

RADIO FIX AND HOLDING DATA RECORD

NAME: ACEKO

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 390113.76N/1203100.15W

TYPE: 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	SQUAW VALLEY	SWR	VOR/DME	VL	214.38	230.38	15.00	15.00		11200	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Z OR LOC Z RWY 22L	1		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)	1		KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CAMRR

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 384457.87N/1205724.23W

TYPE: 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	FEET	MRA	MAA
1	SACRAMENTO	I-MHR	LOC/DME		040.72	053.72	21.03	21.03		6100	8100
2	HANGTOWN	HNW	VOR/DME	L	261.72	278.72		9.85		6100	17500
3	BEALE	BAB	TACAN	L	119.40	135.40	32.36	32.36		6100	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-MHR	LOC/DME	R-041	22	5000	8100

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	I-MHR	LOC/DME	040.72	220.72	L	1		6100	8100	9	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	385351.00N/1203927.00W	4899	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	152

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUIREMENT

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

SACRAMENTO (FAC 1) USED TO ESTABLISH FIX COORDINATES.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 I-MHR DME COORDINATES: 383230.14N/1211902.09W.
 152 FEET ADJUSTMENT WAS APPLIED TO KEEP MINIMUM HILPT HOLDING ALTITUDE AT 6100 FEET.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Z OR LOC Z RWY 22L	1, 2, 3	1	KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)	1, 2	1	KMHR	SACRAMENTO	CA (US)
STAR	AMRVR TWO (RNAV)	1		KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."
3. ADDED AMRVR TWO ARRIVAL (RNAV) TO FIX USE.
4. ADDED STAR TO REQUIRED CHARTING.
5. LOWERED FACILITY MAA AND ESV MAX ALTITUDE FROM 11000 TO 8100 AT SACRAMENTO MATHER LOC/DME (I-MHR).
6. LOWERED PAT 1 MAX ALTITUDE FROM 11000 TO 8100.
7. UPDATED PAT 1 MAX TEMPLATE FROM 10 TO 11; AND HOLDING AIRSPEED FROM 230KTS TO 200KTS.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: COLOM

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 385020.30N/1205212.07W

TYPE: 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	SQUAW VALLEY	SWR	VOR/DME	VL	218.11	234.11	34.74	34.74	11000	17500
2	HANGTOWN	HNW	VOR/DME	L	303.44	320.44	8.89	8.89	6000	17500
3	SACRAMENTO	SAC	VORTAC	H	036.30	053.30	39.85	39.85	5000	45000
4	MUSTANG	FMG	VORTAC	H	218.15	234.15	70.21	70.21	18000	45000

FIX RESTRICTIONS:

MCA V6 9500 NORTHEAST BOUND

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	NE	SWR	VOR/DME	218.11	218.11	L	1	11000 17500	11 18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	390239.00N/1203503.00W	5338	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	296

REASON FOR NONSTANDARD HOLDING:

PAT 1 REQUESTED BY AIR TRAFFIC.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

HANGTOWN (FAC 2) AND SACRAMENTO (FAC 3) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J32	3, 4				(US)
EN ROUTE	V332	1, 2, 3				(US)
EN ROUTE	V6	1, 2, 3	1			(US)
IAP	ILS Z OR LOC Z RWY 22L	1, 2		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)	1, 2		KMHR	SACRAMENTO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."
3. REMOVED WP FROM FIX TYPE.
4. CHANGED SWR NAVAID CLASS FROM L TO VL.
5. UPDATED HOLDING PAT 1 LEG LENGTH TIME FROM 1-1/2 TO 1.
6. DELETED HOLDING PATTERN 2.
7. DELETED HOLDING PATTERN 2 ASSOCIATION.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: COSKA

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383249.90N/1210316.56W

TYPE: 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	FEET	MRA	MAA
1	SACRAMENTO	SAC	VORTAC	H	058.01	075.01	24.22	24.22		3000	17500
2	LINDEN	LIN	VOR/DME	H	338.18	355.18	28.43	28.43		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 DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW	SAC	VORTAC	058.01	058.01	R	1	3500 6000	5 6
2	S	LIN	VOR/DME	338.18	338.18	R	1	3500 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	383503.00N/1205830.00W	1332	4E
1	310	AAO	383336.00N/1205130.00W	1893	4E
2	200	AAO	383539.00N/1205745.00W	1405	4E
2	310	AAO	383403.00N/1205133.00W	1930	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS Z RWY 22L (SA CAT I, SA CAT II)	KMHR	SACRAMENTO	CA (US)
1	ILS Y OR LOC Y RWY 22L	KMHR	SACRAMENTO	CA (US)
1	ILS Z OR LOC Z RWY 22L	KMHR	SACRAMENTO	CA (US)
2	ILS Z OR LOC Z RWY 22L ALT MA	KMHR	SACRAMENTO	CA (US)
2	ILS Y OR LOC Y RWY 22L ALT MA	KMHR	SACRAMENTO	CA (US)

