

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> GREER	<u>STATE</u> SC	
<u>AIRPORT ELEVATION</u> 964	<u>TDZE</u> 947	<u>SUPERSEDED</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> 2B	<u>DATED</u> 12/07/2017	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TAA**

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 328/30 CW 108/30	NOPT	328/15 CW 108/15		3900
2. 328/15 CW 108/15		OXABY	IF/IAF	3000
3. 108/30 CW 218/30		108/9 CW 218/9		7100
4. 108/9 CW 218/9		OXABY	IF/IAF	3000
5. 218/30 CW 328/30		OXABY	IF/IAF	3000

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OXABY	IF/IAF	MULDE		TF	FB	1.00	038.14	6.90	2300
MULDE	FAF	JOKVA/1.46 NM TO RW04		TF	FO	0.30	038.18	2.64	
JOKVA/1.46 NM TO RW04		RW04	MAP	TF	FO	0.30	038.18	1.46	
RW04	MAP	1147 MSL		CA			038.18		
1147 MSL		RAYCE		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW04

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT RAYCE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF (IAF)

2. HOLD SW OXABY, RT, 038.14 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 038.18      FAF: MULDE      DIST FAF TO MAP: 4.10      DIST FAF TO THLD: 4.10

4. MIN ALT: OXABY 3000, MULDE 2300, JOKVA/1.46 NM TO RW04 1460\*

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      200 HAT: 0.47      GS ANT:      MM:      IM:

6. MIN GP INCPT: 2300      GP ALT AT FAF : MULDE 2300      OM:

7. GP ANGLE: 3.00      34:1: IS CLEAR      20:1: IS CLEAR      TCH: 54.9

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C OR ABOVE 54°C.

\*LNAV ONLY

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM AND INCREASE LNAV CAT C/D VISIBILITY TO RVR 6000

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREENVILLE DOWNTOWN ALTIMETER SETTING: INCREASE LPV DA TO 1176 FEET AND LNAV/VNAV DA TO 1450 FEET AND ALL CATS VISIBILITY TO RVR 5500; INCREASE ALL MDAS 40 FEET AND VISIBILITY LNAV CATS C AND D TO RVR 4500 AND CIRCLING CAT D VISIBILITY 1/4 SM.

CHART NOTE: FOR INOPERATIVE ALS, WHEN USING GREENVILLE DOWNTOWN ALTIMETER SETTING, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM.

CHART NOTE: BARO-VNAV NA WHEN USING GREENVILLE DOWNTOWN ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.

WAAS CHANNEL #78103

REFERENCE PATH ID: W04A

CHART FAS OBST: 1109 TOWER 345211N/0821452W.

HOLD NE, LT, 218.27 INBOUND

LTP HAE: 255.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4; NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	1147	1800	200	1147	1800	200	1147	1800	200	1147	1800	200			
LNAV/VNAV DA	1421	5000	474	1421	5000	474	1421	5000	474	1421	5000	474			
LNAV MDA	1360	2400	413	1360	2400	413	1360	4000	413	1360	4000	413			
CIRCLING	1440	1	476	1440	1	476	1480	1 1/2	516	1700	2 1/4	736			



