

RADIO FIX AND HOLDING DATA RECORD

NAME: HOBBY VOR/DME **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

LATITUDE/LONGITUDE: 293920.22N/0951635.83W **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	MRA	MAA
1	HOBBY	HUB	VOR/DME	H						45000

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

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (48-004048)	293430.00N/0952938.00W	2049	5D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
UPN CONTROLLING OBSTRUCTION IN SECONDARY AREA, PRIMARY EQUIVALENT 1148.01 MSL.
HUB MAGVAR 5E.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PALACIOS			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	TRUAX			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	SETZR (RNAV)			KCVB	CASTROVILLE	TX (US)
DP	PALACIOS			KGLS	GALVESTON	TX (US)
DP	TRUAX			KGLS	GALVESTON	TX (US)
DP	PALACIOS			KAXH	HOUSTON	TX (US)
DP	PALACIOS			KCXO	HOUSTON	TX (US)
DP	PALACIOS			KDWH	HOUSTON	TX (US)
DP	PALACIOS			KEFD	HOUSTON	TX (US)
DP	TRUAX			KEFD	HOUSTON	TX (US)
DP	PALACIOS			KEYQ	HOUSTON	TX (US)
DP	PALACIOS			KHOU	HOUSTON	TX (US)
DP	TRUAX			KHOU	HOUSTON	TX (US)
DP	PALACIOS			KIAH	HOUSTON	TX (US)
DP	TRUAX			KIAH	HOUSTON	TX (US)
DP	PALACIOS			KIWS	HOUSTON	TX (US)
DP	PALACIOS			KSGR	HOUSTON	TX (US)
DP	TRUAX			KSGR	HOUSTON	TX (US)
DP	PALACIOS			KTME	HOUSTON	TX (US)
DP	PALACIOS			KT41	LA PORTE	TX (US)
DP	SETZR (RNAV)			KBAZ	NEW BRAUNFELS	TX (US)
DP	SETZR (RNAV)			KPEZ	PLEASANTON	TX (US)
DP	SETZR (RNAV)			K5C1	SAN ANTONIO	TX (US)
DP	SETZR (RNAV)			KSAT	SAN ANTONIO	TX (US)
DP	SETZR (RNAV)			KSSF	SAN ANTONIO	TX (US)
EN ROUTE	J138					(US)
EN ROUTE	J177					(US)
EN ROUTE	J37					(US)
EN ROUTE	V15					(US)
EN ROUTE	V194					(US)
EN ROUTE	V198					(US)
EN ROUTE	V20					(US)
EN ROUTE	V68					(US)
EN ROUTE	V548					TX (US)
EN ROUTE	V558					TX (US)
EN ROUTE	V76					TX (US)
IAP	ILS OR LOC RWY 17			KLBX	ANGLETON/LAKE JACKSON	TX (US)
IAP	ILS OR LOC RWY 14			KGLS	GALVESTON	TX (US)
IAP	VOR RWY 14			KGLS	GALVESTON	TX (US)
IAP	LOC/DME RWY 9			KAXH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 14			KCXO	HOUSTON	TX (US)
IAP	NBD RWY 14			KCXO	HOUSTON	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 13R			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 31L			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 4			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT II - III)			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (SA CAT I)			KHOU	HOUSTON	TX (US)
IAP	LOC RWY 22			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 15R			KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L			KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26R			KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 27			KIAH	HOUSTON	TX (US)

