Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 01/25/2012	Task #: 2011090732579501002	Request #: 20110907325795
Procedure: ILS PRM RWY 28L (SIMULTANEOUS CLOSE PARALLEL) AMDT 2		Airport ID: KSFO	Airport: SAN FRANCISCO INTL		Reimbursable #:
City: SAN FRANCISCO	ST: CA	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID: SFO	Fac. Type: ILS Proc - A	Specialist: AMANDA ROBBINS			

Procedure Review

P1

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/14/2012	06/25/2012	ADOLFO URRUTIA	
QA:	06/25/2012	06/28/2012	STEVEN SZUKALA	
Liaison:	06/28/2012		Sparlin	

Procedure Comments: Non-Enroute

Remark Type: INFORMATION HARD DATE Pkg 1 of 2

SAN FRANCISCO, CA SAN FRANCISCO INTL (KSFO) ILS PRM RWY 28L (SIMULTANEOUS CLOSE PARALLEL) AMDT 2 ENROUTE-NO FC BY; 8.7.12 PUB: 9.20.12
ATTACHED FORMS: ESV(S): (I-SFO) ILS (LOC/DME/GS) (10); 8260-3, 8260-9, 8260-10.
8260-2(S): DIVEC INT, REV 1; DUYET INT, REV 2; FAITH INT, REV 11; HEMAN INT, REV 2; NEPIC INT; REV 1; OLYMM INT, REV 11; PONKE INT, REV 1; ROKME INT, REV 3; SAN JOSE (SJC) VDME, REV 11; WETOR INT, REV 2.

CONTACT: ADOLFO URRUTIA/LONNIE EVERHART, AJV-354 LEADS, 405.954.2079/4576

NEW

PDF EDITED

FIG

SAN FRANCISCO, CALIFORNIA

AL-375 (FAA)

ILS PRM RWY 28L (SIMULTANEOUS CLOSE PARALLEL)

SAN FRANCISCO INTL (SFO)

LOC/DME I-SFO	APP CRS	Rwy ldg	10608
109.55	281°	THRE	13
Chan 32 (Y)		Apt Elev	13

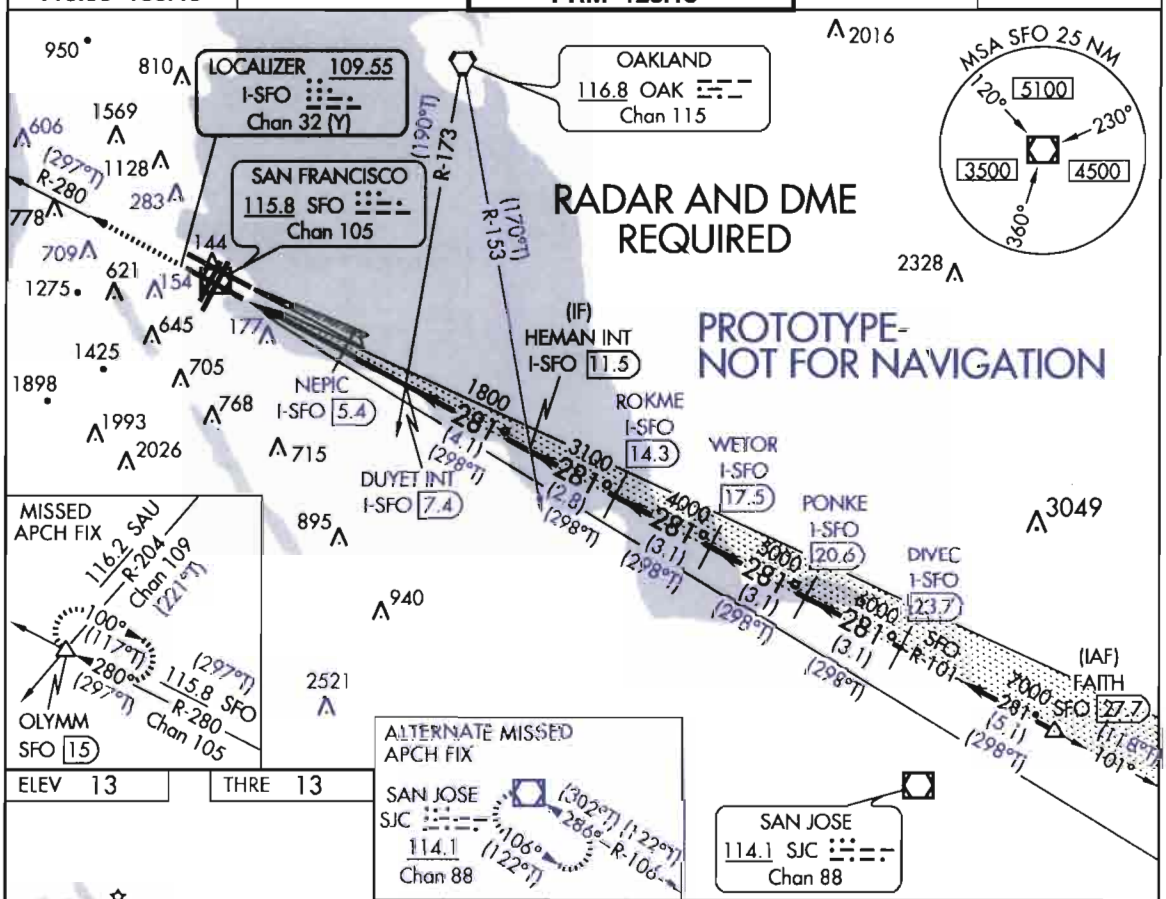
Runway 28L and 28R separated by 750 feet centerline to centerline.
Simultaneous close parallel approach authorized with LDA PRM Rwy 28R.
Procedure not authorized when glide slope not available.
Dual VHF comm required. See additional requirements on AAUP.
*Missed approach requires a minimum climb of 310 feet per NM to 2100.

NA

SSALR

MISSED APPROACH: Climb to 2100 then CLIMBING RIGHT TURN to 3000 on HEADING 285 AND SFO VOR/DME R-280 to OLYMM INT/SFO 15 DME and hold.

ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON	CLNC DEL
113.7 115.8 118.85 135.45	134.5 338.2	120.5 269.1 PRM 125.15	121.8	118.2



CATEGORY	A	B	C	D
S-ILS 28L*	213/24 200 (200-½)			
S-ILS 28L	797-2¼ 784 (800-2¼)			

SAN FRANCISCO, CALIFORNIA

37°37'N-122°22'W

SAN FRANCISCO INTL (SFO)

Amdt 2 FIG

(SIMULTANEOUS CLOSE PARALLEL)

ILS PRM RWY 28L

NEW

ATTENTION ALL USERS PAGE (AAUP)

Condensed Briefing Points:

- Listen to the PRM monitor (frequency 125.15) when communicating with NORCAL approach control (frequency 135.65), no later than LOC intercept.
- Expect to be switched to SFO Tower (120.5) at NEPIC.
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.

1. **ATIS.** When the ATIS broadcast advises that simultaneous ILS/PRM and LDA/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 28L approach. If later advised to expect an ILS 28L approach, the ILS/PRM 28L chart may be used after completing the following briefing items:

   (a) Minimums and missed approach procedures are unchanged.
   (b) Monitor frequency no longer required.
   (c) A different glideslope intercept altitude may be assigned when advised to expect the ILS 28L approach.

Simultaneous parallel approaches will only be offered/conducted when the weather is at least 1600 feet (ceiling) and 4 miles (visibility).

2. **Dual VHF Communication required.** To avoid blocked transmissions, each runway will have two frequencies, a primary and a PRM monitor frequency. The NORCAL approach controller will transmit on both frequencies. The PRM Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the approach controller's frequency (135.65), but will listen to both frequencies. Select the PRM monitor frequency audio only when in contact with NORCAL approach control (135.65). The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked. The PRM monitor frequency may be de-selected passing NEPIC.

3. **ALL "Breakouts"** are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.

   (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1000 feet required obstruction clearance.

   (b) Phraseology - "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE" (NTZ), the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:

      "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".

4. Descending on (not above) the ILS glideslope ensures complying with any charted crossing restrictions and assists traffic on the LDA PRM 28R approach to mitigate possible wake turbulence encounters without destabilizing the LDA approach and creating a go-around.

5. **LDA Traffic:** While conducting this ILS/PRM approach to Runway 28L, other aircraft may be conducting the offset LDA/PRM approach to Runway 28R. These aircraft will approach from the right-rear and will re-align with 28R after making visual contact with the ILS traffic.

Special pilot training required. Pilots who are unable to participate will be afforded appropriate arrival services as operational conditions permit and must notify the controlling ARTCC as soon as practical, but at least 100 miles from destination.

