TRANSMITTAL OF AIRWAYS / ROUTE DATA

AIRWAY NO. OR ROUTE	FROM / TO	ROUTINE OR DOCKET NO.	CONTROLLING @ TERRAIN/OBSTRUCTION AND COORDINATES	MRA / MOCA	MAA / MEA	GNSS MEA	CHANGE OVER POINT	FIX MRA/MCA	REMARKS	FLIGHT INSPECTION DATES
V198	JUNCTION, TX VORTAC SAN ANTONIO, TX VORTAC		TOWER 3048@ 295027.00N / 0984933.00W TERRAIN 2300 302539.00N / 0993400.00W	4100 -4100-	17500 4100				RAISE MEA. DELETE MRA FLAG AT COMFY. COP MOVED TO MID POINT	PENDING
									COMBINED SEGMENTS	
									CLEAR FDC NOTAM	

DATE	OFFICE	TITLE	SIGNATURE
	AJV-311	MANAGER	RAY NUSSEAR

RADIO FIX AND HOLDING DATA RECORD

NAME: DOSSY **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 302246.55N/0993010.38W **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	JUNCTION	JCT	VORTAC	H	120.64	128.64	20.90	20.90		4100	17500

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

REMARKS:
JUNCTION (FAC 1) USED TO ESTABLISH FIX COORDINATES
RETAIN FIX PER ZHU REQUEST FOR COORDINATION/LOCAL ADAPTATION

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V198	1				(US)

REQUIRED CHARTING: CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
UPDATED FIX TYPE.
DELETED FAC 2.
RAISED FAC 1 MRA TO 4100.
ADDED IN REMARKS "RETAIN FIX PER ZHU REQUEST FOR COORDINATION/LOCAL ADAPTATION".
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/28/2012 **OFFICE:** AJV-311 **NAME:** TOBY HUFF (STEVE VANCAMP)

APPROVED BY: **DATE:** **OFFICE:** AJV-311 **NAME:** RAY NUSSEAR

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY:
OTHER:

QA B APPROVED

RADIO FIX AND HOLDING DATA RECORD

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

INFO ONLY

LATITUDE/LONGITUDE: 303552.86N/0994902.92W **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	JUNCTION	JCT	VORTAC	H							45000

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

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	NW	JCT	VORTAC	324.37	144.37	R	1		4000	8000	4	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-000063)	304210.00N/0995456.00W	2623	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	INDUSTRY			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	AUSTIN			KAUS	AUSTIN	TX (US)
DP	INDUSTRY			KGLS	GALVESTON	TX (US)
DP	INDUSTRY			KAXH	HOUSTON	TX (US)
DP	INDUSTRY			KCXO	HOUSTON	TX (US)
DP	JUNCTION			KCXO	HOUSTON	TX (US)
DP	INDUSTRY			KDWH	HOUSTON	TX (US)
DP	JUNCTION			KDWH	HOUSTON	TX (US)
DP	INDUSTRY			KEFD	HOUSTON	TX (US)
DP	INDUSTRY			KEYQ	HOUSTON	TX (US)
DP	INDUSTRY			KHOU	HOUSTON	TX (US)
DP	INDUSTRY			KIAH	HOUSTON	TX (US)
DP	JUNCTION			KIAH	HOUSTON	TX (US)
DP	INDUSTRY			KIWS	HOUSTON	TX (US)
DP	INDUSTRY			KSGR	HOUSTON	TX (US)
DP	INDUSTRY			KTME	HOUSTON	TX (US)
DP	INDUSTRY			KT41	LA PORTE	TX (US)
DP	MIDLAND			KMAF	MIDLAND	TX (US)
EN ROUTE	J15					(US)
EN ROUTE	J2-86					(US)
EN ROUTE	J86					(US)
EN ROUTE	Q20					(US)
EN ROUTE	V198-222					(US)
EN ROUTE	V306					(US)
EN ROUTE	V556					(US)
EN ROUTE	V68					(US)
EN ROUTE	V76					(US)
IAP	RNAV (GPS) RWY 17			KJCT	JUNCTION	TX (US)
IAP	VOR-A		1	KJCT	JUNCTION	TX (US)
IAP	RNAV (GPS) RWY 14			KECU	ROCKSPRINGS	TX (US)
IAP	VOR RWY 14			KECU	ROCKSPRINGS	TX (US)
IAP	NDB OR GPS RWY 18			KSOA	SONORA	TX (US)
STAR	CENTERPOINT			KSAT	SAN ANTONIO	TX (US)
STAR	STONEWALL			KSAT	SAN ANTONIO	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 12/17/2009

REASON FOR REVISION:
HOLDING LIMITED NOTE MOVED FROM REMARKS TO HOLDING RESTRICTIONS.
REMARK ADDED: PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING CONTROLLING OBSTRUCTION UPDATED.