QUALITY
4
CHECKED

IAP	ILS OR LOC RWY 8L	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 8R	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 9	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (SA CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26R (CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26R (CAT III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26R (SA CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 27 (CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 27 (CAT III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 27 (SA CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8L (CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8L (CAT III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8L (SA CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8R (SA CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8R (SA CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 9 (SA CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 9 (SA CAT II)	KIAH	HOUSTON	TX (US)
IAP	VOR-D	KIWS	HOUSTON	TX (US)
IAP	VOR-B	KLVJ	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 35	KSGR	HOUSTON	TX (US)
IAP	VOR/DME-A	KSGR	HOUSTON	TX (US)
IAP	VOR-A	KT41	LA PORTE	TX (US)
STAR	BLUBELL	KT00	ANAHUAC	TX (US)
STAR	HUDZY	KT00	ANAHUAC	TX (US)
STAR	TCHDN	KT00	ANAHUAC	TX (US)
STAR	WAPPL (RNAV)	KT00	ANAHUAC	TX (US)
STAR	BLUBELL	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	HUDZY	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	QTRBK	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	TCHDN	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	WAPPL (RNAV)	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	BITER	KAUS	AUSTIN	TX (US)
STAR	WLEEE (RNAV)	KAUS	AUSTIN	TX (US)
STAR	BITER	KEDC	AUSTIN	TX (US)
STAR	WAPPL (RNAV)	KBYV	BAY CITY	TX (US)
STAR	BLUBELL	K54T	BAYTOWN	TX (US)
STAR	HUDZY	K54T	BAYTOWN	TX (US)
STAR	TCHDN	K54T	BAYTOWN	TX (US)
STAR	WAPPL (RNAV)	K54T	BAYTOWN	TX (US)
STAR	BLUBELL	KHPY	BAYTOWN	TX (US)
STAR	HUDZY	KHPY	BAYTOWN	TX (US)
STAR	TCHDN	KHPY	BAYTOWN	TX (US)
STAR	WAPPL (RNAV)	KHPY	BAYTOWN	TX (US)
STAR	HUDZY	K6R3	CLEVELAND	TX (US)
STAR	HUDZY	KCXO	CONROE	TX (US)
STAR	BLUBELL	KGLS	GALVESTON	TX (US)
STAR	HUDZY	KGLS	GALVESTON	TX (US)
STAR	QTRBK	KGLS	GALVESTON	TX (US)
STAR	TCHDN	KGLS	GALVESTON	TX (US)
STAR	WAPPL (RNAV)	KGLS	GALVESTON	TX (US)
STAR	BITER	KGTU	GEORGETOWN	TX (US)
STAR	BLUBELL	KAXH	HOUSTON	TX (US)
STAR	HUDZY	KAXH	HOUSTON	TX (US)
STAR	TCHDN	KAXH	HOUSTON	TX (US)
STAR	WAPPL (RNAV)	KAXH	HOUSTON	TX (US)
STAR	HUDZY	KDWH	HOUSTON	TX (US)
STAR	BLUBELL	KEFD	HOUSTON	TX (US)
STAR	HUDZY	KEFD	HOUSTON	TX (US)
STAR	QTRBK	KEFD	HOUSTON	TX (US)
STAR	TCHDN	KEFD	HOUSTON	TX (US)
STAR	WAPPL (RNAV)	KEFD	HOUSTON	TX (US)
STAR	BLUBELL	KHOU	HOUSTON	TX (US)
STAR	HUDZY	KHOU	HOUSTON	TX (US)
STAR	QTRBK	KHOU	HOUSTON	TX (US)
STAR	TCHDN	KHOU	HOUSTON	TX (US)
STAR	WAPPL (RNAV)	KHOU	HOUSTON	TX (US)
STAR	DUUUK	KIAH	HOUSTON	TX (US)
STAR	GILCO	KIAH	HOUSTON	TX (US)
STAR	HUDZY	KIAH	HOUSTON	TX (US)
STAR	BLUBELL	KIWS	HOUSTON	TX (US)
STAR	HUDZY	KIWS	HOUSTON	TX (US)
STAR	TCHDN	KIWS	HOUSTON	TX (US)
STAR	WAPPL (RNAV)	KIWS	HOUSTON	TX (US)
STAR	BLUBELL	KLVJ	HOUSTON	TX (US)
STAR	HUDZY	KLVJ	HOUSTON	TX (US)
STAR	TCHDN	KLVJ	HOUSTON	TX (US)
STAR	WAPPL (RNAV)	KLVJ	HOUSTON	TX (US)
STAR	BLUBELL	KSGR	HOUSTON	TX (US)
STAR	HUDZY	KSGR	HOUSTON	TX (US)
STAR	TCHDN	KSGR	HOUSTON	TX (US)
STAR	WAPPL (RNAV)	KSGR	HOUSTON	TX (US)
STAR	BLUBELL	KTME	HOUSTON	TX (US)
STAR	HUDZY	KTME	HOUSTON	TX (US)
STAR	TCHDN	KTME	HOUSTON	TX (US)
STAR	WAPPL (RNAV)	KTME	HOUSTON	TX (US)
STAR	BLUBELL	KT41	LA PORTE	TX (US)
STAR	HUDZY	KT41	LA PORTE	TX (US)
STAR	TCHDN	KT41	LA PORTE	TX (US)

