Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 10/05/2011	Task #: 2011090222611504006	Request #: 20110902226115
Procedure: VOR RWY 14 AMDT 4		Airport ID: KGLS	Airport: SCHOLES INTL AT GALVESTON		Reimbursable #:
City: GALVESTON	ST: TX	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID: VUH	Fac. Type: VORTAC	Specialist: JILL OLSON(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	07/17/2012	10/04/2012	CASIMIR TABAKA	
QA:	10/04/2012	10/04/2012	CASIMIR TABAKA	
Liaison:	10/04/2012		Sperlin	MAGVAR

MAG VAR

Procedure Comments:

Remark Type: INFORMATION

pkg 5 of 6

GALVESTON, TX SCHOLES INTL AT GALVESTON (KGLS) VOR RWY 14, AMDT 4 ENROUTE-NO FC: 11.27.12 PUB: 1.10.13

ATTACHED FORMS: 8260-5; 8260-10; 8260-9; 8260-2(S): DELVE-INT, REV 13; SCHOLES (VUH) VTAC, REV 13; XUDDU-INT, ORIG; ZELDA-INT, REV 3; (INFO ONLY) TRINITY (MHF) VDME, REV 7.

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

GALVESTON, TEXAS

AL-164 (FAA)

VORTAC VUH	APP CRS	Rwy ldg	6000
113.0	143°	THRE	5
Chan 77		Apt Elev	6

VOR RWY 14

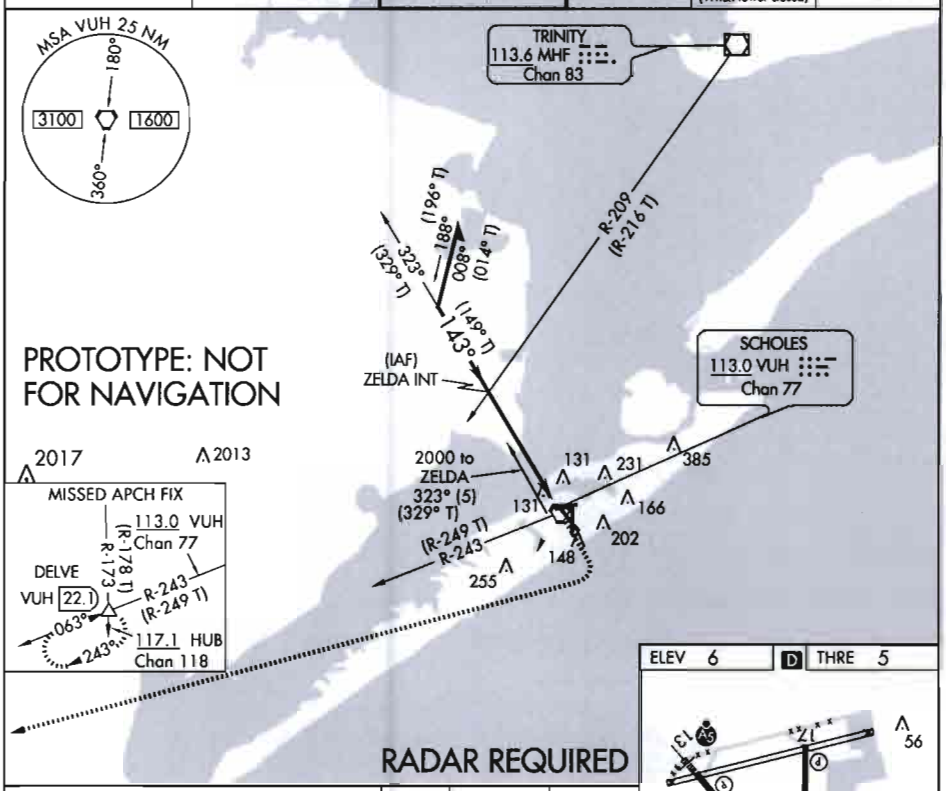
GALVESTON/SCHOLES INTL AT GALVESTON (GLS)