**CHANGES - REASONS**

- 1. CHANGED TAA SECTOR 1 FROM "328/30 CW 108/30 TO OXABY ALTITUDE 3900" TO "328/30 CW 108/30 TO 328/15 CW 108/15 ALTITUDE 3900" - ADDED STEPDOWN ARC; NEW CONTROLLING OBSTACLE.
- 2. ADDED STEPDOWN ARC "328/15 CW 108/15 TO OXABY ALTIUDE 3000" - NEW CONTROLLING OBSTACLE PLUS MOUNTAINOUS ROC WITH PRECIPITOUS TERRAIN RAISED SECTOR ALTITUDE; ADDED STEPDOWN ARC TO RETAIN IF CROSSING ALTITUDE OF 3000.
- 3. CHANGED LEFT BASE STEPDOWN ARC DISTANCE FROM 20 NM TO 9 AND LOWERED THE STEPDOWN ARC ALTITUDE FROM 4300 TO 3000 - ACHIEVE A COMMON ALTITUDE OF 3000 AT THE IF/IAF.
- 4. ADDED LEG TYPES AND RNP VALUES TO TERMINAL ROUTES - IAW 8260.19H 8-6-4.A.(6).
- 5. ADDED "JOKVA/1.46 NM TO RW04 1460" TO LINE 4 - ADDED SDF FOR OPTIMUM DESCENT.
- 6. CHANGED THE CA ALTITUDE FROM 1141 MSL TO 1147 MSL - CALCULATION CHANGED FROM THRE TO TDZE.
- 7. LINE 2 ADDED "MAX 6000" AT H-I-L FIX - IAW 8260.19 8-6-7.B.(2)
- 8. DELETED "DISTANCE TO THLD FROM 200 HATH: 0.46NM" FROM ADDITIONAL FLIGHT DATA AND ADDED DIST TO THLD FROM "200 HAT: 0.47" - CURRENT CRITERIA REQUIRES THAT THE DISTANCE BE BASED ON HAT; IAW 8260.19H 8-6-7.E.(3).
- 9. CHANGED TCH FROM 55 TO 54.9 - REVISED ILS AIRNAV DATA.
- 10. ADDED "20:1 IS CLEAR" - 8260.19H 8-6-7.G.(3).
- 11. CHANGED FAS OBST FROM "CHART FAS OBST: 1112 ROD 345211N/0821452W" TO "CHART FAS OBST: 1109 TOWER 345211N/0821452W." - NEW CONTROLLING OBST.
- 12. DELETED "CHART VDP AT 1.27 MILES TO RW04\*" - VDP IS LOCATED WITHIN 0.5 NM FROM THE SDF
- 13. DELETED "1199 AAO 344957N-0821712W" - 7:1 EXCLUSION DOES NOT PROVIDE ANY ADDED VALUE.
- 14. ADDED CHART CIRCLING ICON - APPLIED NEW CIRCLING CRITERA
- 15. DELETED "CHART: ASR" FROM ADDITIONAL FLIGHT DATA - NOTE NO LONGER REQUIRED; RADAR MINS NO LONGER PUBLISHED AT KGSP.
- 16. CHANGED LNAV/VNAV DA/HAT ALL CATS FROM 1422/475 TO 1421/474 - NEW CONTROLLING OBSTACLE.
- 17. CHANGED LNAV MDA/HAT FROM 1400/453 TO 1360/413 - ADDED SDF
- 18. CHANGED LNAV/VNAV VIS ALL CATS FROM 6000 TO 5000 AND LNAV VIS CAT C/D FROM 4500 TO 4000 - IAW VIS CHECK CALCULATOR.
- 19. CHANGED CIRCLING CATS A/B CMDA/HAA FROM 1420/456 TO 1440/476 AND CAT C CMDA/HAA FROM 1420/456 TO 1480/516 AND CAT D CMDA/HAA FROM 1520/556 TO 1700/736 - APPLIED NEW CIRCLING CRITERIA; NEW CONTROLLING OBSTACLES.
- 20. CHANGED CIRCLING CAT D VIS FROM 2 TO 2 1/4 - IAW VIS CHECK CALCULATOR.
- 21. DELETED "VDP NA WHEN USING GREENVILLE DOWNTOWN ALTIMETER SETTING" - VDP IS LOCATED WITHIN 0.5 NM FROM THE SDF.
- 22. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 38C (100F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C OR ABOVE 54°C" - REVISED CRITERIA; ACT BASED ON FIVE YEAR 2014-2018.
- 23. REPLACED DME/DME RNP-0.3 NM WITH PBN REQUIREMENTS NOTE: RNP APCH - 8260.58A CHG 1, TABLE 1-2-1.
- 24. CHANGED NOTE "FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM" TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM AND INCREASE LNAV CAT C/D VISIBILITY TO RVR 6000" - IAW VIS CHECK CALCULATOR.
- 25. ADDED "CHART NOTE: FOR INOPERATIVE ALS, WHEN USING GREENVILLE DOWNTOWN ALTIMETER SETTING, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM" - INCREASE FROM RVR 5000 (1 SM) TO 1 3/8 IS NON-STANDARD.
- 26. CHANGED NOTE "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREENVILLE DOWNTOWN ALTIMETER SETTING: INCREASE ALL DA 29 FEET AND ALL MDA 40 FEET; INCREASE LNAV CATS C AND D VISIBILITY TO RVR 5000" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREENVILLE DOWNTOWN ALTIMETER SETTING: INCREASE LPV DA TO 1176 FEET AND LNAV/VNAV DA TO 1450 FEET AND ALL CATS VISIBILITY TO RVR 5500; INCREASE ALL MDAS 40 FEET AND VISIBILITY LNAV CATS C AND D TO RVR 4500 AND CIRCLING CAT D VISIBILITY 1/4 SM" - IAW VIS CHECK CALCULATOR
- 27. CHANGED FAS DATA BLOCK INFORMATION LTP LONG FROM 0821343.0885W TO 0821343.0870W, LTP ELLIPSOIDAL HEIGHT FROM +02555 TO +02554, FPAP LAT/LONG FROM 345430.440N/0821232.6900W TO 345430.4465N/0821232.6865W AND TCH FROM 00055.0 TO 00054.9 AND CHANGE CRC REMAINDER FROM "00E9152A" TO "450463F0"- REVISED AIRNAV DATA.
- 28. CHANGED MINIMUMS FROM STANDARD TO "STANDARD - CAT D 800-2 1/4" - HAA INCREASE ABOVE STANDARD.