QUALITY
4
CHECKED

STAR	WAPPL (RNAV)	KT41	LA PORTE	TX (US)
STAR	BITER	KRYW	LAGO VISTA	TX (US)
STAR	BITER	K3R9	LAKEWAY	TX (US)
STAR	HUDZY	KT78	LIBERTY	TX (US)
STAR	BRAUN (RNAV)	KSAT	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)	KSKF	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)	KSSF	SAN ANTONIO	TX (US)
STAR	BITER	KHYI	SAN MARCOS	TX (US)
STAR	BRAUN (RNAV)	KRND	UNIVERSAL CITY	TX (US)
STAR	WAPPL (RNAV)	KARM	WHARTON	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 23

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

FIX USE: DELETED RIICE STAR AND DUPLICATE BLUBELL STAR AT KHOU.

FIX USE UPDATED: KHOU RWY NUMBERS CHANGED FROM RWY 12R TO RWY 13R AND FROM RWY 30L TO RWY 31L.

ADDED MAGVAR TO REMARKS.

DEVELOPED BY: **DATE:** 07/20/2016 **OFFICE:** AJV-5423 **NAME:** THOMAS KIRKPATRICK (WILLIAM HANBY)

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** TONY LAWSON

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: CEN
 ARTCC: ZHU
 ATC FACILITY: HOUSTON APP CON, SGR ATCT.
 OTHER:

QUALITY
4
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JABBS

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294821.19N/0952811.92W

TYPE: WP, RADAR, 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	FAC FEET	MRA	MAA
1	HOUSTON	I-PRQ	LOC/DME		310.95	315.95	14.80	14.79		2000	4500
2	HUMBLE	IAH	VORTAC	H	210.67	215.67		11.12		2000	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

HOUSTON (FAC 1) AND HUMBLE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13R	1, 2		KHOU	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 13R			KHOU	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

1. FIX USE UPDATE: KHOU RWY NUMBERS CHANGED FROM RWY 12R TO RWY 13R.
2. CHANGED FAC 1 MAG/TRUE BRG FROM 310.96/313.96 TO 310.95/313.95.
3. ADDED FACILITIES USED TO ESTABLISH FIX COORDINATES IN REMARKS.

DEVELOPED BY:

DATE: 07/20/2016

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK (WILLIAM HANBY)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP, HOU ATCT.
OTHER:

QUALITY
4
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RAYCI

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294953.66N/0950419.69W

TYPE: WP, INT, DME

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	MRA	MAA
1	HOBBY	HUB	VOR/DME	H	040.35	045.35	15.00	15.00	1600	17500
2	TRINITY	MHF	VOR/DME	L	308.26	315.26		24.07	1600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE		WP	038.98	218.98	R		4	1600	6000	4	6
2	NE	HUB	VOR/DME	040.35	220.35	R	1		2000	6000	8	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPD	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	STACK (48-002896)	294930.96N/0950706.01W	590	5D
2	265	TOWER (48-014549)	294606.90N/0950104.62W	631	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

HOBBY (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE.
HOLDING PATTERN 2 EVALUATED AT 265 KTS FOR MILITARY TRAFFIC.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13R	1, 2	2	KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 4	1, 2	2	KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT II - III)	1, 2	2	KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (SA CAT 1)	1, 2	2	KHOU	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 35		1	KHOU	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 4		1	KHOU	HOUSTON	TX (US)

REQUIRED CHARTING: MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

FIX USE UPDATE: KHOU RWY NUMBERS CHANGED FROM RWY 12R TO RWY 13R.

DEVELOPED BY:

DATE: 07/20/2016

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK (WILLIAM HANBY)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP, HOU ATCT.
OTHER:

QUALITY
4
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ROYCE

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294301.63N/0952151.11W

TYPE: WP, RADAR, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	HOUSTON	I-PRQ	LOC/DME		310.95	313.95	7.14	7.13	33681	2000	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13R	1		KHOU	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 13R			KHOU	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

1. FIX USE UPDATE: KHOU RWY NUMBERS CHANGED FROM RWY 12R TO RWY 13R.
2. ADDED DIST FROM FAC IN FEET TO FAC 1.
3. CHANGED FAC 1 MAG/TRUE BRG FROM 310.96/313.96 TO 310.95/313.95.