PROTOTYPE-NOT FOR NAVIGATION

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : DME	Frequency : M1119	Reference No.: 12052245	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890725-007	101	0	18	50	60

Requirement: WETOR DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda	Routing Symbol: AJV-354	Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-007	101	0	18	50	60	APPROVE

Requirement/Remarks: WETOR DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 05/07/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-007	101	0	18	50	60	APPROVE

Requirement/Remarks: WETOR DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-007	101	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : LOC	Frequency : M109.55	Reference No.: 12052244	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890728-010	101	0	18	50	60

Requirement: WETOR DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda	Routing Symbol: AJV-354	Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-010	101	0	18	50	60	APPROVE

Requirement/Remarks: WETOR DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 05/07/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-010	101	0	18	50	60	APPROVE

Requirement/Remarks: WETOR DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-010	101	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : DME	Frequency : M1119	Reference No.: 12052243	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890725-006	101	0	15	45	60

Requirement: ROKME DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda	Routing Symbol: AJV-354	Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-006	101	0	15	45	60	APPROVE

Requirement/Remarks: ROKME DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 05/07/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-006	101	0	15	45	60	APPROVE

Requirement/Remarks: ROKME DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-006	101	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : LOC	Frequency : M109.55	Reference No.: 12052242	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890728-009	101	0	15	45	60

Requirement: ROKME DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda	Routing Symbol: AJV-354	Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-009	101	0	15	45	60	APPROVE

Requirement/Remarks: ROKME DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 05/07/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-009	101	0	15	45	60	APPROVE

Requirement/Remarks: ROKME DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-009	101	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : LOC	Frequency : M109.55	Reference No.: 12052251	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890728-012	101	0	24	70	80

Requirement: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda	Routing Symbol: AJV-354	Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-012	101	0	24	70	80	APPROVE

Requirement/Remarks: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-012	101	0	24	70	80	APPROVE

Requirement/Remarks: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-012	101	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : DME	Frequency : M1119	Reference No.: 12052250	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890725-009	101	0	24	70	80

Requirement: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda | Routing Symbol: AJV-354 | Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-009	101	0	24	70	80	APPROVE

Requirement/Remarks: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS | Routing Symbol: | Date: 05/08/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-009	101	0	24	70	80	APPROVE

Requirement/Remarks: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS | Routing Symbol: | Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-009	101	0				

Requirement/Remarks:

Signature: | Routing Symbol: | Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : GS	Frequency : M332.45	Reference No.: 12052249	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890727-013	101	0	22	70	80

Requirement: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda	Routing Symbol: AJV-354	Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890727-013	101	0	22	70	80	APPROVE

Requirement/Remarks: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890727-013	101	0	22	70	80	APPROVE

Requirement/Remarks: DIVEC DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890727-013	101	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : GS	Frequency : M332.45	Reference No.: 12052248	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890727-012	101	0	19	60	70

Requirement: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda	Routing Symbol: AJV-354	Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890727-012	101	0	19	60	70	APPROVE

Requirement/Remarks: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 05/07/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890727-012	101	0	19	60	70	APPROVE

Requirement/Remarks: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890727-012	101	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : LOC	Frequency : M109.55	Reference No.: 12052246	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890728-011	101	0	21	60	70

Requirement: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda	Routing Symbol: AJV-354	Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-011	101	0	21	60	70	APPROVE

Requirement/Remarks: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 05/07/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-011	101	0	21	60	70	APPROVE

Requirement/Remarks: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890728-011	101	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAN FRANCISCO	City : SAN FRANCISCO	Ident : SFO	State : CA
Type/Class : DME	Frequency : M1119	Reference No.: 12052247	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 890725-008	101	0	21	60	70

Requirement: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.

Signature: Robbins Amanda | Routing Symbol: AJV-354 | Date: 05/01/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-008	101	0	21	60	70	APPROVE

Requirement/Remarks: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: HEPSEN JOHN | Routing Symbol: | Date: 05/07/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-008	101	0	21	60	70	APPROVE

Requirement/Remarks: PONKE DME FIX- KSFO R28L BOTH ILS IAPS- MULTIPLE FIX ON GLIDESLOPE.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS | Routing Symbol: | Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 890725-008	101	0				

Requirement/Remarks:

Signature: | Routing Symbol: | Date:

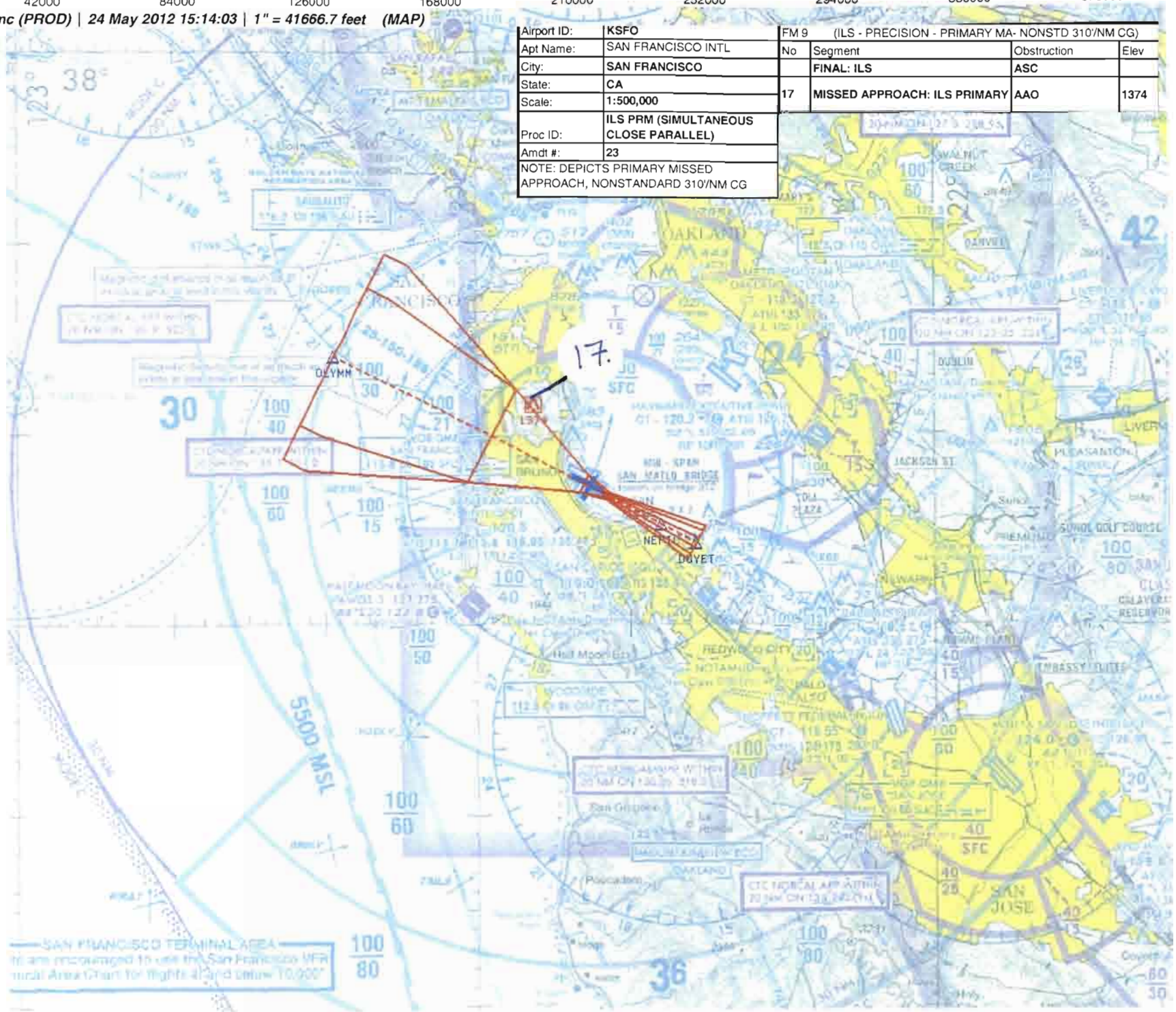
NM	7	14	21	28	35	42	49	56	63	70
FT	42000	84000	126000	168000	210000	252000	294000	336000	378000	420000

fpoajr | sfoprmc (PROD) | 24 May 2012 15:14:03 | 1" = 41666.7 feet (MAP)

Airport ID:	KSFO
Apt Name:	SAN FRANCISCO INTL
City:	SAN FRANCISCO
State:	CA
Scale:	1:500,000
Proc ID:	ILS PRM (SIMULTANEOUS CLOSE PARALLEL)
Amdt #:	23
NOTE: DEPICTS PRIMARY MISSED APPROACH, NONSTANDARD 310'/NM CG	

FM 9 (ILS - PRECISION - PRIMARY MA- NONSTD 310'/NM CG)

No	Segment	Obstruction	Elev
	FINAL: ILS	ASC	
17	MISSED APPROACH: ILS PRIMARY	AAO	1374



NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

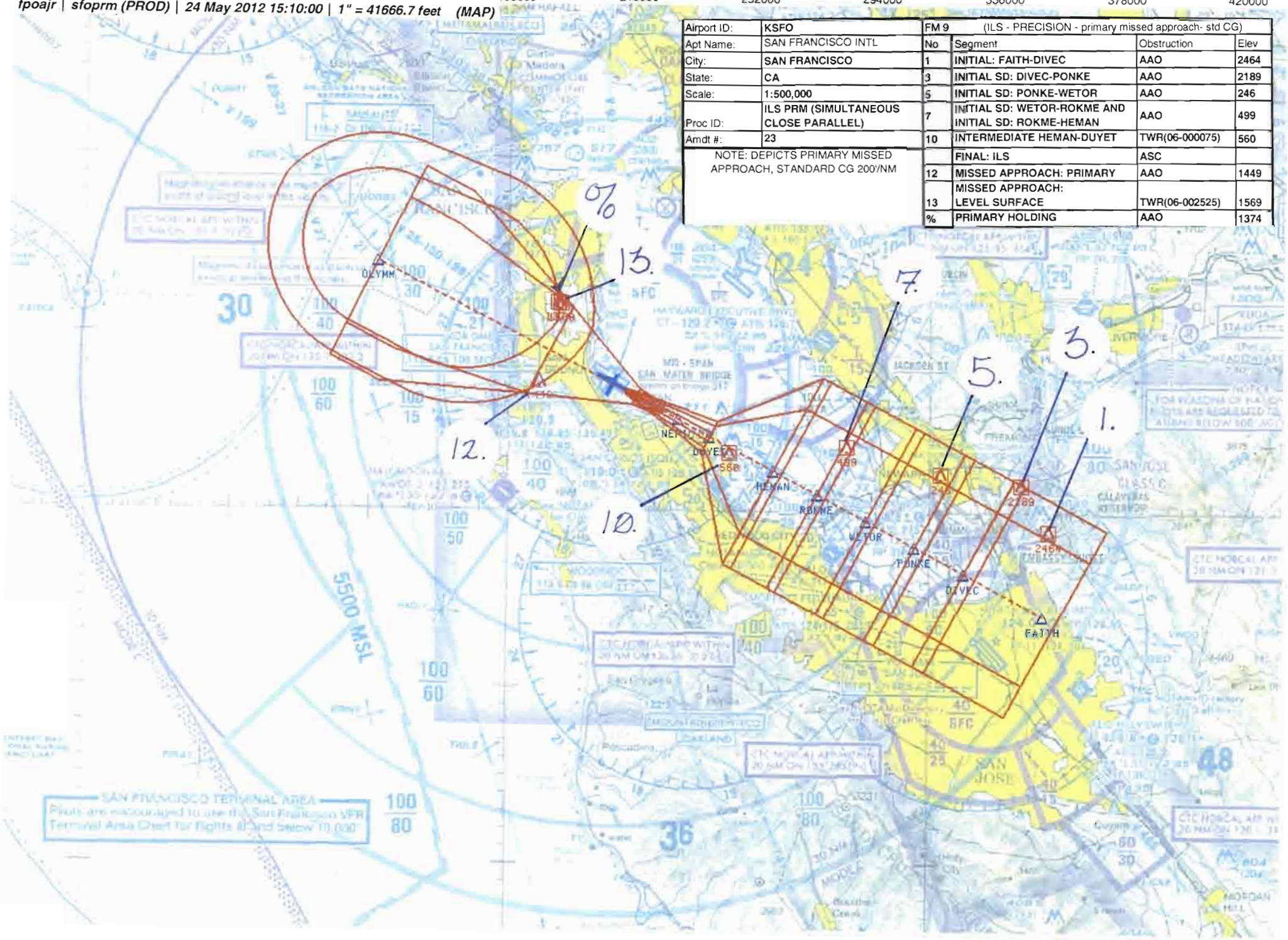
fpoajr | sfoprm (PROD) | 24 May 2012 15:10:00 | 1" = 41666.7 feet (MAP)

Airport ID:	KSFO
Apt Name:	SAN FRANCISCO INTL
City:	SAN FRANCISCO
State:	CA
Scale:	1:500,000
Proc ID:	ILS PRM (SIMULTANEOUS CLOSE PARALLEL)
Amdt #:	23

NOTE: DEPICTS PRIMARY MISSED APPROACH, STANDARD CG 200'/NM

FM 9 (ILS - PRECISION - primary missed approach- std CG)

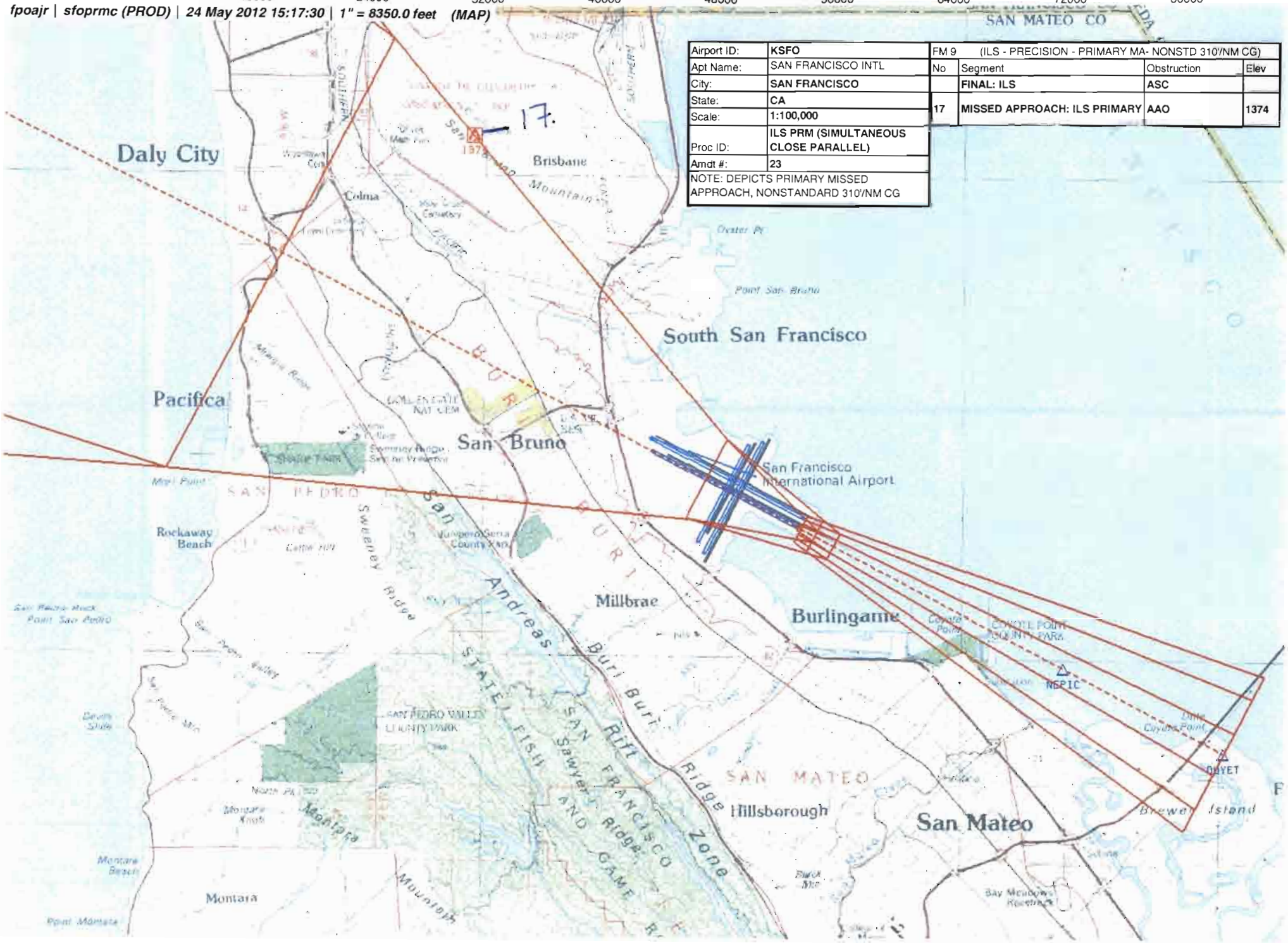
No	Segment	Obstruction	Elev
1	INITIAL: FAITH-DIVEC	AAO	2464
3	INITIAL SD: DIVEC-PONKE	AAO	2189
5	INITIAL SD: PONKE-WETOR	AAO	246
7	INITIAL SD: WETOR-ROKME AND INITIAL SD: ROKME-HEMAN	AAO	499
10	INTERMEDIATE HEMAN-DUYET	TWR(06-000075)	560
	FINAL: ILS	ASC	
12	MISSED APPROACH: PRIMARY	AAO	1449
13	MISSED APPROACH: LEVEL SURFACE	TWR(06-002525)	1569
%	PRIMARY HOLDING	AAO	1374



NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14

FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000

fpoajr | sfoprmc (PROD) | 24 May 2012 15:17:30 | 1" = 8350.0 feet (MAP)



Airport ID:	KSFO
Apt Name:	SAN FRANCISCO INTL
City:	SAN FRANCISCO
State:	CA
Scale:	1:100,000
Proc ID:	ILS PRM (SIMULTANEOUS CLOSE PARALLEL)
Amdt #:	23
NOTE: DEPICTS PRIMARY MISSED APPROACH, NONSTANDARD 310'/NM CG	