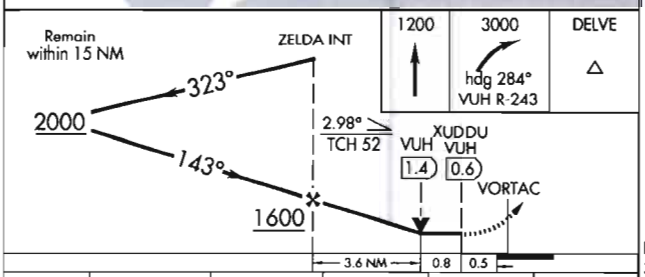
Circling NA E of rwy 18 and NE of rwy 32. When local altimeter setting not received, use William P Hobby altimeter setting and increase all mda 80 feet. Increase S-14 Cat C/D/E vis to 1 mile and circling Cat E vis to 2 1/2 mile. For inoperative MALSR, increase S-14 cat E vis to 1 3/8 mile. For inoperative MALSR, when using William P Hobby altimeter setting increase Cat E vis to 1 1/2 mile. VDP NA with William P Hobby altimeter setting.

MALSR

MISSED APPROACH: Climb to 1200 then climbing right turn to 3000 on heading 284° and on VUH VORTAC R-243 to DELVE Int/VUH 22.1 DME and hold.

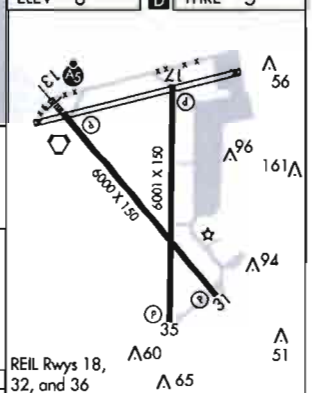
ASOS	HOUSTON APP CON	GALVESTON TOWER *	GND CON	CLNC DEL	UNICOM
119.275	134.45 284.0	120.575 (CTAF)	118.625	135.35 (When tower closed)	123.05





CATEGORY	A	B	C	D	E
S-14	460-½ 455 (500-½)		460-⅞ 455 (500-⅞)		
CIRCLING	500-1 494 (500-1)		500-1½ 494 (500-1½)	560-2 554 (600-2)	620-2¼ 614 (700-2¼)