**COORDINATED WITH:**

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

**FLIGHT CHECKED BY**

**OFFICE**

**DATE**

**DEVELOPED BY**

JACOB MAXFIELD

*Digitally signed by*

**JACOB MAXFIELD**

**OFFICE**

AJV-A431

**DATE**

05/20/2019

**APPROVED BY**

GEORGE DAVIS

Jul 29, 2019

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER

QUALITY  
10  
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGSP
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	345258.3865N
LTP/FTP LONGITUDE	0821343.0870W
LTP/FTP ELLIPSOIDAL HEIGHT	+02554
FPAP LATITUDE	345430.4465N
FPAP LONGITUDE	0821232.6865W
THRESHOLD CROSSING HEIGHT (TCH)	00054.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	450463F0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02868
FPAP ORTHOMETRIC HEIGHT	+02868



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
GREENVILLE SPARTANBURG INTL	KGSP	RNAV (GPS) RWY 4	3	GREER	SC	964	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM  
328/30 CW 108/30

TO  
328/15 CW 108/15

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (45-000062)	344115.00N/0825916.00W	1864	250	50	4D	2000					3900
2.TERRAIN	344833.00N/0824930.00W	1106 (1100)								AS1500	2600

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM  
328/15 CW 108/15

TO  
OXABY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.TREE	344918.00N/0823806.00W	1416	250	125	4E	2000				MT-416	3000
4.TERRAIN	344551.00N/0823433.00W	1047 (1000)								AS1500	2500

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



LEFT BASE AREA

FROM

108/30 CW 218/30

TO

108/9 CW 218/9

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (37-000913)	351056.00N/0824055.00W		5049	500	125	5E	2000					7100
6.TERRAIN	350354.00N/0824636.00W		3508 (3500)								AS1500	5000

COMPUTATIONS

ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LEFT BASE AREA

FROM

108/9 CW 218/9

TO

OXABY

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TREE	345418.00N/0822415.00W		1213	250	125	4E	2000				MT-213	3000
8.TERRAIN	345027.00N/0821830.00W		1195 (1200)								AS1500	2700

COMPUTATIONS

ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



RIGHT BASE AREA

FROM

218/30 CW 328/30

TO

OXABY

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE	350824.00N/0820457.00W		1242	250	125	4E	2000				MT-242	3000
10.TERRAIN	350824.00N/0820457.00W		1100 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

OXABY (IF/IAF)

TO

MULDE

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.90											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.TOWER (45-000988)	344909.00N/0821749.00W		1256	50	20	2C	500				AT544	2300
12.TERRAIN	344927.00N/0821818.00W		1026 (1000)								AS1000	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

MULDE

TO

RW04

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.10		DA			200						
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				1147

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

MULDE

TO

RW04

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.10		DA			474						
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.TOWER (45-001206)	345211.00N/0821452.00W		1109	50	20	2C		20.71:1			AC20	1421

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:





FINAL: LNAV

FROM  
MULDE

TO  
JOKVA/1.46 NM TO RW04

RNP	DISTANCE 2.64	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
14.AAO	345008.56N/0821626.48W		1159	50	20	2C	250				RA29 DG22	1460