FM 9 (ILS - PRECISION - PRIMARY MA- NONSTD 310'/NM CG)

No	Segment	Obstruction	Elev
	FINAL: ILS	ASC	
17	MISSED APPROACH: ILS PRIMARY	AAO	1374

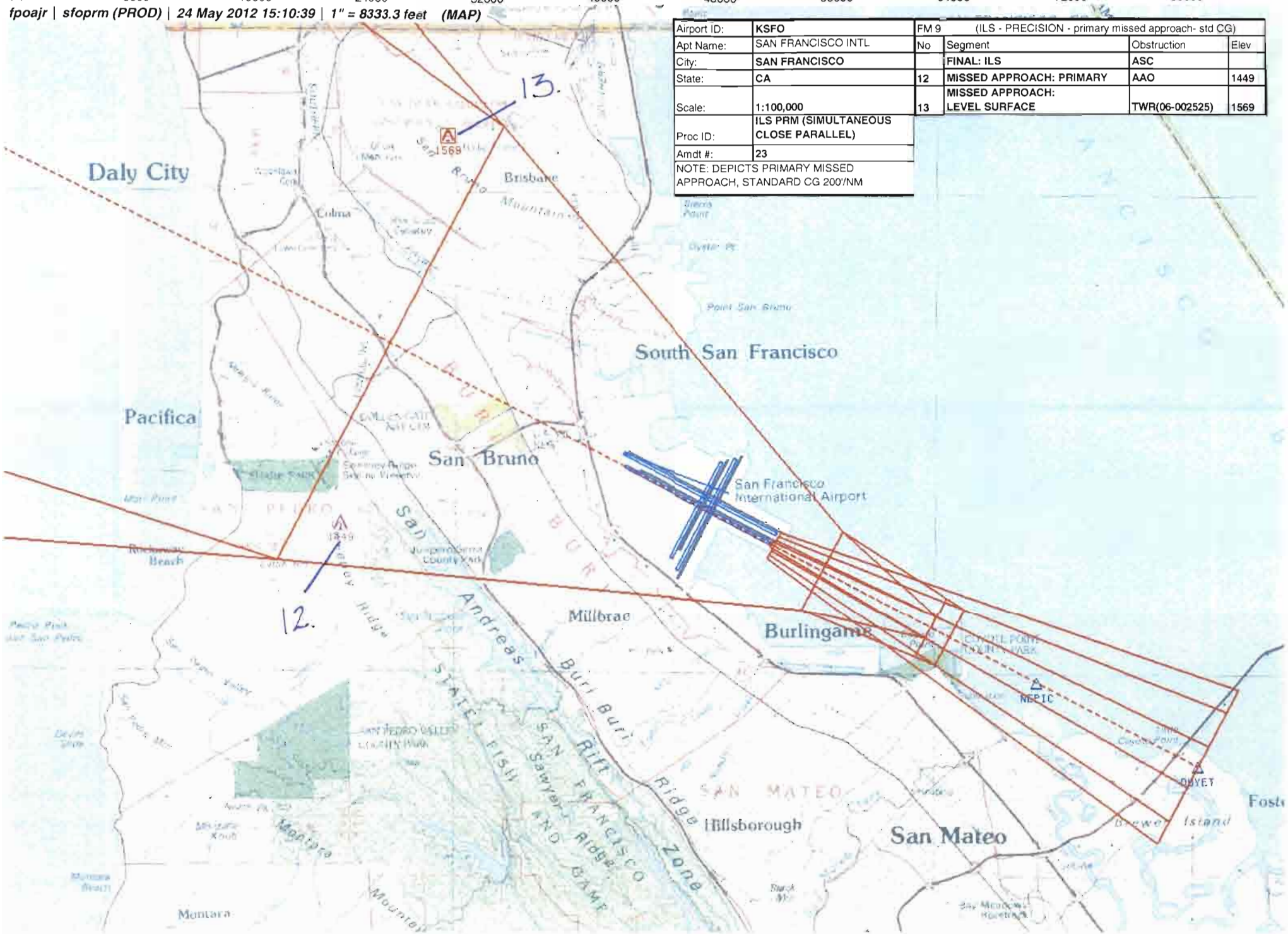
NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14

FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000

fpoajr | sfoprm (PROD) | 24 May 2012 15:10:39 | 1" = 8333.3 feet (MAP)

Airport ID:	KSFO
Apt Name:	SAN FRANCISCO INTL
City:	SAN FRANCISCO
State:	CA
Scale:	1:100,000
Proc ID:	ILS PRM (SIMULTANEOUS CLOSE PARALLEL)
Amdt #:	23
NOTE: DEPICTS PRIMARY MISSED APPROACH, STANDARD CG 200'/NM	

FM 9	(ILS - PRECISION - primary missed approach- std CG)		
No	Segment	Obstruction	Elev
	FINAL: ILS	ASC	
12	MISSED APPROACH: PRIMARY	AAO	1449
13	MISSED APPROACH: LEVEL SURFACE	TWR(06-002525)	1569



NM 7 14 21 28 35 42 49 56 63 70

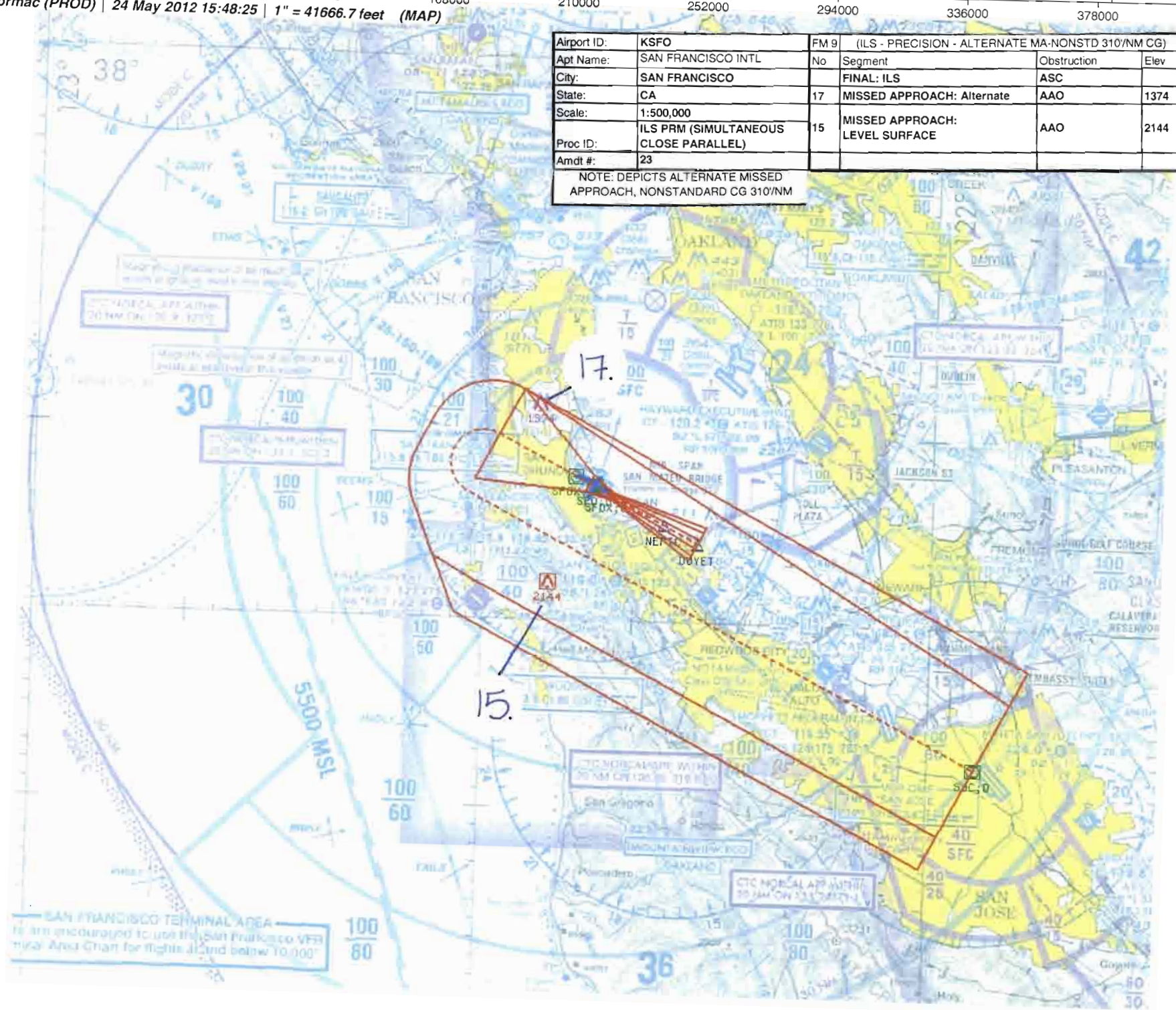
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fpoajr | sfoprmac (PROD) | 24 May 2012 15:48:25 | 1" = 41666.7 feet (MAP)