ELEV 6 | D | THRE 5



REIL Rwys 18, 32, and 36
MIRL Rwy 18-36
HIRL Rwy 14-32

FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

GALVESTON, TEXAS
Amdt 4 Working FIG

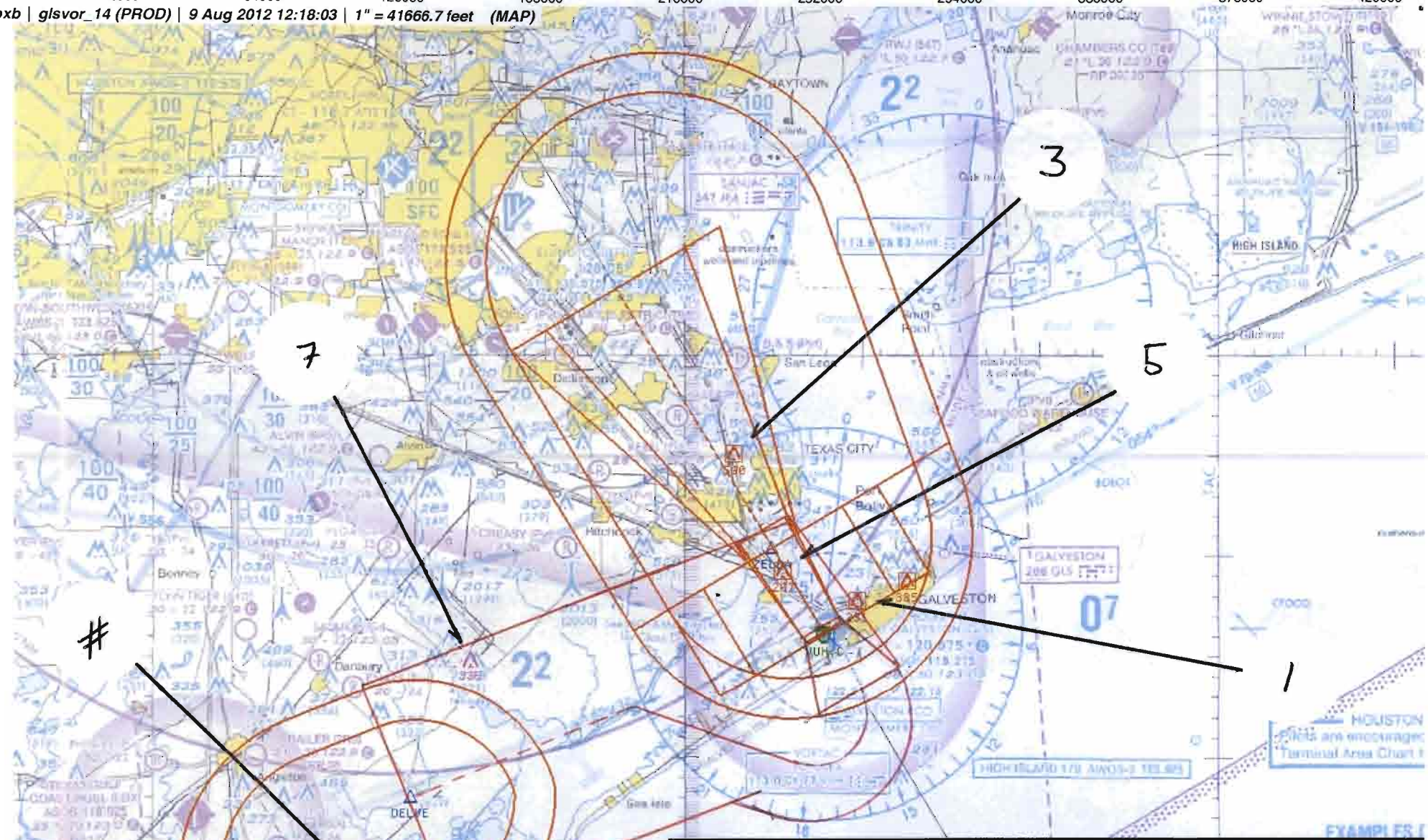
29°16'N - 94°52'W

GALVESTON/SCHOLES INTL AT GALVESTON (GLS)
VOR RWY 14

NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fpobxb | glsvor_14 (PROD) | 9 Aug 2012 12:18:03 | 1" = 41666.7 feet (MAP)