DEVELOPED BY: **DATE:** 08/21/2009 **OFFICE:** AVN-101 **NAME:** EUGENE NEWTON (LYNN PACETTI)

OA B APPROVED

APPROVED BY: **DATE:** **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: SAN ANTONIO VORTAC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 293838.51N/0982740.73W **TYPE:**

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	FEET	MRA	MAA
1	SAN ANTONIO	SAT	VORTAC	H							45000

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	INDUSTRY			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	PALACIOS			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	JOE POOL			KGKY	ARLINGTON	TX (US)
DP	AUSTIN			KAUS	AUSTIN	TX (US)
DP	JOE POOL			KADS	DALLAS	TX (US)
DP	JOE POOL			KDAL	DALLAS	TX (US)
DP	VENUS			KDAL	DALLAS	TX (US)
DP	JOE POOL			KRBD	DALLAS	TX (US)
DP	JOE POOL			KTKI	DALLAS	TX (US)
DP	JOE POOL			KDFW	DALLAS-FORT WORTH	TX (US)
DP	NELYN (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDTO	DENTON	TX (US)
DP	JOE POOL			KAFW	FORT WORTH	TX (US)
DP	JOE POOL			KFTW	FORT WORTH	TX (US)
DP	JOE POOL			KFWS	FORT WORTH	TX (US)
DP	JOE POOL			KNFW	FORT WORTH	TX (US)
DP	INDUSTRY			KGLS	GALVESTON	TX (US)
DP	PALACIOS			KGLS	GALVESTON	TX (US)
DP	JOE POOL			KGPM	GRAND PRAIRIE	TX (US)
DP	INDUSTRY			KAXH	HOUSTON	TX (US)
DP	PALACIOS			KAXH	HOUSTON	TX (US)
DP	INDUSTRY			KCXO	HOUSTON	TX (US)
DP	JUNCTION			KCXO	HOUSTON	TX (US)
DP	PALACIOS			KCXO	HOUSTON	TX (US)
DP	INDUSTRY			KDWH	HOUSTON	TX (US)
DP	JUNCTION			KDWH	HOUSTON	TX (US)
DP	PALACIOS			KDWH	HOUSTON	TX (US)
DP	INDUSTRY			KEFD	HOUSTON	TX (US)
DP	PALACIOS			KEFD	HOUSTON	TX (US)
DP	INDUSTRY			KEYQ	HOUSTON	TX (US)
DP	PALACIOS			KEYQ	HOUSTON	TX (US)
DP	INDUSTRY			KHOU	HOUSTON	TX (US)
DP	PALACIOS			KHOU	HOUSTON	TX (US)
DP	INDUSTRY			KIAH	HOUSTON	TX (US)
DP	JUNCTION			KIAH	HOUSTON	TX (US)
DP	PALACIOS			KIAH	HOUSTON	TX (US)
DP	INDUSTRY			KIWS	HOUSTON	TX (US)
DP	PALACIOS			KIWS	HOUSTON	TX (US)
DP	INDUSTRY			KSGR	HOUSTON	TX (US)
DP	PALACIOS			KSGR	HOUSTON	TX (US)
DP	INDUSTRY			KTME	HOUSTON	TX (US)
DP	PALACIOS			KTME	HOUSTON	TX (US)
DP	INDUSTRY			KT41	LA PORTE	TX (US)
DP	PALACIOS			KT41	LA PORTE	TX (US)
DP	JOE POOL			KLNC	LANCASTER	TX (US)
DP	JOE POOL			KTKI	MC KINNEY	TX (US)
DP	JOE POOL			KHQZ	MESQUITE	TX (US)
DP	ALAMO			KSAT	SAN ANTONIO	TX (US)
DP	BOWIE			KSAT	SAN ANTONIO	TX (US)
DP	LEJON			KSAT	SAN ANTONIO	TX (US)
DP	LEJON			KSKF	SAN ANTONIO	TX (US)
DP	ALAMO			KSSF	SAN ANTONIO	TX (US)
DP	BOWIE			KSSF	SAN ANTONIO	TX (US)
DP	LEJON			KSSF	SAN ANTONIO	TX (US)
DP	LEJON			KRND	UNIVERSAL CITY	TX (US)
EN ROUTE	J138					(US)
EN ROUTE	J17					(US)
EN ROUTE	J2					(US)
EN ROUTE	J21					(US)
EN ROUTE	J21-25					(US)
EN ROUTE	J23-131					(US)
EN ROUTE	J25					(US)
EN ROUTE	J27					(US)
EN ROUTE	J65					(US)
EN ROUTE	V163					(US)
EN ROUTE	V17					(US)
EN ROUTE	V198					(US)
EN ROUTE	V198-212					(US)
EN ROUTE	V358-568					(US)