REMARKS:

SACRAMENTO (FAC 1) AND LINDEN (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Y OR LOC Y RWY 22L	1, 2	1	KMHR	SACRAMENTO	CA (US)
IAP	ILS Z OR LOC Z RWY 22L	1, 2	1	KMHR	SACRAMENTO	CA (US)
IAP	ILS Y OR LOC Y RWY 22L ALT MA	2	2	KMHR	SACRAMENTO	CA (US)
IAP	ILS Z OR LOC Z RWY 22L ALT MA	2	2	KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)	1, 2	1	KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."
3. ADDED ILS Y OR LOC Y RWY 22L TO FIX USE.
4. ADDED ILS Y OR LOC Y RWY 22L ALT MA TO FIX USE.
5. ADDED ILS Z OR LOC Z RWY 22L ALT MA TO FIX USE.
6. UPDATED HOLD CONTROLLING OBSTRUCTIONS.
7. CHANGED MINIMUM HOLDING ALTITUDE FROM 3000 TO 3500.
8. ADDED ILS Z RWY 22L (SA CAT I, SA CAT II), ILS Y OR LOC Y RWY 22L, ILS Z OR LOC Z RWY 22L, ILS Y OR LOC Y RWY 22L ALT MA, AND ILS Z OR LOC Z RWY 22L ALT MA TO PROCEDURES REQUIRING CLIMB-IN-HOLD.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ESDIE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 384831.68N/1205108.90W

TYPE: 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	FEET	MRA	MAA
1	SACRAMENTO	I-MHR	LOC/DME		040.72	053.72	27.08	27.08		8100	12000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-MHR	LOC/DME	R-041	27	8100	12000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-MHR DME COORDINATES: 383230.14N/1211902.09W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Z OR LOC Z RWY 22L	1		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)	1		KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GADBE STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383650.71N/1211135.07W 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	FEET	MRA	MAA
1	SACRAMENTO	I-MHR	LOC/DME		040.72	053.72	7.28	7.28	44234	1800	4500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-MHR DME COORDINATES: 383230.14N/1211902.09W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Y OR LOC Y RWY 22L	1		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z OR LOC Z RWY 22L	1		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)1			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22L			KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."
3. ADDED ILS Y OR LOC Y RWY 22L TO FIX USE.
4. UPDATED DISTANCE FROM FACILITY FROM 44209 FT TO 44234 FT.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 NAME: PARNELL PRASSADA

APPROVED BY: DATE: 12/29/2022 OFFICE: AJV-A430 NAME: JOHNNIE BAKER
Digitally signed by

SIGNATURE: ERIC N SUSKI
Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HANGTOWN VOR/DME STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 384329.01N/1204457.35W 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	HANGTOWN	HNW	VOR/DME	L						17500

FIX RESTRICTIONS:

MCA V338 7000 NORTHEAST BOUND

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	SW	HNW	VOR/DME	228.00	048.00	R	1		5700	14000	14	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	310	AAO	384527.00N/1203315.00W	4538	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKEOFF	KPVF	PLACERVILLE	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 17E

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF		1	KPVF	PLACERVILLE	CA (US)
DP	FROGO			KSMF	SACRAMENTO	CA (US)
DP	RICHY			KTVL	SOUTH LAKE TAHOE	CA (US)
EN ROUTE	V332					(US)
EN ROUTE	V338					(US)
IAP	GPS RWY 1			KJAQ	JACKSON	CA (US)
IAP	ILS Z OR LOC Z RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22R			KMHR	SACRAMENTO	CA (US)
STAR	AMRVR (RNAV)			KMHR	SACRAMENTO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JEKAX

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383501.70N/1211444.45W

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 FAC NM	FEET	MRA	MAA
1	SACRAMENTO	I-MHR	LOC/DME		040.72	053.72	4.21	4.21		700	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-MHR DME COORDINATES: 383230.14N/1211902.09W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Y OR LOC Y RWY 22L	1		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z OR LOC Z RWY 22L	1		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)1			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22L			KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."
3. ADDED ILS Y OR LOC Y RWY 22L TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LDOOR

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 384225.71N/1210150.62W

TYPE: 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	SACRAMENTO	I-MHR	LOC/DME		040.72	053.72	16.73	16.73	4800	8100

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-MHR	LOC/DME	R-041	17	3000	8100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-MHR DME COORDINATES: 383230.14N/1211902.09W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Z OR LOC Z RWY 22L	1		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)	1		KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."
3. LOWERED FACILITY MAA AND ESV MAX ALTITUDE FROM 11000 TO 8100 AT SACRAMENTO MATHER LOC/DME (I-MHR).