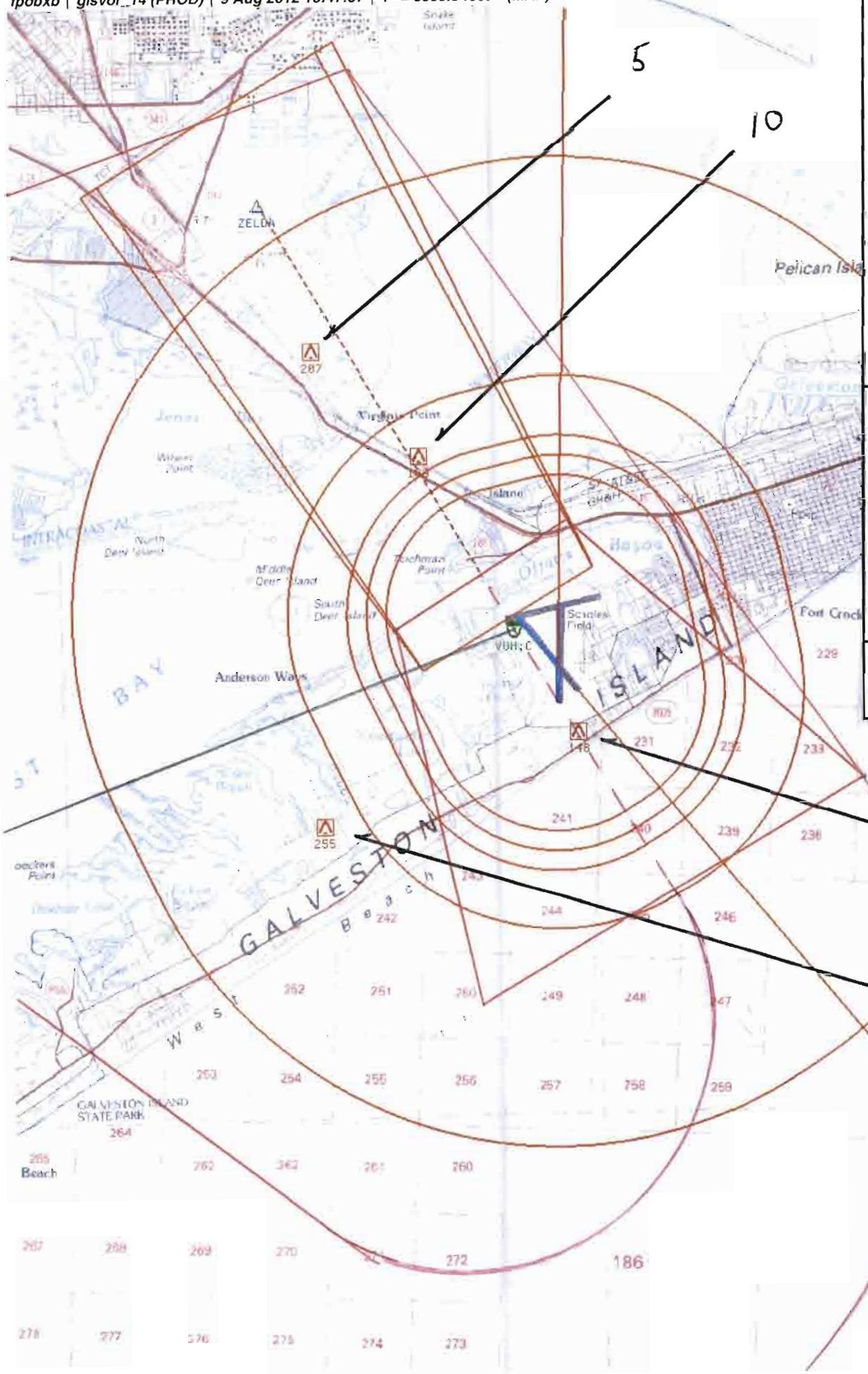


Airport ID:	KGLS	FM 9			
Apt Name:	SCHOLES INTL AT GALVESTON	No	SEGMENT	OBSTRUCTION	ELEV
City:	GALVESTON	1	FEEDER	TOWER	231
State:	TEXAS	3	INITIAL: PT	TOWER	590
Proc ID:	VOR	3	INTERMEDIATE: PT	TOWER	590
Amdt #:	AMDT 4	5	FINAL	AAO	207
Rwy:	RWY 14	7	MISSED	REFINERY	335
Scale:	1:500,000	#	HOLDING	TOWER	580

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpobxb | glsvor_14 (PROD) | 9 Aug 2012 13:47:37 | 1" = 8333.3 feet (MAP)



Airport ID:	KGLS
Apt Name:	SCHOLES INTL AT GALVESTON
City:	GALVESTON
State:	TEXAS
Proc ID:	VOR
Amdt #:	AMDT 4
Rwy:	RWY 14
Scale:	1:100,000

No	SEGMENT	OBSTRUCTION	ELEV
5	FINAL	AAO	207
9	CAT A/B/C CIRCLE	TOWER	148
10	CAT D CIRCLE	BRIDGE	169
11	CAT E CIRCLE	TOWER	225

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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
VUH VORTAC	ZELDA INT	323.06 / 5.00	2000

MISSED APPROACH

MAP: 4.39 MILES AFTER ZELDA INT OR AT XUDDU/0.61 DME FIX

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 284 AND ON VUH VORTAC R-243 TO DELVE INT/VUH 22.05 DME AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 062.58 INBOUND.
FAS OBST: 207 AAO 291854N/0945424W
CHART VDP AT 1.38 DME;
DISTANCE VDP TO THLD 1.26 MILES.
ZELDA TO RW14: 2.98/52.
FAC CROSSES RWY C/L EXTENDED 3005 FROM THLD.