Q4 B APPROVED

EN ROUTE	V550			(US)
EN ROUTE	V550-568			(US)
EN ROUTE	V68			(US)
IAP	RNAV (GPS) RWY 13	K5T9	EAGLE PASS	TX (US)
IAP	RNAV (GPS) RWY 31	K5T9	EAGLE PASS	TX (US)
IAP	NDB RWY 35R	KHDO	HONDO	TX (US)
IAP	RNAV (GPS) RWY 17L	KHDO	HONDO	TX (US)
IAP	RNAV (GPS) RWY 35R	KHDO	HONDO	TX (US)
IAP	RNAV (GPS) RWY 13	KBAZ	NEW BRAUNFELS	TX (US)
IAP	RNAV (GPS) RWY 31	KBAZ	NEW BRAUNFELS	TX (US)
IAP	RNAV (GPS) RWY 35	KBAZ	NEW BRAUNFELS	TX (US)
IAP	VOR/DME-A	KBAZ	NEW BRAUNFELS	TX (US)
IAP	ILS OR LOC RWY 12R	KSAT	SAN ANTONIO	TX (US)
IAP	ILS OR LOC RWY 30L	KSAT	SAN ANTONIO	TX (US)
IAP	ILS OR LOC RWY 4	KSAT	SAN ANTONIO	TX (US)
IAP	ILS RWY 12R (CAT II)	KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 4	KSAT	SAN ANTONIO	TX (US)
IAP	ILS OR LOC RWY 13	KHYI	SAN MARCOS	TX (US)
IAP	NDB RWY 13	KHYI	SAN MARCOS	TX (US)
IAP	RNAV (GPS) RWY 13	KHYI	SAN MARCOS	TX (US)
IAP	NDB RWY 33	KUVA	UVALDE	TX (US)
OTHER	PITCH/CATCH POINT	KSAT	SAN ANTONIO	TX (US)
STAR	CARNE	KT00	ANAHUAC	TX (US)
STAR	DYNMO (RNAV)	KT00	ANAHUAC	TX (US)
STAR	HAMMU (RNAV)	KT00	ANAHUAC	TX (US)
STAR	ROYOH	KT00	ANAHUAC	TX (US)
STAR	STROS (RNAV)	KT00	ANAHUAC	TX (US)
STAR	CARNE	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	DYNMO (RNAV)	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	HAMMU (RNAV)	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	ROYOH	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	STROS (RNAV)	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	CARNE	K54T	BAYTOWN	TX (US)
STAR	DYNMO (RNAV)	K54T	BAYTOWN	TX (US)
STAR	HAMMU (RNAV)	K54T	BAYTOWN	TX (US)
STAR	ROYOH	K54T	BAYTOWN	TX (US)
STAR	STROS (RNAV)	K54T	BAYTOWN	TX (US)
STAR	CARNE	KHPY	BAYTOWN	TX (US)
STAR	DYNMO (RNAV)	KHPY	BAYTOWN	TX (US)
STAR	HAMMU (RNAV)	KHPY	BAYTOWN	TX (US)
STAR	ROYOH	KHPY	BAYTOWN	TX (US)
STAR	STROS (RNAV)	KHPY	BAYTOWN	TX (US)
STAR	KNEAD	KDAL	DALLAS	TX (US)
STAR	GLEN ROSE	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	JUMBO	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	SLUGG	KAFW	FORT WORTH	TX (US)
STAR	CARNE	KGLS	GALVESTON	TX (US)
STAR	DYNMO (RNAV)	KGLS	GALVESTON	TX (US)
STAR	HAMMU (RNAV)	KGLS	GALVESTON	TX (US)
STAR	ROYOH	KGLS	GALVESTON	TX (US)
STAR	STROS (RNAV)	KGLS	GALVESTON	TX (US)
STAR	CARNE	KAXH	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KAXH	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KAXH	HOUSTON	TX (US)
STAR	ROYOH	KAXH	HOUSTON	TX (US)
STAR	STROS (RNAV)	KAXH	HOUSTON	TX (US)
STAR	CARNE	KCXO	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KCXO	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KCXO	HOUSTON	TX (US)
STAR	ROYOH	KCXO	HOUSTON	TX (US)
STAR	STROS (RNAV)	KCXO	HOUSTON	TX (US)
STAR	CARNE	KDWH	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KDWH	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KDWH	HOUSTON	TX (US)
STAR	ROYOH	KDWH	HOUSTON	TX (US)
STAR	STROS (RNAV)	KDWH	HOUSTON	TX (US)
STAR	CARNE	KEFD	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KEFD	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KEFD	HOUSTON	TX (US)
STAR	ROYOH	KEFD	HOUSTON	TX (US)
STAR	STROS (RNAV)	KEFD	HOUSTON	TX (US)
STAR	CARNE	KEYQ	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KEYQ	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KEYQ	HOUSTON	TX (US)
STAR	ROYOH	KEYQ	HOUSTON	TX (US)
STAR	STROS (RNAV)	KEYQ	HOUSTON	TX (US)
STAR	CARNE	KHOU	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KHOU	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KHOU	HOUSTON	TX (US)
STAR	LISSE	KHOU	HOUSTON	TX (US)
STAR	ROYOH	KHOU	HOUSTON	TX (US)
STAR	STROS (RNAV)	KHOU	HOUSTON	TX (US)
STAR	CARNE	KIAH	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KIAH	HOUSTON	TX (US)
STAR	GLAND	KIAH	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KIAH	HOUSTON	TX (US)
STAR	ROYOH	KIAH	HOUSTON	TX (US)
STAR	STROS (RNAV)	KIAH	HOUSTON	TX (US)
STAR	CARNE	KIWS	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KIWS	HOUSTON	TX (US)

