

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 390000.00N/1234500.00W **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	MENDOCINO	ENI	VORTAC	VH	245.99	261.99	22.47	22.47	5000	45000
2	POINT REYES	PYE	VOR/DME	VH	306.30	323.30	69.04	69.04	5000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PYE	VOR/DME	R-306	70	5000	45000

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	TEMPLATES MIN	TEMPLATES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W		WP	252.56	072.56	R		5	6000	6000	6	6
2	NW		WP	300.89	120.89	R		10	13000	28000	15	22

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TREE	385936.59N/1233757.00W	2265	4E
1	310	TREE	385618.00N/1233233.00W	2593	4E
2	230	AAO	385712.00N/1233433.00W	2500	4B

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	100
1	310	130
2	230	130

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 29	KLLR	LITTLE RIVER	CA (US)

REMARKS:

MENDOCINO (FAC 1) AND POINT REYES (FAC 2) USED TO ESTABLISH FIX COORDINATES.
 PRECIPITOUS TERRAIN EVALUATION COMPLETE
 FIX PREDICATED ON L/L AT ZOA REQUEST. THIS REMARK CARRIED OVER FROM THE ORIGINAL.
 250 TREE USED FOR PAT 1 PER WST FPT.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LITTLE RIVER (RNAV)			KLLR	LITTLE RIVER	CA (US)
DP	GNNRR (RNAV)			KSFO	SAN FRANCISCO	CA (US)
EN ROUTE	ZOA OCEANIC FIX	1, 2				CA (US)
IAP	RNAV (GPS) RWY 29		1	KLLR	LITTLE RIVER	CA (US)
STAR	BDEGA (RNAV)		2	KSFO	SAN FRANCISCO	CA (US)
STAR	STLER (RNAV)		2	KSFO	SAN FRANCISCO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 03/21/2024

REASON FOR REVISION:

1. ENI VORTAC CLASS CHANGED FROM H TO VH.
2. PYE VORTAC CLASS CHANGED FROM H TO VH.
3. HP2 OBSTACLE SPEED CHANGED FROM 265 TO 230 KT.
4. HP2 MIN SIZE CHANGED FROM P14 TO P15.
5. HP2 OBSTACLE CHANGED FROM 2326 MSL AAO TO 2500 MSL AAO.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** CHARLES HIRST

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 381328.52N/1224603.02W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW		WP	332.97	152.97	R	10	11000	23000	15	20
2	SE		WP	136.00	316.00	L	4	3500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	383342.00N/1225848.00W	1943	4B
2	200	AAO	380748.00N/1224339.00W	1680	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	110

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	RNAV (RNP) M RWY 14		2	KSTS	SANTA ROSA	CA (US)
STAR	BDEGA (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)
STAR	STLER (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR, SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 03/21/2024

REASON FOR REVISION:

HP1 OBSTACLE CHANGED FROM 1949 MSL AAO TO 1943 MSL AAO.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** CHARLES HIRST

APPROVED BY: **DATE:** 03/21/2024 **OFFICE:** AJV-A431 **NAME:** ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: JONNE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383722.31N/1225303.96W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
BDEGA (RNAV)
STLER (RNAV)

FAC

PAT

AIRPORT IDENT
KSFO
KSFO

CITY

SAN FRANCISCO
SAN FRANCISCO

STATE

CA (US)
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

FIX RELOCATED 4.42NM NORTH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: LOZIT **STATE:** CA **COUNTRY:** US **ICAO REGION CODE:** K2
LATITUDE/LONGITUDE: 375357.57N/1224023.50W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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 MIN	ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NW		WP	333.06	153.06	R	10	9000	16000	15 16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	375527.00N/1223551.00W	2776	4B

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BDEGA (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)
STAR	STLER (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 03/21/2024

REASON FOR REVISION:

- HP1 MAX TEMPLATE CHANGE FROM P17 TO P16.
- HP1 OBSTACLE CHANGED FROM 2760 MSL AAO TO 2776 MSL AAO.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** CHARLES HIRST

APPROVED BY: **DATE:** 03/21/2024 **OFFICE:** AJV-A431 **NAME:** ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: MLBEC

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 385229.18N/1225732.36W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW		WP	332.93	152.93	R	10	11000	28000	15	22

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	390948.00N/1230303.00W	4138	4B

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	320

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BDEGA (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)
STAR	STLER (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. HP1 OBSTACLE CHANGED FROM 3800 MSL AAO TO 4138 MSL AAO.
2. CHANGED CHARTING FROM CONTROLLER TO CONTROLLER HIGH.
3. HP1 MAX TEMPLATE SIZE CHANGED FROM P17 TO P22.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: MSCAT

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383725.53N/1223920.22W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
BDEGA (RNAV)
STLER (RNAV)

FAC

PAT

AIRPORT IDENT
KSFO
KSFO

CITY
SAN FRANCISCO
SAN FRANCISCO

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

FIX RELOCATED 3.5NM NORTH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 374413.10N/1222716.02W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

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

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	STLER (RNAV)			KSFO	SAN FRANCISCO	CA (US)
STAR	WWAVS (RNAV)			KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 12/10/2015

REASON FOR REVISION:
CHANGED FIX USE FROM SERFR TO WWAVS STAR.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 07/15/2015	OFFICE: AJV-354	NAME: ROY CURRIE
APPROVED BY:	DATE: 09/28/2015	OFFICE: AJV-354	NAME: JILL OLSON

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: PYLLE

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383231.77N/1222625.93W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FIX NAME RETAINED PER ATC FOR OPERATIONAL NECESSITY.

FIX USE:

USE TYPE

STAR
STAR

USE TITLE
BDEGA (RNAV)
STLER (RNAV)

FAC PAT

AIRPORT IDENT
KSFO
KSFO

CITY
SAN FRANCISCO
SAN FRANCISCO

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

FIX RELOCATED 5.35NM NORTH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: QUINN

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383054.84N/1230757.35W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR

USE TITLE
BDEGA (RNAV)
STLER (RNAV)

FAC

PAT

AIRPORT IDENT
KSFO
KSFO

CITY
SAN FRANCISCO
SAN FRANCISCO

STATE
CA (US)
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

FIX RELOCATED 2.98NM NORTHWEST.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 374204.91N/1224239.83W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

HOLDING: **HOLDING TYPE OF ACTION:**

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	STLER (RNAV)			KSFO	SAN FRANCISCO	CA (US)
STAR	FRYLON (RNAV)			KSJC	SAN JOSE	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/05/2015

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 10/01/2014	OFFICE: AJV-354	NAME: PHILLIP BRANDENBURG
APPROVED BY:	DATE: 03/05/2015	OFFICE: AJV-354	NAME: JILL OLSON

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: WESLA

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 373951.74N/1222849.05W

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	SAN FRANCISCO	SFO	VOR/DME	L	280.98	297.98	5.74	5.74	34877	1800	17500
2	SAUSALITO	SAU	VOR/DME	L	152.98	169.98		11.62		1800	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SAN FRANCISCO (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOLEN	1, 2		KSFO	SAN FRANCISCO	CA (US)
DP	WESLA (RNAV)			KSFO	SAN FRANCISCO	CA (US)
STAR	STLER (RNAV)			KSFO	SAN FRANCISCO	CA (US)
STAR	WWAVS (RNAV)			KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: DP, STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

UPDATE FAC 2 FROM VORTAC TO VOR/DME.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/13/2016

OFFICE: AJV-5421

NAME: JACOB POWERS (DARREN HOOPER)

APPROVED BY:

DATE: 06/23/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

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