

RADIO FIX AND HOLDING DATA RECORD

NAME: DUMBA

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 373012.66N/1220546.13W

TYPE: WP, 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	MRA	MAA
1	SAN FRANCISCO	I-GWQ	LOC/DME		103.82	117.82	16.13	16.15	3000	4500
2	WOODSIDE	OSI	VOR/DME	L	036.00	053.00		11.07	3000	17500
3	OAKLAND	OAK	VOR/DME	H	138.46	155.46		14.65	3000	17500
4	SAN FRANCISCO	SFO	VOR/DME	L	100.59	117.59	14.96	14.96	3000	17500

FIX RESTRICTIONS:

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	E		WP	103.98	283.98	L		4	3000	10000	5	10
2	W	SFO	VOR/DME	100.59	100.59	L	1		3000	6000	4	5
3	W		WP	284.00	104.00	L		4	3000	10000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	373418.00N/1220618.00W	450	4E
2	200	TOWER (06-000075)	373249.58N/1221401.89W	560	1D
3	200	TOWER (06-000075)	373249.58N/1221401.89W	560	1D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST
PAT 3 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

SAN FRANCISCO (FAC 1) USED TO ESTABLISH FIX COORDINATES.
NOTE: WHEN OSI VOR/DME OTS DME IS REQUIRED FOR HOLDING. OAK VOR/DME AND SFO VOR/DME DO NOT MEET 45 DEGREE DIVERGENCE.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
GWQ DME LOCATION: 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 19R		3	KSFO	SAN FRANCISCO	CA (US)
IAP	GLS RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 19L	2, 3, 4	2	KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R	1, 2, 3, 4		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT II/III)	1, 2, 3, 4		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (SA CAT I)	1, 2, 3, 4		KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) RWY 10L		1	KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) RWY 19L		1	KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) Y RWY 10R		1	KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) Z RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (RNP) Z RWY 10R		1	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: 15

DATE OF REVISION: 12/02/2021

REASON FOR REVISION:

QUALITY
6
CHECKED

- PAT 2, RAD/CRS/BRG AND CRS INBOUND CORRECTED FROM 281.00/101.00 TO 100.59/100.59 - HOLDING IS AWAY FROM THE NAVAID AND ON THE 100.59 RADIAL.
- PAT 2, MAX ALTITUDE AND TEMPLATE CHANGED FROM 10000/9 TO 6000/5 - HIGHER ALTITUDES AND LARGER TEMPLATES CROSS INTO THE NO-COURSE SIGNAL ZONE.
- ADDED PAT 3 - USED BY NEW PROCEDURE.
- FIX USE, ADDED KSFO GLS RWY 19R AND GLS RWY 28R - NEW PROCEDURES.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A421 **NAME:** RUSSELL ROSLEWSKI

APPROVED BY: **DATE:** 12/02/2021 **OFFICE:** AJV-A420 **NAME:** MARLON ROBINSON

SIGNATURE: *Digitally signed by*
JASON KRETSCHMER
Sep 28, 2021

QUALITY
6
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ESUME

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 374449.92N/1221725.49W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX USE:
USE TYPE

IAP
IAP

USE TITLE

GLS RWY 19R
RNAV (GPS) RWY 19R

FAC

PAT

AIRPORT IDENT

KSFO
KSFO

CITY

SAN FRANCISCO
SAN FRANCISCO

STATE

CA (US)
CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 12/02/2021

REASON FOR REVISION:

FIX USE, ADDED KSFO GLS RWY 19R - NEW PROCEDURE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: RUSSELL ROSLEWSKI

APPROVED BY:

DATE: 12/02/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

Digitally signed by
JASON KRETSCHMER
Sep 28, 2021

QUALITY
6
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HITOD

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 375150.99N/1221244.63W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX USE:
USE TYPE

IAP
IAP

USE TITLE

GLS RWY 19R
RNAV (GPS) RWY 19R

FAC

PAT

AIRPORT IDENT

KSFO
KSFO

CITY

SAN FRANCISCO
SAN FRANCISCO

STATE

CA (US)
CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 12/02/2021

REASON FOR REVISION:

FIX USE, ADDED KSFO GLS RWY 19R - NEW PROCEDURE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: RUSSELL ROSLEWSKI

APPROVED BY:

DATE: 12/02/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

Digitally signed by
JASON KRETSCHMER
Sep 28, 2021

QUALITY
6
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WIYXU

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 373417.48N/1221525.54W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
IAP

USE TITLE
GLS RWY 19R

FAC

PAT

AIRPORT IDENT
KSFO

CITY
SAN FRANCISCO

STATE
CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 12/02/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: RUSSELL ROSLEWSKI

APPROVED BY:

DATE: 12/02/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

Digitally signed by
JASON KRETSCHMER
Sep 28, 2021

QUALITY
6
CHECKED