

RADIO FIX AND HOLDING DATA RECORD

NAME: ALAMO LOM STATE: TX COUNTRY: US ICAO REGION CODE: K4
 LATITUDE/LONGITUDE: 293628.24N/0983410.12W 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	FAC FEET	MRA	MAA
1	ALAMO	AN	LOM							2800	6000
2	SAN ANTONIO	I-ANT	LOC/DME		307.60	311.60	7.43	7.44	45191	2800	5200
3	SAN ANTONIO	SAT	VORTAC	H	241.07	249.07		6.06		3800	17500

HOLDING: HOLDING TYPE OF ACTION: MODIFY

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	NW	AN	LOM	307.60	127.60	R	1	3000 6000	4 5
2	NW		WP	307.56	127.56	R	4	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	294015.00N/0984345.00W	1943	4E
2	200	AAO	294109.00N/0984448.00W	1989	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE ALAMO LOM.
 ACTUAL FACILITY LOCATION IS 293627.45N/0983410.92W.
 ILS DME COORDINATES: 293129.11N/0982749.94W
 PRECIPITIOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13R	1, 2, 3		KSAT	SAN ANTONIO	TX (US)
IAP	ILS OR LOC RWY 31L	1	1	KSAT	SAN ANTONIO	TX (US)
IAP	ILS RWY 13R (CAT II)	1, 2, 3		KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 31L		2	KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	COPTER RNAV (GPS) 145 (SPECIAL)			KXS85	SAN ANTONIO	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

- DELETED MAG/TRUE BRG FROM FIX MAKE-UP FACILITY ALAMO LOM.
- CHANGED FIX MAKE-UP FACILITY SAN ANTONIO LOC/DME MAG BRG FROM 306.60 TO 307.60.
- CHANGED HOLDING PATTERN 1 RAD/CRS INBOUND FROM 306.60/126.60 TO 307.60/127.60.
- CHANGED HOLDING PATTERN 2 RAD/CRS INBOUND FROM 303.56/123.56 TO 307.56/127.56.
- CHANGED FIX USE KSAT ILS OR LOC RWY 12R TO 13R, ILS RWY 12R (CAT II) TO 13R, RNAV (GPS) Y RWY 12R TO 13R, RNAV (GPS) Y RWY 30L TO 31L, ILS OR LOC 30L TO ILS OR LOC RWY 31L, AND RNAV (RNP) Z RWY 12R TO 13R.
- DELETED FAC 2,3 FROM FIX USE KSAT ILS OR LOC RWY 31L.

DEVELOPED BY: DATE: 10/06/2016 OFFICE: AJV-5423 NAME: STEVE NELSON

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

SIGNATURE:

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



RADIO FIX AND HOLDING DATA RECORD

NAME: CEXOD

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293220.94N/0983630.25W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (RNP) Z RWY 13R

FAC

PAT

AIRPORT IDENT
KSAT

CITY
SAN ANTONIO

STATE
TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO RWY 13R.

DEVELOPED BY:

DATE: 10/12/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFCGS

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293809.04N/0983227.80W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NAME CHANGED FROM IXIWIY TO CFCGS.

FIX USE:
USE TYPE
IAP

USE TITLE
RNAV (RNP) Z RWY 13R

FAC

PAT

AIRPORT IDENT
KSAT

CITY
SAN ANTONIO

STATE
TX (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. FIX NAME CHANGED FROM IXIWIY TO CFCGS.
2. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO RWY 13R.

DEVELOPED BY:

DATE: 10/12/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFCGV

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293340.21N/0983425.65W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NAME CHANGED FROM UQOPY TO CFCGV.

FIX USE:
USE TYPE
IAP

USE TITLE
RNAV (RNP) Z RWY 13R

FAC

PAT

AIRPORT IDENT
KSAT

CITY
SAN ANTONIO

STATE
TX (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. FIX NAME CHANGED FROM UQOPY TO CFCGV.
2. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO RWY 13R.

DEVELOPED BY:

DATE: 10/12/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CRISS

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293931.25N/0982536.95W

TYPE: WP, 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 NM	FAC FEET	MRA	MAA
1	SAN ANTONIO	SAT	VORTAC	H	055.99	063.99	2.00	2.00		3100	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V68	1				(US)
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)			KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	1		KSAT	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)			KSKF	SAN ANTONIO	TX (US)
STAR	MARCS	1		KSKF	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)			KSSF	SAN ANTONIO	TX (US)
STAR	MARCS	1		KSSF	SAN ANTONIO	TX (US)
STAR	BRAUN (RNAV)			KRND	UNIVERSAL CITY	TX (US)
STAR	MARCS	1		KRND	UNIVERSAL CITY	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO RWY 13R.
2. ADDED REQUIRED CHARTING IAP.