Airport ID:	KSFO
Apt Name:	SAN FRANCISCO INTL
City:	SAN FRANCISCO
State:	CA
Scale:	1:500,000
Proc ID:	ILS PRM (SIMULTANEOUS CLOSE PARALLEL)
Amdt #:	23

NOTE: DEPICTS ALTERNATE MISSED APPROACH, NONSTANDARD CG 310'/NM

FM 9	(ILS - PRECISION - ALTERNATE MA-NONSTD 310'/NM CG)		
No	Segment	Obstruction	Elev
	FINAL: ILS	ASC	
17	MISSED APPROACH: Alternate	AAO	1374
15	MISSED APPROACH: LEVEL SURFACE	AAO	2144



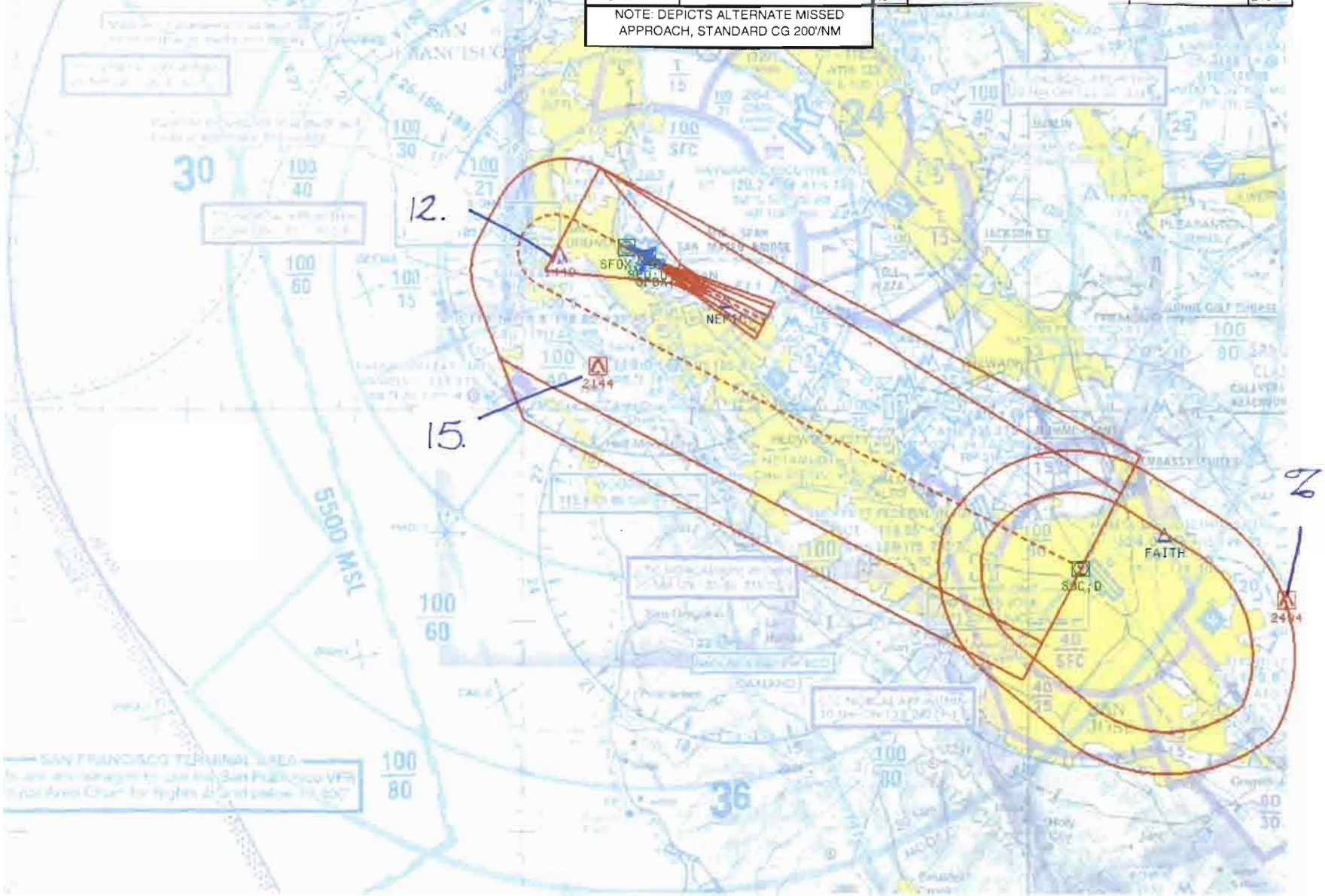
NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fpoajr | sfoprma (PROD) | 24 May 2012 15:12:23 | 1" = 41666.7 feet (MAP)

Airport ID:	KSFO	FM 9	(ILS - PRECISION - alternate missed approach- std CG)		
Apt Name:	SAN FRANCISCO INTL	No	Segment	Obstruction	Elev
City:	SAN FRANCISCO		FINAL: ILS	ASC	
State:	CA	12	MISSED APPROACH: Alternate	AAO	1449
Scale:	1:500,000	15	MISSED APPROACH: LEVEL SURFACE	AAO	2144
Proc ID:	ILS PRM (SIMULTANEOUS CLOSE PARALLEL)				
Amdt #:	23	%	Alternate HOLDING	AAO	2494