STAR	HAMMU (RNAV)	KIWS	HOUSTON	TX (US)
STAR	ROYOH	KIWS	HOUSTON	TX (US)
STAR	STROS (RNAV)	KIWS	HOUSTON	TX (US)
STAR	CARNE	KLVJ	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KLVJ	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KLVJ	HOUSTON	TX (US)
STAR	ROYOH	KLVJ	HOUSTON	TX (US)
STAR	STROS (RNAV)	KLVJ	HOUSTON	TX (US)
STAR	CARNE	KSGR	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KSGR	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KSGR	HOUSTON	TX (US)
STAR	ROYOH	KSGR	HOUSTON	TX (US)
STAR	STROS (RNAV)	KSGR	HOUSTON	TX (US)
STAR	CARNE	KTME	HOUSTON	TX (US)
STAR	DYNMO (RNAV)	KTME	HOUSTON	TX (US)
STAR	HAMMU (RNAV)	KTME	HOUSTON	TX (US)
STAR	ROYOH	KTME	HOUSTON	TX (US)
STAR	STROS (RNAV)	KTME	HOUSTON	TX (US)
STAR	CARNE	KT41	LA PORTE	TX (US)
STAR	DYNMO (RNAV)	KT41	LA PORTE	TX (US)
STAR	HAMMU (RNAV)	KT41	LA PORTE	TX (US)
STAR	ROYOH	KT41	LA PORTE	TX (US)
STAR	STROS (RNAV)	KT41	LA PORTE	TX (US)
STAR	CENTERPOINT	KSAT	SAN ANTONIO	TX (US)
STAR	LEMIG	KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	KSAT	SAN ANTONIO	TX (US)
STAR	STONEWALL	KSAT	SAN ANTONIO	TX (US)

INFO ONLY

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 02/14/2008

REASON FOR REVISION:
REMOVED SJT AFSS FROM BLOCK 1C, ADDED SAT TOWER.
UPDATED FIX USE, REMOVED V77.

DEVELOPED BY: **DATE:** 09/13/2007 **OFFICE:** AVN-120 **NAME:** JON DENTON

APPROVED BY: **DATE:** 01/08/2008 **OFFICE:** AVN-120 **NAME:** JOHN BICKERSTAFF

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: SAT APP CON/ATCT
OTHER:

QA B APPROVED