER SETTING AND INCREASE ALL DA 29 FEET AND ALL MDA 40 FEET: INCREASE S-LOC 22 CATS C/D VISIBILITY TO RVR 3500" TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREENVILLE DOWNTOWN ALTIMETER SETTING: INCREASE DA TO 1193 FEET; INCREASE ALL MDAS 40 FEET AND VISIBILITY S-LOC 22 CATS C AND D TO RVR 3500 AND CIRCLING CAT D 1/4 SM" - FORMAT PER REVISED CRITERIA VIS CHANGES PER S-LOC 22 MDA INCREASE AND .3C TABLES 3-3-1 AND 3-3-7.
15. DELETED "CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING GREENVILLE DOWNTOWN ALTIMETER SETTING, INCREASE S-LOC 22 CATS C AND D VISIBILITY TO RVR 5500" - INOP INCREASE IS STANDARD; IAW VIS CALCULATOR.
16. UPDATED VGSI AND ILS GLIDEPATH NOTE FORMAT - REVISED CRITERIA.
17. DELETED "CHART: ASR" FROM ADDITIONAL FLIGHT DATA - NOTE NO LONGER REQUIRED; RADAR MINS NO LONGER PUBLISHED AT KGSP.
18. CHANGED LINE 5 GS ANT FROM 1210 TO 1211 - REVISED NAVAID DATA.
23. DELETED "CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW FRT NDB, RT, 063.00 INBOUND" FROM ADDITIONAL FLIGHT DATA - DELETED ALTERNATE MISSED APPROACH.
19. CHANGED LINE 4 FROM "LYMEN OM/INT 2700" TO "RAYCE INT/SPA 9.41 DME, LYMEN INT 2300, WIVET INT 1660" AND "LOC ONLY" TO NOTES - REPLACED PT WITH HIL, LYMEN LOM DECOM, ADDED SDF TO MAINTAIN MDA.
20. CHANGED FAS OBST FROM "1106 AAO 345737N/0821047W" TO "1060 TOWER 345618N/0821127W" - ADDED SDF
21. DELETED THE PROCEDURE TURN AND ADDED "HOLD NE RAYCE, LT, 218.22 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 5400" - ATC REQUESTED HOLD-IN-LIEU.
22. ADDED SDF 7:1 OBSTACLE "1144 AAO 345715N/0820958W" TO ADDITIONAL FLIGHT DATA - IAW 8260.19H 8-6-10.E.(2).

COORDINATED WITH:

A4A☒ALPA☒AOPA☒APA☒HAI☐NBAA☒OTHER: ZTL, GSP APP CON, GSP ATCT, AMGR

FLIGHT CHECKED BY

STEPHEN F KOCH

Digitally signed by
WARDELL HENNING
Sep 20, 2019

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FICO

DATE
9/6/19

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JACOB MAXFIELD

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Sep 20, 2019

OFFICE
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TITLE
MANAGER