NOTE: DEPICTS ALTERNATE MISSED APPROACH, STANDARD CG 200'/NM

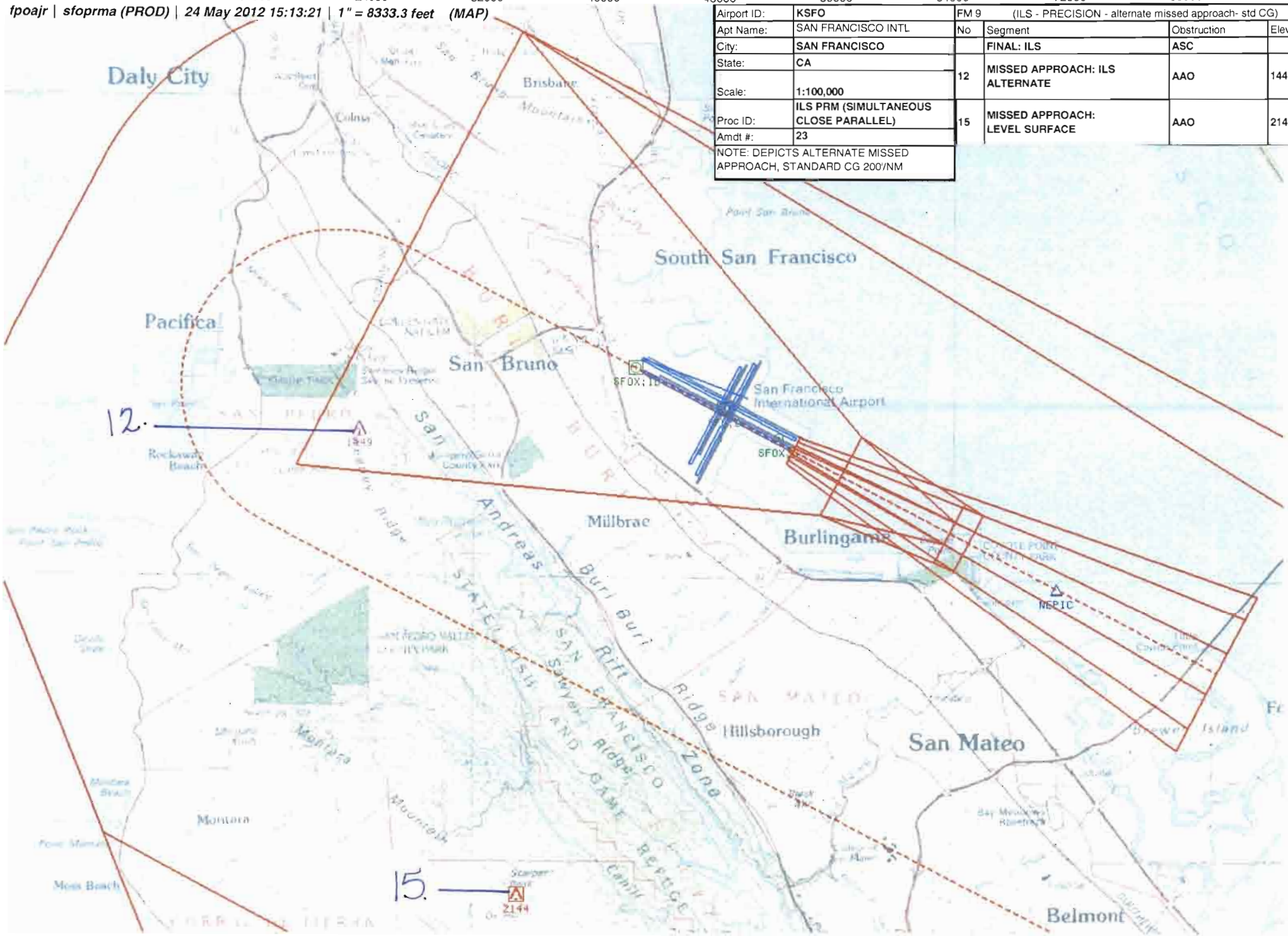


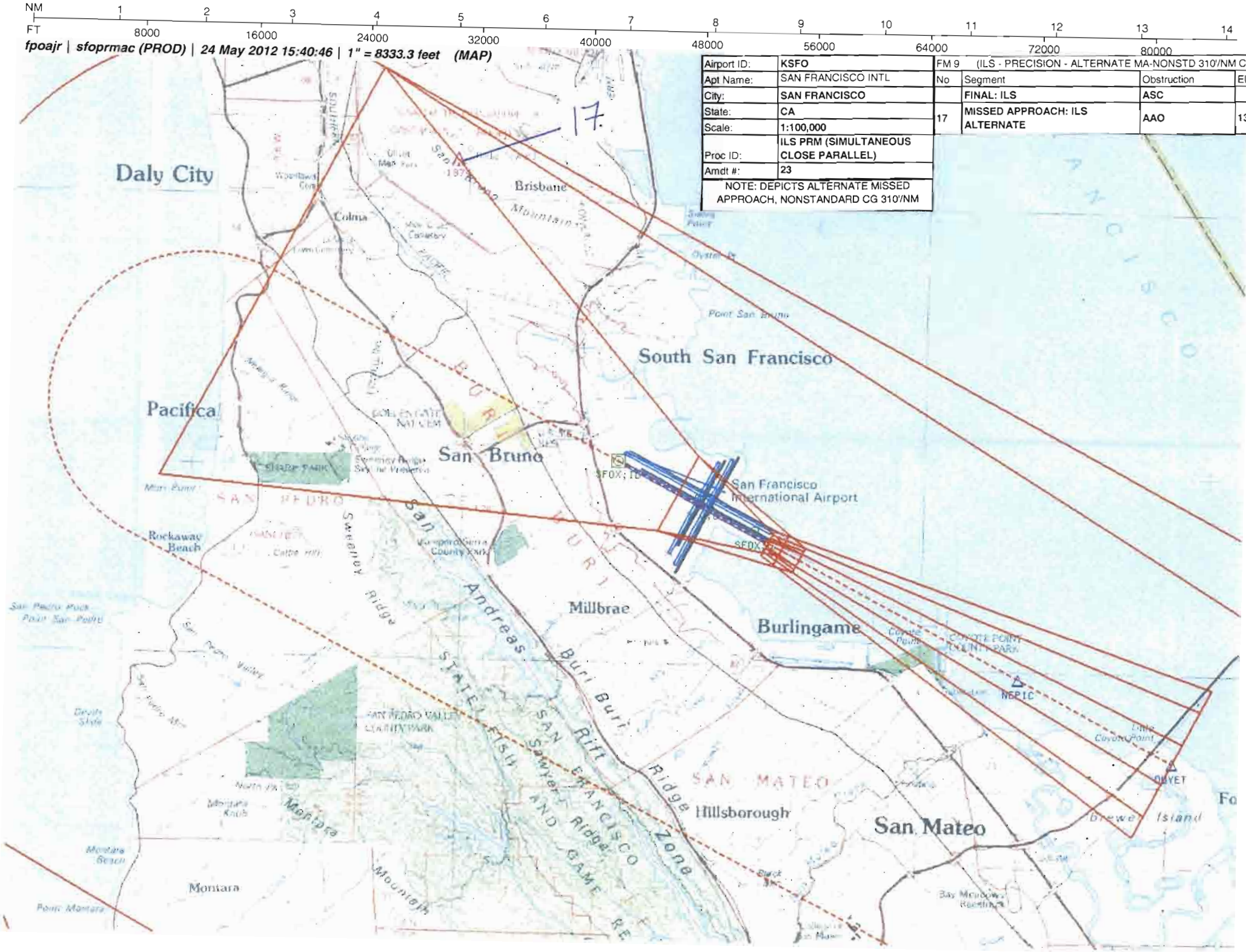
NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14

FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000

fpoajr | sfoprma (PROD) | 24 May 2012 15:13:21 | 1" = 8333.3 feet (MAP)

Airport ID:	KSFO	FM 9	(ILS - PRECISION - alternate missed approach- std CG)		
Apt Name:	SAN FRANCISCO INTL	No	Segment	Obstruction	Elev
City:	SAN FRANCISCO		FINAL: ILS	ASC	
State:	CA	12	MISSED APPROACH: ILS ALTERNATE	AAO	1449
Scale:	1:100,000				
Proc ID:	ILS PRM (SIMULTANEOUS CLOSE PARALLEL)	15	MISSED APPROACH: LEVEL SURFACE	AAO	2144
Amdt #:	23				
NOTE: DEPICTS ALTERNATE MISSED APPROACH, STANDARD CG 200'/NM					





Airport ID:	KSFO
Apt Name:	SAN FRANCISCO INTL
City:	SAN FRANCISCO
State:	CA
Scale:	1:100,000
Proc ID:	ILS PRM (SIMULTANEOUS CLOSE PARALLEL)
Amdt #:	23

NOTE: DEPICTS ALTERNATE MISSED APPROACH, NONSTANDARD CG 310'/NM

FM 9 (ILS - PRECISION - ALTERNATE MA-NONSTD 310'/NM CG)

No	Segment	Obstruction	Elev
	FINAL: ILS	ASC	
17	MISSED APPROACH: ILS ALTERNATE	AAO	1374

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
FAITH/SFO 27.72 DME (IAF)	DIVEC/I-SFO 23.74 DME	281.00 / 5.09 (SFO R-101)	7000
DIVEC/I-SFO 23.74 DME	PONKE/I-SFO 20.60 DME	280.81 / 3.14 (I-SFO)	6000
PONKE/I-SFO 20.60 DME	WETOR/I-SFO 17.47 DME	280.81 / 3.14 (I-SFO)	5000
WETOR/I-SFO 17.47 DME	ROKME/I-SFO 14.33 DME	280.81 / 3.14 (I-SFO)	4000
ROKME/I-SFO 14.33 DME	HEMAN INT/I-SFO 11.50 DME	280.81 / 2.83 (I-SFO)	3100
HEMAN INT/I-SFO 11.50 DME (IF)	DUYET INT/I-SFO 7.42 DME	280.81 / 4.08 (I-SFO)	1800

MISSED APPROACH

ILS: DA

CLIMB TO 2100 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 285 AND SFO VOR/DME R-280 TO OLYMM INT/SFO 15.00 DME AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 5000 DIRECT SJC VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD E, RT, 280.00 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E SJC VOR/DME, LT, 286.00 INBOUND.
CHART IN PLANVIEW: SJC VOR/DME.
CHART LDA RWY 28R.
CHART NEPIC/I-SFO 5.37 DME IN PROFILE AND PLANVIEW.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT DIVEC/I-SFO 23.74 DME
3. FAC: 280.81 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: DIVEC 7000, PONKE 6000, WETOR 5000, ROKME 4000, HEMAN 3100, DUYET 1800
5. DIST TO THLD FROM OM: 5.43 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1093
6. MIN GS INCPT: 1800 GS ALT AT: DUYET 1800 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 57.1
8. MSA FROM: SFO VOR/DME 050-180 4500, 180-300 3500, 300-050 5100

MAG VAR: 17E EPOCH YEAR: 1975

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A X

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 28L *	213	2400	200	213	2400	200	213	2400	200	213	2400	200			
S-ILS 28L	797	2 1/4	784	797	2 1/4	784	797	2 1/4	784	797	2 1/4	784			

NOTES:
CHART NOTE: *MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 310 FEET PER NM TO 2100.
CHART NOTE: RUNWAY 28L AND 28R SEPARATED BY 750 FEET CENTERLINE TO CENTERLINE.
CHART NOTE: SIMULTANEOUS CLOSE PARALLEL APPROACH AUTHORIZED WITH LDA PRM RUNWAY 28R. PROCEDURE NOT AUTHORIZED WHEN GLIDE SLOPE NOT AVAILABLE. DUAL VHF COMM REQUIRED. SEE ADDITIONAL (SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 13 THRE: 13	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: ILS PRM RWY 28L
SAN FRANCISCO, CA	AIRPORT NAME: SAN FRANCISCO INTL	I-SFO	ILS PRM RWY 28L, AMDT 2 (SIMULTANEOUS CLOSE PARALLEL), SEP 20 2012	AMDT: 1B DATED 03/10/2011

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		09/20/2012

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X ZOA, NORCAL APP CON, SFO ATCT, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: ADOLFO URRUTIA (AMANDA ROBBINS)	FIFO AJV-354	DATE: 05/23/2012

APPROVED BY		
NAME: DEZ SILAGYI MANAGER	FIFO AJV-354	DATE:

CHANGES:

