U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC/DME STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ZEXUN/ 13.50 DME (IF)	JAAMM/ 6.17 DME	213.07 / 7.33 (I-HXD)	1800

MISSED APPROACH

MAP: I-HXD 0.77 DME FIX

CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 2000 ON SAV R-085 TO SELER/SAV 21.47 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 175 AND ON CHS VORTAC R-219 TO TYBEE/CHS 76.09 DME AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 085.49 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE TYBEE/CHS 76.09 DME, RT, 219.00 INBOUND.
CHART FAS OBST: 150 SHIP 321511N/0804050W CHART W-74.
JAAMM TO RW21: 3.05/40.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT ZEXUN
3. FAC 213.07 FAF JAAMM/ 6.17 DME DIST FAF TO MAP ____ THLD 5.40
4. MIN. ALT ZEXUN 1800, JAAMM 1800, WOVIN/3.00 DME 760
8. MSA FROM: SAV VORTAC 2600

MAG VAR: 7W EPOCH YEAR:2005

MINIMUMS

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

ALTERNATE: N A X

CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-21	480	1	467	480	1	467	480	1 3/8	467	480	1 3/8	467			
CIRCLING	540	1	521	540	1	521	640	1 3/4	621	640	2	621			

NOTES:

CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 3 NA AT NIGHT.
CHART NOTE: USE SAVANNAH ALTIMETER SETTING.
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 21 PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 19 THRE: 13 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
HILTON HEAD ISLAND, SC	HILTON HEAD	I-HXD	LOC/DME RWY 21, AMDT 5	AMDT 4
				DATE 01/18/2007

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] ZJX, SAV APP CON, NBC RATCF, AIRPORT MANAGER

FLIGHT CHECKED BY		
NAME: JOHN FRANK HOLLOWELL	FIFO FIOG	DATE: 12/20/2011
DEVELOPED BY		
NAME: DONALD E. SMITH (SHAWN REDDINGER)	FIFO AJV-352	DATE: 09/12/2011
APPROVED BY		
NAME: DARRYEL ADAMS MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. IF/IAF CHANGED FROM FUMMA TO ZEXUN.
2. TERMINAL ROUTE TO JAAMM DISTANCE CHANGED FROM 5.02 TO 7.34.
3. ADDED ALT MISSED, SAME FIX (SELER) DEFINED BY SVN FOR THE ALT MISSED.
4. ADDED ALT MISSED HOLDING PATTERN AT SELER AS DEFINED BY SVN.
5. ADDED FINAL STEPDOWN FIX WOVIN.
6. CHANGED TDZE TO THRE, UPDATED HATS.
7. ADDED VISIBILITY REDUCTION NA NOTE.
8. ADDED WHEN VGSI INOP NOTES.
9. CHANGED S-21 CAT C/D VIS FROM 1 1/4 AND 1 1/2 TO 1 3/8.
10. DELETED FIX HIBOX.

REASONS:

1,2. 8260.3B INTERMEDIATE SEGMENT MIN LENGTH REQUIREMENT.
3,4,5. PER FPT REQUEST.
6. IAW 8260.19D.
7. 20:1 PENETRATIONS.
8. UNLIGHTED RWY 3 AND 21 34:1 PENETRATIONS.
9. IAW 8260.3B VISIBILITIES TABLE.
10. MAP AT DISPLACED THLD.

12/22/2011: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/12/2011.
1. CHANGED ALTERNATE MA AND HOLDING LOCATION FROM SELERS TO TYBEE: FLIGHT CHECK DISAPPROVED DEFINING SELERS WITH SVN VOR/DME. TYBEE IS ATC'S SECOND CHOICE.