1. PT R SIDE OF COURSE 323.06 OUTBOUND 2000 FT WITHIN 15 MILES OF ZELDA INT (IAF)
2.
3. FAC 143.06 FAF ZELDA INT DIST FAF TO MAP 4.39 THLD 4.88
4. MIN. ALT ZELDA INT 1600
8. MSA FROM: VUH VORTAC 180-360 3100, 360-180 1600

MAG VAR: 6E EPOCH YEAR:1985

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-14	460	1/2	455	460	1/2	455	460	7/8	455	460	7/8	455	460	7/8	455
CIRCLING	500	1	494	500	1	494	500	1 1/2	494	560	2	554	620	2 1/4	614

NOTES:
CHART NOTE: VDP NA WITH WILLIAM P HOBBY ALTIMETER SETTING.
CHART NOTE: CIRCLING NA E OF RWY 18 AND NE OF RWY 32.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILLIAM P HOBBY ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET. INCREASE S-14 CAT C/D/E VISIBILITY TO 1 MILE AND CIRCLING CAT E (SEE FORM 8260-10)

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP VOR RWY 13
GALVESTON, TX	AIRPORT NAME: SCHOLES INTL AT GALVESTON	VUH	VOR RWY 14, AMDT 4	AMDT 3A
				DATE 06/08/2006

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] ZHU, HOU APP CON, GLS ATCT, AMGR, ST AV DIRECTOR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: JILL OLSON (BRIAN BERUBEE)	FIFO AJV-353	DATE: 08/20/2012
APPROVED BY		
NAME: LARRY H STROUT MANAGER	FIFO AJV-353	DATE:

CHANGES:

1. CHANGED PROCEDURE NAME FROM VOR RWY 13 TO VOR RWY 14
2. ADDED CAT E MINIMA
3. CHANGED MISSED APPRAOCH TO INCLUDE A TURN TO HEADING AND RAISED FINAL CLIMB TO ALTITUDE FROM 1800 TO 3000
4. RAISED PT COMPLETION ALTITUDE FROM 1800 TO 2000
5. CHANGED PT DISTANCE FROM 10 MILES TO 15 MILES
6. CHANGED TDZE TO THRE
7. CHANGED DESCENT ANGLE/TCH FROM 3.00/45 TO 2.98/53
8. CHANGED VDP FROM 1.47 DME/1.35 MILES TO 1.38 DME/1.26 MILES
9. ADDED INOP EQUIPMENT NOTE
10. ADDED "RADAR REQUIRED" NOTE
11. DELETED ALTERNATE MINIMUMS
12. ADDED ALTERNATE ALTIMETER DATA AND APPROPRIATE NOTATIONS

REASONS:

1. RUNWAY RENUMBERING
2/4/10. FPT REQUEST
3. CRITERIA/FPT REQUEST
5. CAT E CRITERIA
6. USING THRE IN LIEU OF TDZE
7/8. RECALCULATION
9. CRITERIA
10. DELETED HUB INITIAL
11. FINAL FACILITY IS MONITOR CAT 3
13. CRITERIA

QUALITY 2 CHECKED

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
VISIBILITY TO 2 1/2 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-14 CAT E VISIBILITY TO 1 3/8 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING WILLIAM P HOBBY ALTIMETER SETTING, INCREASE S-14 CAT E VISIBILITY TO 1 1/2 MILE.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: VOR RWY 13
GALVESTON, TX	AIRPORT NAME: SCHOLES INTL AT GALVESTON	VUH	VOR RWY 14, AMDT 4	AMDT: 3A
				DATED: 06/08/2006

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

QUALITY 2 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	VUH VORTAC	ZELDA INT	1. TOWER (48-000854)	291724.00N/0945013.00W	231 (1A)	1000	AT769	2000
			2. TERRAIN	291748.00N/0945503.00W	40 (0)		AS1500	1500
INTERMEDIATE: PT	15 NM	ZELDA INT	3. TOWER (48-004625)	292443.62N/0945708.58W	590 (4D)	500	AT510	1600
			4. TERRAIN	293230.00N/0950354.00W	43 (0)		AS1500	1500
FINAL	ZELDA INT	4.39 MILES AFTER	5. AAO	291854.00N/0945424.00W	207 (2C)	250		460
		ZELDA INT OR AT						
		XUDDU/0.61 DME FIX						
2. PROCEDURE TURN	ZELDA INT	15 NM	3. TOWER (48-004625)	292443.62N/0945708.58W	590 (4D)	1000	AT410	2000
			6. TERRAIN	294151.00N/0950239.00W	56 (100)		AS1500	1600
3. MISSED APPROACH — MAP:	4.39 MILES AFTER	DELVE INT/VUH				ASC		3000
	ZELDA INT OR AT	22.05 DME	7. REFINE (48-003926)	291429.00N/0951203.00W	335 (5D)	1000		1400
ELEV:	210		8. TERRAIN	291748.00N/0945503.00W	40 (0)		AS1500	1500