GS: 373650.13N/1222140.10W, DME: 373739.54N/1222341.45W, LOC: 373737.46N/1222341.89W, NGS 405 SURVEY.
1. UPDATED DME: DIVEC 22.5 TO 23.74; PONKE 19.66 TO 20.60; WETOR 16.79 TO 17.47; ROKME 13.86 TO 14.33; HEMAN 11.49 TO 11.50; DUYET 7.27 TO 7.42.
2. UPDATED SEG DIST: FAITH TO DIVEC 6.27 TO 5.09; DIVEC TO PONKE 2.84 TO 3.14; PONKE TO WETOR 2.88 TO 3.14; WETOR TO ROKME 2.92 TO 3.14; ROKME TO HEMAN 2.37 TO 2.83; HEMAN TO DUYET 4.22 TO 4.08; DUYET TO THLD FROM 5.35 TO 5.43.
3. ADDED CHART NOTE: *MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 310 FEET PER NM TO 2100.
4. UPDATED TCH FROM 57.0 TO 57.1.
5. CHART ALTERNATE MA HOLDING AT SJC VOR/DME IN PLANVIEW.
6. ADDED RADIAL FROM OAK VORTAC TO HEMAN INT.
7. CHANGED ALL REFERENCES OF TDZE 13 TO THRE 13, AND ALL REFERENCES OF HAT CHANGED TO HATH.
8. ADDED * AND 310FT/NM MA CG TO 2100 TO S-ILS 28L 200 HATH BOTH MA.
9. ADDED NEW LINE OF MINS WITH 200FT/NM CG TO S-ILS 28L 784 HATH.
10.RMVD CHART NOTES: DISREGARD IM AND MM INDICATIONS; LOCALIZER ONLY NOT AUTHORIZED DURING CLOSE-PARALLEL OPERATIONS.
11. RMVD PLANVIEW/PROFILE NOTE:*WHEN ASSIGNED BY ATC, INTERCEPT GLIDEPATH AT ROKME, 4000; OR WETOR, 5000; OR PONKE, 6000; OR DIVEC, 7000.
12.MA CHANGED FROM: CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 VIA HEADING 285 AND SFO VOR/DME R-280 TO OLYMM INT/SFO VOR/DME 15.00 DME AND HOLD; SEE 8260-10

REASONS:

1.,2.,15. I-SFO LOC AND DME MOVED, AND 8260.54A L-V RNP PFAF FORMULA APPLIED TO ALL FIXES TO PLACE ON GS ICPT TO SUPPORT SIM CLOSE PARALLEL PRM, ALL FIXES MENTIONED IN CHANGE 1 MOVED.
3.NONSTD CG REQUIRED TO SUPPORT LOWER MINS, NOTE REQUIRED TO INFORM PILOTS OF REQUIREMENT, APPLIES TO BOTH PRIMARY AND ALTERNATE MA.
4.CORRECTED TO MATCH ASIS DATA, FACILITY TCH IS 57.1, NOT 57.
5.CRITERIA NOW REQUIRES TO CHART ALTERNATE MISSED APPROACH HOLDING.
6.FOR INTERSECTION FIX MAKEUP TO INTERMEDIATE.
7.CRITERIA CHANGED AND NOW REQUIRES DOCUMENTATION FROM THRE VS THE TDZE, AND HAT TO HATH.
8.ADDING AAO IN MA REQ CG 310FT/NM TO 2100 TO CLEAR OBST AND MAINTAIN LOWER MINS, PER CRITERIA MARKED NONSTD MINS W/* TO MATCH NOTE OF REQUIRED NONSTD CG REQUIREMENT FOR MINS.
9.FOR EACH LINE OF MINS A NONSTD MA CG IS APPLIED TO, CRITERIA REQUIRES A SECOND LINE OF MINS AT STD 200 FT/NM CG MA BE PUBLISHED.
10.NOTES ARE NO LONGER NECESSARY, AND PER FPT OM DCOM-NO SIGNAL.
11.PER CRITERIA THESE NOTES ARE NO LONGER ALLOWED ON PLATES FOR SIMULTANEOUS PROCEDURES.
12.MA CHANGES DUE TO, I-SFO LOC/DME MOVEMENT, AAO APPLICATION IN MA REQUIRING CG/CTA FOR LOWER MINS, WHICH REQUIRED ALL CTA TO BE THE SAME, FINALLY INSTRUCTIONS MODIFIED TO COMPLY WITH NEW CRITERIA MA INSTRUCTION CONVENTIONS.
13. HEMAN HAD TO BE IF IN ORDER FOR UNDERLYING ILS OR LOC R28L MENLO DR TRANSITION TO WORK, NORCAL APP CON ADV MUST KEEP MENLO TRANSITION.
14. REPLACES THE NOTE: LOCALIZER ONLY NOT AUTHORIZED DURING LCOSE-PARALLEL OPERATIONS, REQUIRED FOR SIMULTANEOUS PROCEDURES.
16. THE PUBLISHED ALT IS THE GS INTERCEPT ALT, AND CRITERIA NO LONGER ALLOWS US TO DEPICT MULTIPLE GS INTERCEPT ALT.
17. REBUILD OF PROCEDURE PROVIDES OPTIMUM DESCENT ANGLE OF 3.00 DEGREES IN INTERMEDIATE, THEREBY PROVIDING OPTIMUM DESCENT GRADIENT, NO WAIVER REQUIRED.

QUALITY CHECK

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
REQUIREMENTS ON AAUP.
CHART PROFILE NOTE: USE I-SFO DME WHEN ON THE LOCALIZER COURSE.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.
CHART PLANVIEW NOTE: RADAR AND DME REQUIRED.

CITY AND STATE	ELEVATION: 13 THRE: 13	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: ILS PRM RWY 28L
SAN FRANCISCO, CA	AIRPORT NAME: SAN FRANCISCO INTL	I-SFO	ILS PRM RWY 28L, AMDT 2 (SIMULTANEOUS CLOSE PARALLEL), SEP 20 2012	AMDT: 1B DATED: 03/10/2011

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

ORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
ME:	FIFO	DATE:
DEVELOPED BY		
ME:	FIFO	DATE:
APPROVED BY		
ME:	FIFO	DATE:

ANGES:

NGES CONT.
WHEN DIRECTED BY ATC, CLIMB HEADING 281 TO 3000, THEN CLIMBING LEFT TURN TO 5000 DIRECT SJC R/DME AND HOLD E, LEFT TURNS, 286 INBOUND ; TO READ: CLIMB TO 2100 THEN CLIMBINT RIGHT TURN TO 0 ON HEADING 285 AND SFO VOR/DME R-280 TO OLYMM INT/SFO 15.00 DME AND HOLD, OR AS DIRECTED BY C. ALT MA, CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 5000 DIRECT SJC VOR/DME AND HOLD. CHANGE HEMAN TO IF, CHANGE WETOR TO INITIAL SD. 14.ADDED CHART NOTE: PROCEDURE NOT AUTHORIZED EN GLIDESLOPE NOT AVAILABLE. 15.UPDATED DME FOR NEPIC FROM 5.30 DME TO 5.37 DME, DID NOT MOVE PIC. 16. REMOVED GS ALT AT HEMAN. 17. CANX WAIVER FOR NONSTANDARD INTERMEDIATE DESCENT ADIENT.

ASONS:

QUALITY CHECKED 2

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL	FAITH/SFO 27.72	DIVEC/I-SFO	1. AAO	372827.00N/1215121.00W	2464 (4E)	1000	XP3536	7000
	DME	23.74 DME	2. TERRAIN	372827.00N/1215121.00W	2264 (2300)		AS1500	3800
INITIAL	DIVEC/I-SFO	PONKE/I-SFO	3. AAO	373106.00N/1215315.00W	2189 (4E)	1000	SA-897 XP3708	6000
	23.74 DME	20.60 DME	4. TERRAIN	373003.00N/1215503.00W	207 (200)		AS1500	1700
INITIAL	PONKE/I-SFO	WETOR/I-SFO	5. AAO	373142.00N/1515857.00W	246 (4E)	1000	XP3754	5000
	20.60 DME	17.47 DME	6. TERRAIN	373142.00N/1215857.00W	46 (0)		AS1500	1500
INITIAL	WETOR/I-SFO	ROKME/I-SFO	7. AAO	373313.35N/1220539.88W	499 (2C)	1000	XP2501	4000
	17.47 DME	14.33 DME	8. TERRAIN	373313.35N/1220539.88W	299 (300)		AS1500	1800
INITIAL	ROKME/I-SFO	HEMAN INT/I-SFO	7. AAO	373313.35N/1220539.88W	499 (2C)	1000	XP1601	3100
	14.33 DME	11.50 DME	9. TERRAIN	373419.02N/1220616.48W	119 (100)		AS1500	1600
INTERMEDIATE	HEMAN INT/I-SFO	DUYET INT/I-SFO	10. TOWER (06-000075)	373250.00N/1221402.00W	560 (1C)	500	XP740	1800
	11.50 DME	7.42 DME	11. TERRAIN	372903.00N/1221327.00W	17 (0)		AS1500	1500
FINAL: ILS	DUYET INT/I-SFO	RW28L				CG/23:1	$	213/200
	7.42 DME							
2. PROCEDURE TURN	NA							
3. MISSED APPROACH — MAP:	DA / DA	OLYMM INT/SFO	12. AAO	373651.04N/1222738.01W	1449 (2C)	34:1	AC20	3000
		15.00 DME	13. TOWER (06-002525)	374114.38N/1222605.32W	1569 (1A)	1000		2600
ELEV:	44/372		14. TERRAIN	374115.00N/1222612.00W	1316 (1300)		AS1500	2800