QUALITY 1 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

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ARINC PACKET - 424-18 - LOC

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        SAV   K7011595VTHA N32084651W081115681    N32084651W081115681W0060000242     NARSAVANNAH
        SUSAD KHXDK7 IHXD  K7011130 IT                    IHXDN32130175W080420247     000200     NARHILTON HEAD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   JAAMM K70    C     N32183581W080385341                    W0070     NAR           JAAMM
        SUSAEAENRT   SELER K70    R     N32123952W080470388                    W0069     NAR           SELER
        SUSAEAENRT   WOVIN K70    R     N32154490W080403192                    W0070     NAR           WOVIN
        SUSAEAENRT   ZEXUN K70    R     N32251180W080350472                    W0071     NAR           ZEXUN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHXDK7AHXD     0     043YHN32132770W080415090W007000019         1800018000C    MNAR    HILTON HEAD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHXDK7FL21   L      010ZEXUNK7EA0E  I    IF IHXDK7      03310135        PI  + 01800     18000                   0 DS
        SUSAP KHXDK7FL21   L      020JAAMMK7EA0E  F    CF IHXDK7      0331006221300073PI  + 01800                 SAV   K7D 0 DS
        SUSAP KHXDK7FL21   L      021WOVINK7EA0E S     CF IHXDK7      0331003021300032PI  + 00760             -305          0 DS
        SUSAP KHXDK7FL21   L      030RW21 K7PG0GY M    CF IHXDK7      0330000821300022PI    00053             -305          0 DS
        SUSAP KHXDK7FL21   L      040         0  M     CA                       2131     + 00800                         0 DS
        SUSAP KHXDK7FL21   L      050SELERK7EA0EY  R   CFYSAV K7      0855021526550040D   + 02000                         0 DS
        SUSAP KHXDK7FL21   L      060SELERK7EA0EE  R   HM                       0855T010   + 02000                         0 DS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHXDK7GRW21    0043002131 N32134415W080414145+0200    -0027800013030040100RIHXD0

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHXDK7IIHXD0   011130RW21 N32130287W0804205152131                0644     0600   W0070