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OHDEE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 385127.77N/1204558.85W

TYPE: 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	FAC FEET	MRA	MAA
1	SACRAMENTO	I-MHR	LOC/DME		040.72	053.72	32.07	32.07		8100	12000
2	SQUAW VALLEY	SWR	VOR/DME	VL	214.38	230.38	30.22	30.22		8100	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-MHR	LOC/DME	R-041	33	8100	12000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-MHR DME COORDINATES: 383230.14N/1211902.09W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Z OR LOC Z RWY 22L	1, 2		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)	1, 2		KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SACRAMENTO VORTAC STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 382637.46N/1213305.95W 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 FEET	MRA	MAA
1	SACRAMENTO	SAC	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 DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	S	SAC	VORTAC	196.01	016.01	R	1	1500 6000	4 5
2	SW		WP	228.99	048.99	R	4	3000 6000	5 6
3	S	SAC	VORTAC	196.01	016.01	R	1	3100 6000	12 13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	382000.00N/1213418.00W	355	4E
2	200	AAO	382000.00N/1213418.00W	355	4E
3	310	TOWER (06-001883)	381424.00N/1213007.00W	2051	3D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	TAKEOFF MINIMUMS	O88	RIO VISTA	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 17E (1980).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CHICO			KCIC	CHICO	CA (US)
DP	BUCHANAN			KCCR	CONCORD	CA (US)
DP	TAKEOFF MINIMUMS			KEDU	DAVIS	CA (US)
DP	LIVERMORE (OBSTACLE)			KLVK	LIVERMORE	CA (US)
DP	MERLOT			KAPC	NAPA	CA (US)
DP	OZIEE (RNAV)			KAPC	NAPA	CA (US)
DP	NIMITZ			KOAK	OAKLAND	CA (US)
DP	OAKLAND			KOAK	OAKLAND	CA (US)
DP	SALAD			KOAK	OAKLAND	CA (US)
DP	SILENT			KOAK	OAKLAND	CA (US)
DP	SHASTA			KRDD	REDDING	CA (US)
DP	TAKEOFF MINIMUMS		3	O88	RIO VISTA	CA (US)
DP	TAKEOFF MINIMUMS			KMHR	SACRAMENTO	CA (US)
DP	SAN FRANCISCO			KSFO	SAN FRANCISCO	CA (US)
DP	SUNOL			KSJC	SAN JOSE	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
DP	SOKOY			KVCB	VACAVILLE	CA (US)
DP	TAKEOFF MINIMUMS			KVCB	VACAVILLE	CA (US)
DP	TAKEOFF MINIMUMS			O41	WOODLAND	CA (US)
EN ROUTE	J126					(US)
EN ROUTE	J32					(US)
EN ROUTE	J65					(US)
EN ROUTE	V150					(US)
EN ROUTE	V23					(US)
EN ROUTE	V334					(US)
EN ROUTE	V392					(US)
EN ROUTE	V494					(US)
EN ROUTE	V6					(US)
IAP	LDA RWY 19R			KCCR	CONCORD	CA (US)
IAP	VOR RWY 19R			KCCR	CONCORD	CA (US)
IAP	RNAV (GPS) RWY 17			KEDU	DAVIS	CA (US)
IAP	ILS OR LOC RWY 15			KLHM	LINCOLN	CA (US)
IAP	ILS OR LOC RWY 14			KMYV	MARYSVILLE	CA (US)
IAP	ILS OR LOC RWY 16			KMCC	SACRAMENTO	CA (US)
IAP	VOR/DME RWY 34			KMCC	SACRAMENTO	CA (US)
IAP	ILS Y OR LOC Y RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	ILS Z OR LOC Z RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I - II)			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22L		2	KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22R		2	KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 4R			KMHR	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 2		1	KSAC	SACRAMENTO	CA (US)

