

RADIO FIX AND HOLDING DATA RECORD

NAME: MAKRS **STATE:** CA **COUNTRY:** US **ICAO REGION CODE:** K2
LATITUDE/LONGITUDE: 354057.95N/1202038.99W **TYPE:** WP, 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	MRA	MAA
								NM FEET		
1	AVENAL	AVE	VOR/DME	VH	260.95	276.95	18.00	18.00	11000	45000

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

REMARKS:

FIX TO BE CHARTED AS STANDALONE ON SERFR (RNAV) AND WWAVS (RNAV) STARS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	ATC COORDINATION FIX					(US)
STAR	SERFR (RNAV)			KSFO	SAN FRANCISCO	CA (US)
STAR	WWAVS (RNAV)			KSFO	SAN FRANCISCO	CA (US)
STAR	SILCN (RNAV)			KSJG	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 03/21/2024

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: FAC 1 CLASS CHANGED FROM H TO VH.
2. REQUIRED CHARTING: CHANGED CHARTING TYPE FROM "CONTROLLER" TO "CONTROLLER HIGH AND CONTROLLER LOW."

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** PARNELL PRASSADA
APPROVED BY: **DATE:** 03/21/2024 **OFFICE:** AJV-A431 **NAME:** ERIC N SUSKI

SIGNATURE: *Digitally signed by*
ERIC N SUSKI
Nov 03, 2023



RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 362944.16N/1214157.84W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

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	SE		WP	133.71	313.71	L	10	13000	20000	15	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	361839.00N/1213406.00W	5256	4B

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	380

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQ

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	SERFR (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)
STAR	WWAVS (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

HOLDING: UPDATED HOLDING OBSTACLE AND ASSOCIATED INFORMATION. OBSTACLE MSL ELEVATION CHANGED FROM 5246 FT TO 5256 FT.

INITIATED BY: DATE: ORGANIZATION: NAME:

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

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

SIGNATURE: *Digitally signed by*
ERIC N SUSKI
Nov 03, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: PLLAR

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 373015.79N/1224303.60W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
STAR

USE TITLE
WWAVS (RNAV)

FAC

PAT

AIRPORT IDENT
KSFO

CITY
SAN FRANCISCO

STATE
CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/21/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

Digitally signed by
ERIC N SUSKI
Nov 03, 2023



RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 360405.90N/1212152.79W **TYPE:** WP

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

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	SE		WP	133.71	313.71	L	10	13000	15000	15	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	360845.00N/1212515.00W	6043	4B

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	380

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQ

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	SERFR (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)
STAR	WWAVS (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:

HOLDING: UPDATED HOLDING OBSTACLE AND ASSOCIATED INFORMATION. OBSTACLE MSL ELEVATION CHANGED FROM 6044 FT TO 6043 FT.

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

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

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

SIGNATURE: *Digitally signed by*
ERIC N SUSKI
Nov 03, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: STOKD

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 352900.57N/1204905.68W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FIX TO BE CHARTED AS STANDALONE ON SERFR (RNAV) AND WWAVS (RNAV) STARS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DARRK (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	KYLOW (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	SUMMR (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	TRTON (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	CTRUS (RNAV)			KSMO	SANTA MONICA	CA (US)
STAR	SERFR (RNAV)			KSFO	SAN FRANCISCO	CA (US)
STAR	WWAVS (RNAV)			KSFO	SAN FRANCISCO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 07/11/2024

REASON FOR REVISION:

REQUIRED CHARTING: CHANGED CHARTING TYPE FROM "CONTROLLER" TO "CONTROLLER HIGH."

01/10/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/21/24.

1. FIX USE: ADDED KYLOW (RNAV) SID AT KLAX.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Jan 11, 2024



RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 373006.69N/1222527.11W **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	WWAVS (RNAV)			KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 03/21/2024

REASON FOR REVISION:
LATITUDE/LONGITUDE: CHANGED FROM 373012.49N/1222529.11W TO 373006.69N/1222527.11W; FIX MOVED 0.1 NM SOUTH.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A431	NAME: PARNELL PRASSADA

APPROVED BY:	DATE: 03/21/2024	OFFICE: AJV-A431	NAME: ERIC N SUSKI
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SIGNATURE:	<i>Digitally signed by</i> ERIC N SUSKI Nov 03, 2023
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RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 370710.15N/1221733.87W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

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	SE		WP	125.87	305.87	L	10	11000	15000	15	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	370600.00N/1220824.00W	2851	4B

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	150

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQ

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	WWAVS (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

HOLDING: UPDATED HOLDING OBSTACLE AND ASSOCIATED INFORMATION. OBSTACLE MSL ELEVATION CHANGED FROM 2845 FT TO 2851 FT.

INITIATED BY: DATE: ORGANIZATION: NAME:

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

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

SIGNATURE:

Digitally signed by
ERIC N SUSKI
Nov 03, 2023



RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 364429.51N/1215339.24W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

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	SE		WP	133.49	313.49	L	10	13000	19000	15	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	362312.00N/1214718.00W	4603	4B

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	300

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQ

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	SERFR (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)
STAR	WWAVS (RNAV)		1	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

HOLDING: UPDATED HOLDING OBSTACLE AND ASSOCIATED INFORMATION. OBSTACLE MSL ELEVATION CHANGED FROM 4617 FT TO 4603 FT.

INITIATED BY: DATE: ORGANIZATION: NAME:

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

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

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ERIC N SUSKI
Nov 03, 2023