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHXDK7SSAV  K7D                 0   18018002625                                                                        M
```

QUALITY CHECK

CITY AND STATE	ELEVATION: 19 THRE: 13	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HILTON HEAD ISLAND, SC	AIRPORT NAME: HILTON HEAD	I-HXD	LOC/DME RWY 21, AMDT 5	AMDT: 4
				DATED: 01/18/2007

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

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ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		ZEXUN	010	FACF	IF		FB				AA 01800	
		JAAMM	020	FAF	CF		FB		213.0()	007.3	AA 01800	
		WOVIN	021	SDF	CF		FB		213.0()	003.2	AA 00760	
		RW21	030	MAP	CF		FO		213.0()	002.2	AT 00053	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		213.1()		AA 00800	
	SELER	050		CF	R	FO		265.5()	004.0	AA 02000	
	SELER	060		HM	R	FO		085.5()	T01.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	SAV	N320846.51	W0811156.81	N3208.775	W08111.947
	IHXD (DME)	N321301.75	W0804202.47	N3213.029	W08042.041
	JAAMM	N321835.81	W0803853.41	N3218.597	W08038.890
	SELER	N321239.52	W0804703.88	N3212.659	W08047.065
	WOVIN	N321544.90	W0804031.92	N3215.748	W08040.532
	ZEXUN	N322511.80	W0803504.72	N3225.197	W08035.079
	RW21	N321344.15	W0804141.45	N3213.736	W08041.691
	IHXD (LOC)	N321302.87	W0804205.15	N3213.048	W08042.086

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW21	00013	40

QUALITY CHECKED

CITY AND STATE	ELEVATION: 19 THRE: 13	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HILTON HEAD ISLAND, SC	AIRPORT NAME: HILTON HEAD	I-HXD	LOC/DME RWY 21, AMDT 5	AMDT: 4
				DATED: 01/18/2007

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE	ZEXUN/ 13.50 DME	JAAMM/ 6.17 DME	1. TOWER (45-000788)	321952.12N/0803736.92W	540 (3C)	500	AT760	1800
			2. TERRAIN	322645.00N/0803854.00W	30 (0)		AS1500	1500
FINAL	JAAMM/ 6.17 DME	WOVIN/3.00 DME	3. AAO	321745.22N/0803835.97W	220 (2C)	250	RA65 DG225	760
FINAL: STEPDOWN	WOVIN/3.00 DME	I-HXD 0.77 DME FIX	4. SHIP	321511.03N/0804050.43W	150 (2C)	250	RA65	480
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	I-HXD 0.77 DME FIX	SELER/SAV VORTAC				ASC		2000
		21.47 DME	5. AAO	321139.00N/0804606.00W	217 (4D)	1000		1300
ELEV:	165		6. TERRAIN	321509.00N/0804245.00W	23 (0)		AS1500	1500
			7. TANK (45-000814)	321310.00N/0804128.00W	164 (1C)	300	RA65	540
			7. TANK (45-000814)	321310.00N/0804128.00W	164 (1C)	300	RA65	540
			8. TOWER (45-000614)	321201.00N/0804326.00W	207 (5D)	300	RA65 AC50	640
			8. TOWER (45-000614)	321201.00N/0804326.00W	207 (5D)	300	RA65 AC50	640

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	521
CATEGORY B	1.5 NM	450	521
CATEGORY C	1.7 NM	450	621
CATEGORY D	2.3 NM	550	621
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: SAV VORTAC

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TOWER (13-000590)	234/ 09.5	1549 (3C)	2600					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 19 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HILTON HEAD ISLAND, SC	HILTON HEAD	I-HXD	LOC/DME RWY 21, AMDT 5	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZJX ARTCC SAV APP CON NBC APP CON	X	N W S	OTHER: ASOS	SOURCE: KSAV
	X	F A A		DISTANCE: 26.35
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24/7
X V H F X U H F H F	LOCATION: KSAV			ADJUSTMENT: 65

4. MONITOR STATUS	PRIMARY NAVAID: I-HXD	
	MONITOR POINT: KHXD	
	HRS OPTN: CAT 1	24
	CAT 3	

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 21 (PCL), 03 (PCL)
	X	REIL 21 (PCL), 03 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4R 21 PAPI-4L 03

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 21, 03
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: DONALD E. SMITH (SHAWN REDDINGER)	DATE: 09/12/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - ALTIMETER ADJUSTMENT IN USE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RWY 21 THLD PERMANENTLY DISPLACED 300'.

VGSI DATA 3.00/40.

RASS PRESSURE PATTERNS SAME
KSAV 50.20, KHXD 19.10
RA = 65.
SEE ATTACHED AIRSPACE LETTER.

OBST 4: GREATEST SHIP MAST HEIGHT WITHIN THE PORT ROYAL SOUND SHIPPING CHANNEL REPORTED TO BE 150' BY HARBOR MASTER OF PORT ROYAL., SC.
OBST 6: HIGH TERRAIN POINT IN MISSED APPROACH IS LOCATED INSIDE AAO EXCLUSION AREA.