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM  
JOKVA/1.46 NM TO RW04

TO  
RW04

<u>RNP</u>	<u>DISTANCE</u> 1.46	<u>PAT</u>	<u>MAP</u> RW04	<u>HAT</u> 413			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
13.TOWER (45-001206)	345211.00N/0821452.00W		1109	50	20	2C	250					1360

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM  
OXABY

TO  
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
15.TOWER (45-000599)	343851.00N/0821612.00W		1849	100	20	3C	1000				SA-587 AT738	3000
16.TERRAIN	344654.00N/0822218.00W		975 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LPV

FROM  
DA

TO  
RAYCE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 976					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
17.TOWER (45-001009)	345954.00N/0820816.00W		1401	250	50	4D	1000					2500
18.TERRAIN	350154.00N/0820909.00W		1138 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

RAYCE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1260					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
17.TOWER (45-001009)	345954.00N/0820816.00W		1401	250	50	4D	1000					2500
18.TERRAIN	350154.00N/0820909.00W		1138 (1100)								AS1500	2600

COMPUTATIONS
ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM

RW04

TO

RAYCE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1260					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
17.TOWER (45-001009)	345954.00N/0820816.00W		1401	250	50	4D	1000					2500
18.TERRAIN	350154.00N/0820909.00W		1138 (1100)								AS1500	2600

COMPUTATIONS
ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
19.WATER_TOWER (45-064680)	345420.42N/0821344.89W	1.30	476	1121	20	10	1B	300			1440
CATEGORY B											
19.WATER_TOWER (45-064680)	345420.42N/0821344.89W	1.84	476	1121	20	10	1B	300			1440
CATEGORY C											
20.TOWER (45-001708)	345608.00N/0821337.00W	2.89	516	1170	50	20	2C	300			1480
CATEGORY D											
21.AAO	345657.00N/0821530.00W	3.78	736	1382	50	20	2C	300			1700

CIRCLING REMARKS:

CENTER

RADIUS

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ZTL ARTCC, GSP APP CON, GSP TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KGSP	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KGSP	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KGMU	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KGMU	<u>DISTANCE</u> 7.07	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 29

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME KGSP 964, KGMU 1048 RA = 28.1.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW04 - TDZ, ALSF-2 (PCL), HIRL (PCL), C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW22 - MALSR (PCL), HIRL (PCL), C/LINE (PCL), PAPI-4R		PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 940.8	<u>TCH</u> 54.9	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 56.0
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<u>FINAL APPROACH COURSE AIMING</u>			
RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

<u>CRITICAL TEMPERATURES</u>			
<u>CRITICAL LOW</u> -10C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -10C	<u>APT ISA</u> +13.09C

CRITICAL TEMPERATURE REMARKS:  
AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2014-2018). CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 968 HIGH TEMP 1277.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or  
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS



AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
GREENVILLE SPARTANBURG INTL	KGSP	RNAV (GPS) RWY 4	3	GREER	SC	964	RNAV
<p><b>PART C: GENERAL REMARKS:</b></p> <p>VDP NOT ESTABLISHED - VDP IS LOCATED WITHIN 0.5 NM FROM THE SDF.</p> <p>PRECIPITOUS TERRAIN EVALUATION COMPLETED.</p> <p>AVERAGE VEGETATION ASSUMED TO BE 100 FEET PER FPT.</p> <p>ATC REQUEST TO KEEP THE BACK-UP ALTIMETER SETTING NOTE CHARTED ON PROCEDURE.</p> <p>ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.</p>							
<div>QUALITY 10 CHECKED</div>							

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.15
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.25
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	032.18
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	994
DISTANCE FROM	THLD	TO 1500FT POINT	10.00
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	032.14
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1026

THRESHOLD  
COORDINATES  
(IF STR-IN)

345258.39N/0821343.09W

ARP COORDINATES

345344.42N/0821307.89W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 22 DISTANCE 0.91 NM

FAF  
COORDINATES

344930.09N/0821622.18W

FIX NAME  
COORDINATES

IF OXABY: 344339.04N/0822049.71W

REMARKS

TAA 30NM RADIUS



PART E: PREPARED BY

<u>NAME</u> JACOB MAXFIELD	<u>OFFICE</u> AJV-A431	<u>DATE</u> 05/20/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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