QUALITY
20
CHECKED

IAP	VOR RWY 2	1	KSAC	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 17L	1	KSMF	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 17R		KSMF	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 35L		KSMF	SACRAMENTO	CA (US)
IAP	ILS RWY 17L (SA CAT II)	1	KSMF	SACRAMENTO	CA (US)
IAP	ILS RWY 17R (CAT II - III)		KSMF	SACRAMENTO	CA (US)
IAP	ILS RWY 17R (SA CAT I)		KSMF	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 20		KVCB	VACAVILLE	CA (US)
IAP	VOR-A		KVCB	VACAVILLE	CA (US)
IAP	ILS OR LOC OR RNAV (GPS) RWY 21L	1	KSUU	fairfield	CA (US)
IAP	ILS RWY 21L (CAT II)	1	KSUU	fairfield	CA (US)
IAP	ILS Z OR LOC Z RWY 21L	1	KSUU	fairfield	CA (US)
IAP	ILS Z RWY 21L (CAT II)	1	KSUU	fairfield	CA (US)
STAR	SQUAW VALLEY		KSUU	FAIRFIELD	CA (US)
STAR	POINT REYES		KNUQ	MOUNTAIN VIEW	CA (US)
STAR	POINT REYES		KPAO	PALO ALTO	CA (US)
STAR	CONCORD		KSMF	SACRAMENTO	CA (US)
STAR	TUDOR		KSMF	SACRAMENTO	CA (US)
STAR	POINT REYES		KSQL	SAN CARLOS	CA (US)
STAR	POINT REYES		KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES		KRHV	SAN JOSE	CA (US)
STAR	POINT REYES		KSJC	SAN JOSE	CA (US)
STAR	SIERRA		KRNO	RENO	NV (US)
STAR	TARVR		KRNO	RENO	NV (US)

REQUIRED CHARTING: SECTIONAL, VFR TERMINAL AREA, DP, STAR, MILITARY IAP, MILITARY STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 43

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."
3. ADDED ILS Y OR LOC Y RWY 22L TO FIX USE.
4. ADDED SECTIONAL AND VFR TERMINAL AREA TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SQUAW VALLEY VOR/DME

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 391049.16N/1201610.60W

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 FEET	MRA	MAA
1	SQUAW VALLEY	SWR	VOR/DME	VL						17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME DME	LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW	SWR	VOR/DME	218.11	038.11	L	1		11000 14000	9 10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	391154.00N/1201712.00W	9160	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	380

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST DUE TO AIRSPACE BOUNDARY.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 16E 1990.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FROGO			KSMF	SACRAMENTO	CA (US)
DP	RICHY			KTVL	SOUTH LAKE TAHOE	CA (US)
DP	TAKEOFF			KTVL	SOUTH LAKE TAHOE	CA (US)
DP	MOWGL (RNAV)			KTRK	TRUCKEE	CA (US)
DP	TAKEOFF			KTRK	TRUCKEE	CA (US)
DP	TRUCK			KTRK	TRUCKEE	CA (US)
DP	MINDEN (OBSTACLE) (RNAV)			KMEV	MINDEN	NV (US)
DP	WAGGE			KRNO	RENO	NV (US)
EN ROUTE	T331					(US)
EN ROUTE	V338					(US)
EN ROUTE	V494					(US)
EN ROUTE	V6					(US)
IAP	ILS Z OR LOC Z RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)			KMHR	SACRAMENTO	CA (US)
IAP	LDA RWY 18		1	KTVL	SOUTH LAKE TAHOE	CA (US)
IAP	RNAV (GPS) RWY 11			KTRK	TRUCKEE	CA (US)
IAP	ILS OR LOC RWY 35L			KRNO	RENO	NV (US)
IAP	RNAV (GPS) X RWY 35L			KRNO	RENO	NV (US)
IAP	RNAV (GPS) X RWY 35R			KRNO	RENO	NV (US)
IAP	RNAV (GPS) Y RWY 35L			KRNO	RENO	NV (US)
IAP	RNAV (GPS) Y RWY 35R			KRNO	RENO	NV (US)
IAP	ILS OR LOC RWY 32			KRTS	RENO	NV (US)
IAP	RNAV (GPS) RWY 32			KRTS	RENO	NV (US)
STAR	SQUAW VALLEY			KSUU	FAIRFIELD	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 28

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."
3. DELETED TARVER STAR FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

QUALITY
20
CHECKED

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

*Digitally signed by***ERIC N SUSKI**

Oct 28, 2022

SIGNATURE:

A green circular stamp with the text "QUALITY" at the top, "20" in the center, and "CHECKED" at the bottom.

RADIO FIX AND HOLDING DATA RECORD

NAME: YOSHE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383853.46N/1210801.18W

TYPE: 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	FEET	MRA	MAA
1	SACRAMENTO	I-MHR	LOC/DME		040.72	053.72	10.74	10.74		2900	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-MHR DME COORDINATES: 383230.14N/1211902.09W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Z OR LOC Z RWY 22L	1		KMHR	SACRAMENTO	CA (US)
IAP	ILS Z RWY 22L (SA CAT I, SA CAT II)	1		KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

1. RENAMED "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z RWY 22L."
2. RENAMED "ILS RWY 22L (SA CAT I, SA CAT II)" TO "ILS Z RWY 22L (SA CAT I, SA CAT II)."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 12/29/2022

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Oct 28, 2022

QUALITY
20
CHECKED