

RADIO FIX AND HOLDING DATA RECORD

NAME: AXMUL

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 373417.45N/1221525.91W

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	FEET	MRA	MAA
1	SAN FRANCISCO	I-GWQ	LOC/DME		103.82	117.82	7.43	7.45	45251	1800	4500
2	OAKLAND	OAK	VOR/DME	VH	172.83	189.83		9.39		1800	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

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

I-GWQ DME FACILITY COORDINATES 373748.20N/1222340.61W

THE RNAV VISUAL RWY 1R AT KSFO IS A SPECIAL PROCEDURE USED BY VIRGIN AMERICA.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R	1, 2		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT II/III)	1, 2		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (SA CAT I)	1, 2		KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) Z RWY 28R			KSFO	SAN FRANCISCO	CA (US)
OTHER	RNAV VISUAL RWY 1R			KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 10/31/2024

REASON FOR REVISION:

FIX MAKEUP OAK VOR/DME FAC CLASS CHANGED FROM H TO VH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 10/31/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Aug 15, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: CEPIN

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 373209.43N/1221022.35W

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	FEET	MRA	MAA
1	SAN FRANCISCO	I-GWQ	LOC/DME		103.82	117.82	11.99	12.00		3000	4500
2	OAKLAND	OAK	VOR/DME	VH	151.00	168.00		11.64		3000	12000
3	SAN FRANCISCO	SFO	VOR/DME	VL	100.51	117.51		10.82		3000	12000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SAN FRANCISCO (FAC 1) USED TO ESTABLISH FIX COORDINATES.
I-GWQ DME FACILITY COORDINATES 373748.20N/1222340.61W.
THE RNAV VISUAL RWY 1R AT KSFO IS A SPECIAL PROCEDURE USED BY VIRGIN AMERICA.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R	1, 2, 3		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT II/III)	1, 2, 3		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (SA CAT I)	1, 2, 3		KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) Z RWY 28R			KSFO	SAN FRANCISCO	CA (US)
OTHER	RNAV VISUAL RWY 1R			KSFO	SAN FRANCISCO	CA (US)
STAR	MODESTO	1, 2, 3		KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 10/31/2024

REASON FOR REVISION:

1. FIX MAKEUP OAK VOR/DME FAC CLASS CHANGED FROM H TO VH.
2. FIX MAKEUP SFO VOR/DME FAC CLASS CHANGED FROM L TO VL.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 10/31/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Aug 15, 2024

QUALITY
29
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SIDBY

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 372702.56N/1220841.09W

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	DUMBARTON VISUAL RWY 14L			KNUQ	MOUNTAIN VIEW	CA (US)
IAP	GLS RWY 28L			KSFO	SAN FRANCISCO	CA (US)
IAP	GLS RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28L			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28L (SA CAT II)			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT II & III)			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (SA CAT I)			KSFO	SAN FRANCISCO	CA (US)
IAP	QUIET BRIDGE VISUAL RWY 28L/R			KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) RWY 28L			KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) Z RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (RNP) Y RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	TIPP TOE VISUAL RWY 28L/R			KSFO	SAN FRANCISCO	CA (US)
STAR	PIRAT (RNAV)			KOAK	OAKLAND	CA (US)
STAR	PIRAT (RNAV)			KSFO	SAN FRANCISCO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 10/31/2024

REASON FOR REVISION:

1. FIX USE ADD KSFO GLS RWY 28L.
2. FIX USE ADD KSFO GLS RWY 28R.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 10/31/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

Digitally signed by

ERIC N SUSKI

Aug 15, 2024

QUALITY
29
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VIKYU

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 374248.64N/1223546.34W

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	FEET	MRA	MAA
1	SAN FRANCISCO	SFO	VOR/DME	VL	281.08	298.08	12.00	12.00		3000	6000
2	SAUSALITO	SAU	VOR/DME	VL	185.37	202.37		9.19		3000	6000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

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	E	SFO	VOR/DME	281.08	281.08	R	1		3000	6000	4	5
2	E		WP	103.67	283.67	R		4	3000	6000	5	6
3	E		WP	103.67	283.67	R		4	3200	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (06-002525)	374114.38N/1222605.32W	1569	1A
2	200	TOWER (06-000120)	374519.32N/1222709.83W	1811	1D
3	200	TOWER (06-000120)	374519.32N/1222709.83W	1811	1D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

SAN FRANCISCO (FAC 1) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	GLS RWY 28R		3	KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R	1, 2	1	KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT II/III)	1, 2	1	KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (SA CAT I)	1, 2	1	KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) Z RWY 28R		2	KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (RNP) Y RWY 28R		2	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 10/31/2024

REASON FOR REVISION:

1. PROCEDURES REQUIRING CLIMB-IN-HOLD REMOVED KSFO RNAV (GPS) Z RWY 28R PATTERN 3 CIH.
2. FIX USE KSFO RNAV (GPS) Z RWY 28R HOLDING CHANGED FROM PATTERN 3 TO PATTERN 2.
3. CONTROLLING OBSTRUCTIONS REMOVED CIH 310KT OBSTRUCTION FOR PATTERN 3.
4. FIX MAKEUP SFO VOR/DME FAC CLASS CHANGED FROM V TO VL.
5. FIX MAKEUP SAU VOR/DME FAC CLASS CHANGED FROM V TO VL.
6. HOLDING PATTERN 3 MAX TEMPLATE CHANGED FROM 13 TO 6.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: CHARLES HIRST

APPROVED BY:

DATE: 10/31/2024

OFFICE: AJV-A431

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