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	494	9. TOWER (48-011943)	291502.00N/0945119.00W	148 (5D)	300	AC50	500
CATEGORY B	1.5 NM	450	494	9. TOWER (48-011943)	291502.00N/0945119.00W	148 (5D)	300	AC50	500
CATEGORY C	1.7 NM	450	494	9. TOWER (48-011943)	291502.00N/0945119.00W	148 (5D)	300	AC50	500
CATEGORY D	2.3 NM	550	554	10. BRIDGE (48-005786)	291750.00N/0945309.00W	169 (5D)	300	HAA	560
CATEGORY E	4.5 NM	550	614	11. TOWER (48-001949)	291405.00N/0945416.00W	255 (5D)	300	AC50	620

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: VUH VORTAC

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
180-360	TWR (48-005320)	268/ 19.1	2017 (3C)	3100					
360-180	TWR (48-002593)	036/ 10.3	560 (2C)	1600					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 6 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
GALVESTON, TX	SCHOLES INTL AT GALVESTON	VUH VORTAC	VOR RWY 14, AMDT 4	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
HOU APP CON GLS TOWER ZHU ARTCC		N W S	OTHER: ASOS	SOURCE: KGLS / KHOU
		F A A		DISTANCE: 0 / 31.59
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24 / 24
X V H F X U H F H F	LOCATION: KGLS			ADJUSTMENT: 0 / 79

4. MONITOR STATUS	PRIMARY NAVAID: VUH VORTAC	
	MONITOR POINT: MOCC	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	24
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 14 (PCL)
	X	HIRL 14, 32
	X	MIRL 18 (PCL), 36
	X	REIL 18, 36, 32
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 18, 36, 14, 32
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 14, 32
	INSTRUMENT	NPI-G 18, 36
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		RUNWAY THRESHOLD 3005 FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: JILL OLSON (BRIAN BERUBEE)	DATE: 08/20/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

NO ADDITIONAL AIRSPACE REQUIRED.
RASS PRESSURE PATTERNS SAME
KGLS 6, KHOU 46
RA = 78.36.

40' VEGETATION APPLIED PER FPT

30' BOAT HEIGHT USED IN BAY, 50' BOAT HEIGHT USED IN GULF PER PREVIOUS AMDT

KGLS ASOS ON SVC A
KHOU ASOS ON SVC A

RASS ADJUSTMENT ROUNDED UP TO 80 FEET AND PUBLISHED BY NOTE

VGSI DATA: 3.00 52.2

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DELVE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 290803.17N/0951530.36W **TYPE:** WP, INT, 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	SCHOLES	VUH	VORTAC	H	242.58	248.58	22.05	22.05		2600	17500
2	HOBBY	HUB	VOR/DME	H	173.25	178.25		31.22		2000	17500

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		WP	283.37	103.37	R		4	2000	6000	4	6
2	SW	VUH	VORTAC	242.58	062.58	R	1		2600	6000	6	8
3	E		WP	090.96	270.96	R		4	2000	10000	4	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (48-012449)	290730.00N/0952125.00W	485	4D
1	200	TOWER (48-004472)	290401.56N/0951911.64W	580	2C
2	200	TOWER (48-004472)	290401.56N/0951911.64W	580	2C
3	200	TOWER (48-002869)	291130.00N/0951734.00W	335	5D
3	265	TOWER (48-012449)	290730.00N/0952125.00W	485	4D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3100

