

RADIO FIX AND HOLDING DATA RECORD

NAME: BIFFY

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375305.35N/1201948.67W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
SHAAR (RNAV)
SHARR (RNAV)

FAC PAT

AIRPORT IDENT
KHWD
KOAK

CITY
HAYWARD
OAKLAND

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. CHANGED FIX TYPE FROM DME TO WP.
2. DELETED REMARK "MANTECA (FAC 1) USED TO ESTABLISH FIX COORDINATES".
3. FIX USE: REPLACED MADWIN STAR WITH SHARR STAR AT KHWD/KOAK.
4. REMOVED FAC 1 AND FAC 2.
5. REMOVED ECA ESV.

DEVELOPED BY:

DATE: 01/20/2017

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: CATTY

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 373857.24N/1214120.32W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
SHARR (RNAV)
SHARR (RNAV)

FAC PAT

AIRPORT IDENT
KHWD
KOAK

CITY
HAYWARD
OAKLAND

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/22/2017

INFORMATION ONLY

REASON FOR REVISION:

1. DELETED MADWIN STAR AND ADDED SHARR STAR AT KOAK/KHWD TO FIX USE.
2. CHANGED FIX TYPE FROM DME AND INT TO WP.
3. DELETED FACILITIES.

DEVELOPED BY:

DATE: 01/23/2017

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

QUALITY
17
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JOFAY

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375543.42N/1193045.53W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
SHARR (RNAV)
SHARR (RNAV)

FAC PAT

AIRPORT IDENT
KHWD
KOAK

CITY
HAYWARD
OAKLAND

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 06/22/2017

INFORMATION ONLY

REASON FOR REVISION:

1. FIX USE: DELETED MADWIN STAR AND ADDED SHAR (RNAV) STAR AT KOAK/KHWD; REMOVED J58, J80.
2. DELETED ECA AND MVA FROM FACILITIES.
3. REMOVED DME FROM FIX TYPE.
4. REMOVED MVA ESV.
5. REMOVED EN ROUTE HIGH CHARTING.

DEVELOPED BY:

DATE: 01/23/2017

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

QUALITY
17
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MAMIE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375025.13N/1210359.61W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
SHARR (RNAV)
SHARR (RNAV)

FAC PAT

AIRPORT IDENT
KHWD
KOAK

CITY
HAYWARD
OAKLAND

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/22/2017

INFORMATION ONLY

REASON FOR REVISION:

REMOVED INT AND DME FROM FIX TYPE AND ADDED WP.
REMOVED ALL FACILITIES.
REMOVED ALL REMARKS.
REMOVED PAT 1 HOLDING AND ALL REFERENCES TO IT.
FIX USE: REPLACED MADWIN STAR AT KOAK AND KHWD WITH SHARR STAR.

DEVELOPED BY:

DATE: 02/16/2017

OFFICE: AJV-5422

NAME: DAVID DOWLING

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

QUALITY
17
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MATEE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375422.14N/1195646.44W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
SHARR (RNAV)
SHARR (RNAV)

FAC PAT

AIRPORT IDENT
KHWD
KOAK

CITY
HAYWARD
OAKLAND

STATE
CA (US)
CA (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. CHANGED FIX TYPE TO WP.
2. REPLACED MADWIN STAR WITH SHARR (RNAV) STAR AT KOAK/KHWD IN FIX USE.
3. DELETED FAC1.

DEVELOPED BY:

DATE: 01/23/2017

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON.
OTHER:

INFORMATION ONLY

QUALITY
17
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SHARR

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 374748.64N/1211631.06W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
STAR
STAR

USE TITLE
RNAV (GPS) RWY 30
SHARR (RNAV)
SHARR (RNAV)

FAC PAT

AIRPORT IDENT
KC83
KHWD
KOAK

CITY
BYRON
HAYWARD
OAKLAND

STATE
CA (US)
CA (US)
CA (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: 6

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. REPLACED MADWIN STAR AT KOAK/KHWD WITH SHARR (RNAV) STAR IN FIX USE.
2. DELETED ECA AND MOD FROM FACILITIES.
3. REMOVED V195 FROM FIX USE.
4. REMOVED EN ROUTE LOW CHARTING.
5. REMOVED INT AND DME FROM FIX TYPE.
6. REMOVED FACILITIES COORDINATES REMARK.

DEVELOPED BY:

DATE: 01/23/2017

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

QUALITY
17
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WRAPS **STATE:** CA **COUNTRY:** US **ICAO REGION CODE:** K2

LATITUDE/LONGITUDE: 375128.60N/1204701.48W **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	LINDEN	LIN	VOR/DME	H	124.12	141.12	16.66	16.66	3000	17500
2	MODESTO	MOD	VOR/DME	H	013.90	030.90		16.11	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	NW	LIN	VOR/DME	124.12	124.12	R	1-1 1/2		3000	17500	5	17
2	E	WP	WP	071.86	251.86	R		11	20000	40000	21	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	375339.00N/1204336.00W	1001	4E
1	310	AAO	375442.20N/1204023.50W	1765	6C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR A	KO27	OAKDALE	CA (US)

REMARKS:

LINDEN (FAC 1) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 PAT 2 11 NM LEG LENGTH, 280 KIAS, AND MIN HOLDING ALTITUDE 20000 REQUESTED BY ATC.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF MINIMUMS	1, 2		KO27	OAKDALE	CA (US)
EN ROUTE	V23	1, 2				CA (US)
IAP	ILS OR LOC/DME RWY 28R	1, 2		KMOD	MODESTO	CA (US)
IAP	VOR A	1, 2	1	KO27	OAKDALE	CA (US)
IAP	RNAV (GPS) RWY 29R			KSCK	STOCKTON	CA (US)
STAR	SHARR (RNAV)		2	KHWD	HAYWARD	CA (US)
STAR	SHARR (RNAV)		2	KOAK	OAKLAND	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

REMOVED ECA VOR/DME FROM FIX MAKEUP AND UPDATED FIX USE
 REMOVED KO27 RNAV (GPS) RWY 10, MADWIN AND WRAPS STAR, V244 AND ADDED SHARR STAR TO FIX USE
 REMOVED ECA FROM FACILITY COORDINATES REMARK
 REMOVED WP PAT 2 WITH NW HOLDING; ADDED NEW WP PAT 2 WITH E HOLDING
 ADDED PAT 2 HOLD REMARK

DEVELOPED BY: **DATE:** 01/18/2017 **OFFICE:** AJV-5412 **NAME:** ROSE BOONE

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: WST
 ARTCC: ZOA
 ATC FACILITY: NORCAL APP CON
 OTHER:

INFORMATION ONLY

QUALITY
17
CHECKED