DEVELOPED BY:

DATE: 10/12/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: STEVE NELSON

SIGNATURE:

DISTRIBUTION:

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



RADIO FIX AND HOLDING DATA RECORD

NAME: HASDO STATE: TX COUNTRY: US ICAO REGION CODE: K4
 LATITUDE/LONGITUDE: 294036.69N/0983931.18W 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	MRA	MAA
1	SAN ANTONIO	I-ANT	LOC/DME		307.60	311.60	13.66	13.67	3000	5200
2	SAN ANTONIO	SAT	VORTAC	H	272.83	280.83		10.50	3000	17500

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING DME	ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW		WP	307.51	127.51	R		4	3500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	294536.00N/0984930.00W	2156	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

SAN ANTONIO (FAC 1) USED TO ESTABLISH FIX COORDINATES
 ILS DME COORDINATES 293129.11/0982749.94
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13R	1, 2		KSAT	SAN ANTONIO	TX (US)
IAP	ILS RWY 13R (CAT II)	1, 2		KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 13R		1	KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 31L			KSAT	SAN ANTONIO	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED FIX MAKE-UP FACILITY I-ANT MAG BRG FROM 306.60 TO 307.60.
2. CHANGED HOLDING PATTERN RAD/CRS INBOUND FROM 303.51/123.51 TO 307.51/127.51.
3. ADDED REMARK SAN ANTONIO (FAC 1) USED TO ESTABLISH FIX COORDINATES.
4. CHANGED FIX USE KSAT ILS OR LOC RWY 12R, ILS RWY 12R (CAT II), RNAV (GPS) Y RWY 12R, AND RNAV (RNP) Z RWY 12R TO RWY 13R.
5. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 30L TO RWY 31L.

DEVELOPED BY: DATE: 10/12/2016 OFFICE: AJV-5423 NAME: STEVE NELSON

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

SIGNATURE:

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



RADIO FIX AND HOLDING DATA RECORD

NAME: HUKRA

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292724.89N/0983224.04W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (RNP) Z RWY 13R

FAC

PAT

AIRPORT IDENT
KSAT

CITY
SAN ANTONIO

STATE
TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO RWY 13R.

DEVELOPED BY:

DATE: 10/12/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ITLIW

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294022.28N/0983204.89W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (RNP) Z RWY 13R

FAC

PAT

AIRPORT IDENT
KSAT

CITY
SAN ANTONIO

STATE
TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO RWY 13R.

DEVELOPED BY:

DATE: 10/12/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OSWOD

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293521.02N/0983243.39W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (RNP) Z RWY 13R

FAC

PAT

AIRPORT IDENT
KSAT

CITY
SAN ANTONIO

STATE
TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 12R TO RWY 13R.

DEVELOPED BY:

DATE: 10/12/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: POYIG

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 292800.25N/0982315.93W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) Y RWY 31L			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	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	BRAUN (RNAV)			KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED FIX USE KSAT RNAV (GPS) Y RWY 12R AND RNAV (RNP) Z RWY 12R TO RWY 13R.
2. CHANGED FIX USE KSAT RNAV (GPS) Y RWY 30L TO RWY 31L.

DEVELOPED BY:

DATE: 10/12/2016

OFFICE: AJV-5423

NAME: STEVE NELSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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



RADIO FIX AND HOLDING DATA RECORD

NAME: REUBE STATE: TX COUNTRY: US ICAO REGION CODE: K4
 LATITUDE/LONGITUDE: 294517.74N/0984535.67W 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	MRA	MAA
1	SAN ANTONIO	I-ANT	LOC/DME		307.60	311.60	20.72	20.72	3000	10000
2	STONEWALL	STV	VORTAC	H	177.97	185.97		27.19	3000	10000
3	ALAMO	AN	LOM		307.62	311.62		13.29	3000	10000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-ANT	LOC/DME	R-308	21	3000	10000

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES DME	MIN	MAX	TEMPLATES MIN	MAX
1	NW		WP	296.77	116.77	R		4	4200	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-005697)	295027.00N/0984933.00W	3048	5E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

SAN ANTONIO (FAC 1) USED TO ESTABLISH FIX COORDINATES
 ILS DME COORDINATES: 293129.11/0982749.94
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13R	1, 2, 3		KSAT	SAN ANTONIO	TX (US)
IAP	ILS RWY 13R (CAT II)	1, 2, 3		KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 13R			KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (RNP) Z RWY 31L		1	KSAT	SAN ANTONIO	TX (US)
IAP	RNAV (GPS) RWY 15			KSKF	SAN ANTONIO	TX (US)
STAR	CENTERPOINT	1, 2, 3		KSAT	SAN ANTONIO	TX (US)
STAR	STONEWALL	1, 2, 3		KSAT	SAN ANTONIO	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. CHANGED FIX MAKE-UP FACILITY I-ANT MAG BRG FROM 306.60 TO 307.60.
2. CHANGED FIX MAKE-UP FACILITY ALAMO LOM MAG BRG FROM 306.62 TO 307.62.
3. CHANGED I-ANT ESV RADIAL FROM BRG-304 TO 308.
4. CHANGED HOLDING PATTERN RAD/CRS INBOUND FROM 292.77/112.77 TO 296.77/116.77.
5. ADDED REMARK SAN ANTONIO (FAC 1) USED TO ESTABLISH FIX COORDINATES.
6. CHANGED FIX USE KSAT ILS OR LOC RWY 12R AND ILS RWY 12R (CAT II) TO RWY 13R.
7. CHANGED FIX USE KSAT RNAV (RNP) Z RWY 30L TO RWY 31L.
8. ADDED FIX USE KSAT RNAV (RNP) Z RWY 13R.

DEVELOPED BY: DATE: 10/06/2016 OFFICE: AJV-5423 NAME: STEVE NELSON

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

SIGNATURE:

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