CLIMB TO 800 BEFORE TURNING ON MISSED APPROACH IS FOR NOISE SENSITIVE AREAS, REQUESTED BY ATC.

MISSED APPROACH DOES NOT TERMINATE IN ENROUTE ENVIRONMENT, PER ATC REQUEST.

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:
20:1 RWY 21
107 TREE (KHXD0048) 321351.39N/0804142.07W (72.32)
106 TREE (K49J0019) 321351.58N/0804142.68W (71.61)
105 TREE (KHXD0047) 321347.96N/0804134.22W (71.07)
100 TREE (K490046) 321353.55N/0804140.71W (52.96)
96 TREE (KHXD0051) 321350.55N/0804132.61W (47.28)
94 TREE (KHXD0042) 321348.74N/0804143.08W (73.25)
91 TREE (K49J0020) 321349.17N/0804142.95W (68.05)
90 TREE (KHXD0024) 321358.82N/0804137.35W (12.71)
88 TREE (KHXD0045) 321346.76N/0804135.80W (65.50)
86 TREE (K49J0043) 321350.88N/0804141.76W (53.05)
79 TREE (K49J0024) 321345.80N/0804136.26W (58.72)
76 TREE (KHXD0023) 321355.04N/0804129.65W (1.33)
69 TREE (KHXD0020) 321353.45N/0804139.96W (20.99)
67 TREE (KHXD0019) 321349.32N/0804134.83W (28.05)
67 TREE (K49J0042) 321354.79N/0804139.38W (11.82)
61 TREE (K49J0044) 321352.05N/0804133.10W (6.40)
34:1
56 TREE (KHXD0021) 321355.46N/0804136.83W (13.57)
53 TREE (KHXD0022) 321353.79N/0804131.74W (9.38)
20:1 RWY 3
101 TREE (KHXD0013) 321255.73N/0804205.05W (12.72)
89 TREE (KHXD0011) 321258.99N/0804203.13W (19.14)
89 TREE (KHXD0012) 321300.42N/0804210.52W (11.69)
88 TREE (KHXD0010) 321302.61N/0804209.48W (22.59)
81 TREE (K49J0038) 321302.83N/0804209.43W (16.68)
68 TREE (K49J0037) 321305.44N/0804207.41W (19.33)

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 2000
5. AAO 321139.00N/0804606.00W 217 (4D) 1000 1300
6. TERRAIN 321509.00N/0804245.00W 23 (0) AS1500 1500

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JAAMM **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 321835.81N/0803853.41W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HILTON HEAD ISLAND	I-HXD	LOC/DME		033.07	026.07	6.17	6.17	37459	1800	4500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
DME COORDINATES: 321301.75N/0804202.47W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC/DME RWY 21	1		KHXD	HILTON HEAD ISLAND	SC (US)
IAP	RNAV (GPS) RWY 21			KHXD	HILTON HEAD ISLAND	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
CORRECTED FIX TYPE TO REMOVE "RADAR".
CORRECTED FIX MAKE-UP FACILITIES.
ADDED DIST FROM FAC NM/FEET INFO.
UPDATED FIX USE INFO INTO CORRECT FORMAT.

DEVELOPED BY: **DATE:** 09/07/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (SHAWN REDDINGER)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: SAV APP CON
OTHER: NBC APP CON

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SELER **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 321239.52N/0804703.88W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SAVANNAH	SAV	VORTAC	H	085.49	079.49	21.47	21.47		2000	10000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	SAV	VORTAC	085.49	085.49	R	1		2000	10000	4	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-001143)	321340.73N/0805049.39W	849	3C
1	310	TOWER (45-001143)	321340.73N/0805049.39W	849	3C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	LOC/DME RWY 21	KHXD	HILTON HEAD ISLAND	SC (US)

REMARKS:
SAVANNAH (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC/DME RWY 21	1	1	KHXD	HILTON HEAD ISLAND	SC (US)
IAP	VOR/DME A	1		KHXD	HILTON HEAD ISLAND	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
ADDED SVN (HUNTER VOR/DME) TO FIX MAKE-UP FACILITIES.
CORRECTED FIX USE.
ADDED HOLDING PATTERN 2
ADDED CLIMB-IN-HOLD EVALUATION FOR PATTERNS 1 AND 2.
ADDED PRECIPITOUS TERRAIN EVALUATION.
INCREASED MIN HOLDING ALTITUDE FROM 1800 TO 2000 TO CORRECT FOR CONTROLLING OBS HEIGHT ROUNDING.
UPDATED CONTROLLING OBS LAT/LONG AND ACCURACY CODE.

01/04/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/07/2011.
1.REMOVED SVN VOR/DME FROM MAKE-UP FACILILTIES AND ALL OF ITS REFERENCES (FC UNSAT)
2.REMOVED PAT 2

DEVELOPED BY: **DATE:** 09/07/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (SHAWN REDDINGER)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZJX
ATC FACILITY: SAV APP CON
OTHER: NBC APP CON

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TYBEE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 315016.99N/0805212.82W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CRAIG	CRG	VORTAC	H	023.00	020.00	95.61	95.61		11000	17500