REMARKS:
SCHOLES (FAC 1) AND HOBBY (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	V70	1, 2				(US)
IAP	RNAV (GPS) RWY 35		1	KLBX	ANGLETON/LAKE JACKSON	TX (US)
IAP	ILS OR LOC RWY 14	1, 2	2	KGLS	GALVESTON	TX (US)
IAP	RNAV (GPS) RWY 14		3	KGLS	GALVESTON	TX (US)
IAP	RNAV (GPS) RWY 18		3	KGLS	GALVESTON	TX (US)
IAP	RNAV (GPS) RWY 32		3	KGLS	GALVESTON	TX (US)
IAP	VOR RWY 14	1, 2	2	KGLS	GALVESTON	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
DELETED FAC 3 (RELOY) AND ASSOCIATED DATA
CHANGED PATTERN 1 MAX TEMPLATE FROM 10 TO 6
CHANGED PATTERN 2 MIN/MAX TEMPLATE FROM 5/11 TO 6/8
CHANGED PATTERN 3 INBOUND COURSE FROM 266.96 TO 270.96
CHANGED PAT 3 HOLDING OBST FROM 2017 TWR TO 485 TWR
CHANGED DME FOR PATTERN 1 & 3 FROM 5 TO 4
UPATED PATTERN 1 & 2 CONTROLLING OBST
ADDED NOTE "PRECIPITOUS TERRAIN EVALUATION COMPLETE"
UPDATED FIX USE

DEVELOPED BY: **DATE:** 08/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SCHOLES VORTAC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 291609.60N/0945203.81W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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	SCHOLES	VUH	VORTAC	H							45000

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	SW	VUH	VORTAC	232.90	052.90	R	1		3000	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	310	TOWER (48-005320)	291719.00N/0951353.00W	2017	3C
1	200	TOWER (48-014090)	291239.60N/0945618.78W	313	4E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BOWFN (RNAV)			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	SCHOLES			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	TRUAX			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	BOWFN (RNAV)			KGLS	GALVESTON	TX (US)
DP	SCHOLES			KGLS	GALVESTON	TX (US)
DP	TRUAX			KGLS	GALVESTON	TX (US)
DP	BOWFN (RNAV)			KAXH	HOUSTON	TX (US)
DP	SCHOLES			KAXH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KCXO	HOUSTON	TX (US)
DP	SCHOLES			KCXO	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KDWH	HOUSTON	TX (US)
DP	SCHOLES			KDWH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KEFD	HOUSTON	TX (US)
DP	SCHOLES			KEFD	HOUSTON	TX (US)
DP	TRUAX			KEFD	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KEYQ	HOUSTON	TX (US)
DP	SCHOLES			KEYQ	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KHOU	HOUSTON	TX (US)
DP	SCHOLES			KHOU	HOUSTON	TX (US)
DP	TRUAX			KHOU	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KIAH	HOUSTON	TX (US)
DP	SCHOLES			KIAH	HOUSTON	TX (US)
DP	TRUAX			KIAH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KIWS	HOUSTON	TX (US)
DP	SCHOLES			KIWS	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KSGR	HOUSTON	TX (US)
DP	SCHOLES			KSGR	HOUSTON	TX (US)
DP	TRUAX			KSGR	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KTME	HOUSTON	TX (US)
DP	SCHOLES			KTME	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KT41	LA PORTE	TX (US)
DP	SCHOLES			KT41	LA PORTE	TX (US)
EN ROUTE	B753					(US)
EN ROUTE	V556					(US)
EN ROUTE	V70					(US)
EN ROUTE	V70-556					(US)
IAP	ILS OR LOC RWY 14			KGLS	GALVESTON	TX (US)
IAP	VOR RWY 14			KGLS	GALVESTON	TX (US)
IAP	ILS OR LOC RWY 12R			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 30L (ALT MA)		1	KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 4			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT II)			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT III)			KHOU	HOUSTON	TX (US)
IAP	LOC RWY 22			KHOU	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 12R			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 35			KHOU	HOUSTON	TX (US)
IAP	VOR/DME-E			KHOU	HOUSTON	TX (US)
IAP	NDB RWY 30			KT41	LA PORTE	TX (US)
IAP	VOR-A			KT41	LA PORTE	TX (US)

QUALITY CHECKED 2

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
CHANGED UPN HOLDING OBSTACLE FROM 590 TOWER TO 2017 TOWER
UPDATED FIX USE