DEVELOPED BY: DATE: 07/20/2016

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK (WILLIAM HANBY)

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP, HOU ATCT.
OTHER:

QUALITY
4
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SCHOLLES VOR/DME **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4

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	MRA FEET	MAA
1	SCHOLLES	VUH	VOR/DME	L						45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SW	VUH	VOR/DME	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.
NAME CHANGED FROM SCHOLLES VORTAC TO SCHOLLES VOR/DME.
VUH MAGVAR 6E.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HOODO (RNAV)			KT00	ANAHUAC	TX (US)
DP	WATFO (RNAV)			KT00	ANAHUAC	TX (US)
DP	HOODO (RNAV)			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	TRUAX			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	WATFO (RNAV)			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	HOODO (RNAV)			K54T	BAYTOWN	TX (US)
DP	WATFO (RNAV)			K54T	BAYTOWN	TX (US)
DP	HOODO (RNAV)			KHPY	BAYTOWN	TX (US)
DP	WATFO (RNAV)			KHPY	BAYTOWN	TX (US)
DP	HOODO (RNAV)			K6R3	CLEVELAND	TX (US)
DP	WATFO (RNAV)			K6R3	CLEVELAND	TX (US)
DP	HOODO (RNAV)			KGLS	GALVESTON	TX (US)
DP	TRUAX			KGLS	GALVESTON	TX (US)
DP	WATFO (RNAV)			KGLS	GALVESTON	TX (US)
DP	HOODO (RNAV)			KAXH	HOUSTON	TX (US)
DP	WATFO (RNAV)			KAXH	HOUSTON	TX (US)
DP	HOODO (RNAV)			KCXO	HOUSTON	TX (US)
DP	WATFO (RNAV)			KCXO	HOUSTON	TX (US)
DP	HOODO (RNAV)			KDWH	HOUSTON	TX (US)
DP	WATFO (RNAV)			KDWH	HOUSTON	TX (US)
DP	HOODO (RNAV)			KEFD	HOUSTON	TX (US)
DP	TRUAX			KEFD	HOUSTON	TX (US)
DP	WATFO (RNAV)			KEFD	HOUSTON	TX (US)
DP	HOODO (RNAV)			KHOU	HOUSTON	TX (US)
DP	PEECE (RNAV)			KHOU	HOUSTON	TX (US)
DP	TRUAX			KHOU	HOUSTON	TX (US)
DP	FLYZA (RNAV)			KIAH	HOUSTON	TX (US)
DP	HOODO (RNAV)			KIAH	HOUSTON	TX (US)
DP	TRUAX			KIAH	HOUSTON	TX (US)
DP	HOODO (RNAV)			KIWS	HOUSTON	TX (US)
DP	WATFO (RNAV)			KIWS	HOUSTON	TX (US)
DP	HOODO (RNAV)			KLJV	HOUSTON	TX (US)
DP	WATFO (RNAV)			KLJV	HOUSTON	TX (US)
DP	HOODO (RNAV)			KSGR	HOUSTON	TX (US)
DP	TRUAX			KSGR	HOUSTON	TX (US)
DP	WATFO (RNAV)			KSGR	HOUSTON	TX (US)
DP	HOODO (RNAV)			KTME	HOUSTON	TX (US)
DP	WATFO (RNAV)			KTME	HOUSTON	TX (US)
DP	HOODO (RNAV)			KT41	LA PORTE	TX (US)
DP	WATFO (RNAV)			KT41	LA PORTE	TX (US)
DP	HOODO (RNAV)			KT78	LIBERTY	TX (US)
DP	WATFO (RNAV)			KT78	LIBERTY	TX (US)
EN ROUTE	B753					(US)
EN ROUTE	L207					(US)
EN ROUTE	V556					(US)
EN ROUTE	V70					(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 (ALT MA)			KEFD	HOUSTON	TX (US)

QUALITY
4
CHECKED

IAP	ILS OR LOC RWY 22 (ALT MA)		KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 35L (ALT MA)		KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 13R		KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 31L (ALT MA)	1	KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 4		KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT II - III)		KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (SA CAT I)		KHOU	HOUSTON	TX (US)
IAP	LOC RWY 22		KHOU	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 13R		KHOU	HOUSTON	TX (US)
IAP	VOR-A		KT41	LA PORTE	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

FIX USE UPDATE: KHOU RWY NUMBERS CHANGED FROM RWY 12R TO RWY 13R AND FROM RWY 30L TO RWY 31L.

DEVELOPED BY: **DATE:** 07/20/2016 **OFFICE:** AJV-5423 **NAME:** THOMAS KIRKPATRICK (WILLIAM HANBY)

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** TONY LAWSON

SIGNATURE:

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