2	CHARLESTON	CHS	VORTAC	H	219.00	214.00	76.09	76.09		2000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CRG	VORTAC	R-023	96	11000	14500
CHS	VORTAC	R-219	77	2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	CHS	VORTAC	219.00	219.00	R		4	2000	17500	5	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	315403.00N/0810042.00W	273	4E
1	310	AAO	315212.00N/0800030.00W	305	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	LOC/DME RWY 21	KHXD	HILTON HEAD ISLAND	SC (US)

REMARKS:
CRAIG (FAC 1) AND CHARLESTON (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V1	1, 2				(US)
IAP	LOC/DME RWY 21	2	1	KHXD	HILTON HEAD ISLAND	SC (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
FIX MOVES 2.95 FT SOUTH
UPDATED FIX USE
UPDATED ESV DATA
LOWERED (FAC 2) MRA FROM 11000 TO 2000 IAW APPROVED CHS ESV
ADDED HOLDING PATTERN 1 AND ASSOCIATED NOTES
ADDED IAP TO REQUIRED CHARTING
ADDED NOTE DESCRIBING HOW FIX IS DEFINED

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZJX
ATC FACILITY:
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOVIN **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 321544.90N/0804031.92W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HILTON HEAD ISLAND	I-HXD	LOC/DME		033.07	026.07	3.00	3.00		680	4500

REMARKS:
DME COORDINATES: 321301.75N/0804202.47W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC/DME RWY 21	1		KHXD	HILTON HEAD ISLAND	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 09/07/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (SHAWN REDDINGER)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: SAV APP CON
OTHER: NBC APP CON

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEXUN **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 322511.80N/0803504.72W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HILTON HEAD ISLAND	I-HXD	LOC/DME		033.07	026.07	13.50	13.50		1800	4500

REMARKS:
DME COORDINATES: 321301.75N/0804202.47W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC/DME RWY 21	1		KHXD	HILTON HEAD ISLAND	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 09/07/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (SHAWN REDDINGER)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: SAV APP CON
OTHER: NBC APP CON

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **HILTON HEAD ISLAND** STATE: **SC**

AIRPORT NAME: **HILTON HEAD** ID: **KHXD**

PROCEDURE: **LOC/DME RWY 21** AMDT: **5**

DOCKET#: **NOT REQUIRED**
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **2.73**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **0.81**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **206.07**
4. High Terrain in **FINAL** segment containing 1000' point **23**
5. Distance from **THLD** to 1500' point **4.80**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.26**
7. True Course of **FINAL** segment containing 1500' point **206.07**
8. High Terrain in **FINAL** segment containing 1500' point **23**
9. Threshold Coordinates (if straight-in) ... **321344.15N** / **0804141.45W** *
10. ARP Coordinates ..... **321327.70N** / **0804150.90W**
11. Runway Approach End and distance furthest from ARP ..... RWY **3**
    Distance **0.30** NM
12. FAF Coordinates ..... **321835.81N** / **0803853.41W**

REMARKS: Approach/Drawing attached. * Displaced THLD

RADIO FIX AND HOLDING DATA RECORD

NAME: HIBOX **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 321344.15N/0804141.45W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** CANCELLED

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HILTON HEAD ISLAND	I-HXD	LOC/DME			026.07	0.77			480	4500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
DME COORDINATES: 321301.75N/0804202.47W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HILTON HEAD - LOC/DME RWY 21.			KHXD	HILTON HEAD ISLAND	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/25/2004

REASON FOR REVISION:
LOC RELOCATED 39.84 FEET SW ON CENTERLINE.
DME RELOCATED 193.47 FEET SW ABEAM LOC ANTENNA.

DEVELOPED BY: **DATE:** 11/14/2003 **OFFICE:** AVN-110 **NAME:** NEIL SIMPANEN

APPROVED BY: **DATE:** **OFFICE:** AVN-110 **NAME:** TERRY DEPLOIS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: ATL
ARTCC: ZJX
ATC FACILITY: SAV APP CON
OTHER: NBC APP CON

QUALITY 2 CHECKED