DEVELOPED BY:	**DATE:** 09/06/2012	**OFFICE:** AJV-353	**NAME:** JILL OLSON (BRIAN BERUBEE)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: XUDDU **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 291641.07N/0945225.33W **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	SCHOLES	VUH	VORTAC	H	323.06	329.06	0.61	0.61		360	4500

REMARKS:
SCHOLES (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 14	1		KGLS	GALVESTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 09/10/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON, GLS ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZELDA **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 292027.62N/0945500.35W **TYPE:** INT

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	SCHOLES	VUH	VORTAC	H	323.06	329.06		5.00	30391	1600	17500
2	TRINITY	MHF	VOR/DME	L	208.85	215.85		15.15		1600	17500

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

REMARKS:
SCHOLES (FAC 1) AND TRINITY (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 14	1, 2		KGLS	GALVESTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
DELETED DME FIX TYPE
ADDED DIST FROM FAC 1 & 2
UPDATED FIX USE

DEVELOPED BY: **DATE:** 08/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON, GLS ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: TRINITY VOR/DME **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 293246.84N/0944451.05W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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	TRINITY	MHF	VOR/DME	L							17500

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	E	MHF	VOR/DME	080.00	260.00	R	1		2000	14000	4	13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	200' AAO	293457.00N/0944130.00W	214	2C

REMARKS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

265 KTS HOLDING PATTERN CHECKED AT ATC REQUEST FOR MILITARY AND NASA (PAT 1).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 32			K54T	BAYTOWN	TX (US)
IAP	ILS OR LOC RWY 14			KGLS	GALVESTON	TX (US)
IAP	VOR RWY 14			KGLS	GALVESTON	TX (US)
IAP	ILS OR LOC RWY 17R			KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 22			KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 35L			KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 04			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT II/III)			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 04			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 35			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 09			KIAH	HOUSTON	TX (US)
IAP	VOR-B		1	KLVJ	HOUSTON	TX (US)
STAR	GILCO			KCXO	HOUSTON	TX (US)
STAR	RIICE			KCXO	HOUSTON	TX (US)
STAR	GILCO			KDWH	HOUSTON	TX (US)
STAR	RIICE			KDWH	HOUSTON	TX (US)
STAR	RIICE			KHOU	HOUSTON	TX (US)
STAR	GILCO			KIAH	HOUSTON	TX (US)
STAR	RIICE			KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 10/25/2007

REASON FOR REVISION:
FIX USE UPDATED.
ADDED 200K PATTERN TO PATTERN 1 DATA.
DELETED PAT 2.

DEVELOPED BY: **DATE:** 04/05/2007 **OFFICE:** AVN-120 **NAME:** DEANNA FIELDS

APPROVED BY: **DATE:** 08/14/2007 **OFFICE:** AVN-120 **NAME:** JOHN BICKERSTAFF

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: IAH APP CON
OTHER: HOU APP CON

QUALITY 2 CHECKED

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Larry Strout, Manager, Terminal Procedures & Charting Services, Central Team, AJV-353

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

ILS OR LOC RWY 14, AMDT 12
RNAV (GPS) RWY 14, AMDT 1
RNAV (GPS) RWY 18, AMDT 2
RNAV (GPS) RWY 32, AMDT 1
RNAV (GPS) RWY 36, AMDT 1
VOR RWY 14, AMDT 4

Estimated Chart Date: 01/10/2013

Runway Numbers are affected with the airport rotation; 13/31 change to 14/32 and 17/35 change to 18/36.

Please publish these changes in the National Flight Data Digest.

TEXAS

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Galveston	Scholes Intl at Galveston	Airport	KGLS / GLS	Old 6 ° East New 2 ° East	2015
Galveston		ILS	GLS	Old 6 ° East New 2 ° East	2015

If you have any questions please notify Larry H. Strout, larry.h.strout@faa.gov (405) 954-5070

Cc:AVJ-3rf
AJV-353; LStrout;sbj;x7537;7/31/12: U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Change Request for Galveston, TX (KGLS) 7-31-12
Requestor:BBerubee, AJV-353 Evaluated By:LFortier

CONCURRENCES
ROUTING SYMBOL AJV-34 SBaker
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 JOlson
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 LStrout
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-341 JAlfonso
INITIALS/SIG
DATE
ROUTING SYMBOL
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