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **SFO VOR/DME**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
050-180	AAO	133/ 27.3	3432 (4E)	4500	300-050	AAO	037/ 26.9	4049 (2A)	5100
180-300	AAO	311/ 21.3	2474 (4E)	3500					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SAN FRANCISCO, CA	ELEVATION: 13 AIRPORT NAME: SAN FRANCISCO INTL	I-SFO	ILS PRM RWY 28L, AMDT 2 (SIMULTANEOUS CLOSE PARALLEL),	AWP

QUALITY CHECKED 2

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZOA ARTCC SFO TOWER NORCAL APP CON		N W S	OTHER: ASOS	SOURCE: KSFO
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION: 24
SATISFACTORY ON:				
X V H F X U H F H F	LOCATION: KSFO			ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID: I-SFO		
	MONITOR POINT:		
	HRS OPTN:	CAT 1	24
		CAT 3	

5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 28R
		(S) SALS
	X	MALSF 19L
	X	HIRL 01R, 19L, 01L, 10L, 10R, 19R, 28R, 28L
		MIRL
	X	REIL 01R, 01L, 10L
	X	TDZ 19L, 28R
	X	C/L 01R, 19L, 01L, 10L, 10R, 19R, 28R, 28L
	X	OTHER (SPECIFY) SSALR 28L PAPI-4L 19L, 10L, 10R, 19R, 28R, 28L

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 01R, 19L, 10L, 10R, 28R, 28L
	INSTRUMENT	NPI-G 01L, 19R
7. RUNWAY VISUAL RANGE	APPROACH	01R, 19L, 01L, 10L, 10R, 19R, 28R, 28L
	MIDFIELD	01R, 19L, 01L, 10L, 10R, 19R, 28R, 28L
	ROLL OUT	01R, 19L, 01L, 10L, 10R, 19R, 28R, 28L

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 12.7
	DISTANCE FROM RWY: 1093	ELEV GP ANTENNA: 12.5
		THRESHOLD CROSSING HEIGHT: 57.1

9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: ADOLFO URRUTIA (AMANDA ROBBINS)	DATE: 05/23/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

VDP NOT ESTABLISHED - PRECISION APPROACH ONLY.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

MISSED APPROACH OBSTACLES CONT.
$=NONSTANDARD CG 310FT /NM TO 2100, THEN... APPLIES TO BOTH PRIMARY AND ALTERNATE MA FOR LOWER DA.

ALTERNATE WITH STANDARD CG:
12. AAO 373651.04N/1222738.01W 1449 (2C) 34:1 AC20 5000 - ILS SLOPE STD CG
15. AAO 373134.70N/1222523.40W 2144 (2C) 1000 3200 - LEVEL SURFACE STD CG
16. TERRAIN 373134.70N/1222523.40W 1944 (1900) AS1500 3400 -LEVEL TERRAIN STD CG

PRIMARY WITH NONSTANDARD 310FT/NM CG TO 2100:
$17. AAO 374103.57N/1222607.25W 1374 (2C) CG/23:1 3000 -ILS SLOPE NONSTD CG & CTA

ALTERNATE WITH NONSTANDARD 310FT/NM CG TO 2100:
$17. AAO 374103.57N/1222607.25W 1374 (2C) CG/23:1 5000 - ILS SLOPE NONSTD CG & CTA

SEE ATTACHED AIRSPACE LETTER.

NEPIC UTILIZED AS THE END OF THE NO TRANSGRESSION ZONE (NTZ) BETWEEN SIMULTANEOUS CLOSE PARALLEL - LDA PRM RWY 28R PROCEDURE.

DUYET IS PFAF.

ASOS ON SERVICE A. BACKUP ALTIMETER NOT REQUIRED DUE TO REDUNDANT LOCAL SOURCES PER FPT.
VGSI DATA 3.00/75

ASSUMED VEG 100FT PER FPT.
TALLEST MASTED VESSEL KNOWN TO TRAVERSE W/IN 3 MI OF THE AREA IS NOT OVER 150' PER WST FPT, SFO INTL ATCT, SFO USCG AT SFO INTL, AND THE USCG VESSEL TRAFFICE SVC IN SFO. AGENCIES ALSO INDICATE THE BAY SHIP CHANNEL IS AT LEAST 3 MILES FROM SFO INTL.

OBST 3 LOCATED 9229 FT INTO SECONDARY.

LOCATION AND ALTITUDE DETERMINED FOR INTERCEPTION OF GS, USING 8260.54A L-V RNP PFAF FORMULA 2-16B, ALL ON 3.00 DEGREE GS: HEMAN 3100, ROKME 4000, WETOR 5000, PONKE 6000, DIVEC 7000.

DIVEC, PONKE, WETOR, ROKME, HEMAN, DUYET ARE ALL ON A 3.00 DEGREE GS AND L-V FORMULA PLACEMENT, AS SUCH THE DESCENT GRADIENT IS 318FT/NM AND CHANGE. IAPA DID NOT LIKE THE CHANGE AFTER DECIMAL, I HAD TO PUT DIFFERENT ALT IN INTERMEDATE AND LAST INITIAL STEPDOWN IN ORDER TO GET IT TO BUILD AT THE RIGHT LOCATION. 101 ADV NO WAIVER FOR THIS, AS IT IS THE IDEAL 3.00 DEGREE GLIDESLOPE, IT IS A PROGRAMMING ISSUE.

INTERMEDIATE LENGTH FROM HEMAN TO PFAF MEETS 8260.3 VOL 3 ILS CRITERIA. HEMAN IS NOW INTERMEDIATE DUE TO DEAD RECKONING FROM MENLO, THIS IS THE ONLY WAY MENLO DR WORKS, AND NORCAL APP CON ADV MUST KEEP MENLO TRANSITION.

GRANDFATHER REMARK: PARALLEL APPROACH OBSTACLE ASSESSMENT (PAOA) WAS COMPLETED IAW TERPS VOL 3, CONT.

QUALITY 2 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: ILS	**DUYET INT/I-SFO**	**RW28L**				**34:1**	**MA584**	**797/784**
	7.42 DME							

3. MISSED APPROACH								
	MAP:							
	ELEV:							

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

QUALITY CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SAN FRANCISCO, CA	**ELEVATION: 13** AIRPORT NAME: **SAN FRANCISCO INTL**	**I-SFO**	**ILS PRM RWY 28L, AMDT 2** **(SIMULTANEOUS CLOSE PARALLEL),**	**AWP**

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
SATISFACTORY ON:	N W S / F A A / A / C	OTHER:	SOURCE:
			DISTANCE:
			HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:		ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

CONTINUED.
APPENDIX 4 FOR INITIAL DEVELOPMENT OF PROCEDURE: NO PENETRATIONS

FAAO 8260.3 VOL1, VISUAL PORTION OF FINAL PENETRATIONS:

FPT NOTIFIED VIA EMAIL 21 MAY 2012 WITH A FULL LIST OF ALL PENETRATIONS, TOO MANY TO LIST ALL HERE, BUT DID LIST HIGHEST PENETRATION FOR THE 4 RWYS IMPACTED BY 20:1.
NO 20:1 OR 34:1 PENETRATIONS FOR RW28L
20:1
R01L 491 TREE (KSFOT2062) 373516.27N/1222402.84W(0.61)
R01R 588 TREE (KSFOT2457) 373503.05N/1222358.14W (82.99)
R10R 26 DME 28L (KSFOT3287) 373734.57N/1222339.34W (14.17)
R19R 14 OL ON LEVEE (KSFO0020) 373739.77N/1222211.21W (4.94)

XP 10: GS INTERCEPT ALT AND DIST

XP 1: GS INTERCEPT ALT AND DIST

XP 3: GS INTERCEPT ALT AND DIST

XP 5: GS INTERCEPT ALT AND DIST

XP 7: GS INTERCEPT ALT AND DIST

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DIVEC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 372629.85N/1215720.03W **TYPE:** 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-SFO	LOC/DME		100.81	117.81	23.74	23.73		7000	8000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-SFO	LOC/DME	R-101	24	7000	8000

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

REMARKS:
I-SFO/DME ANTENNA COORDINATES: 373739.54N-1222341.45W
8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERSECTS THE SPECIFIED MSL ALTITUDE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIM CLOSE PARALLEL)	1		KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX MOVED SE 1.18NM, FIX NAME RETAINED FOR ATC OPERATIONAL REQUIREMENT.
UPDATED FIX USE AND FORMAT.
FAC1 IN HISTORY STATUS.
ADDED FAC1 DIST FROM FAC IN NM.
UPDATED FAC1 DME DIST FROM 22.50NM TO 23.74NM.
ADDED REMARK 8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERSECTS THE SPECIFIED MSL ALTITUDE.
REMOVED REMARK AFS420 CALCULATOR UTILIZED TO ESTABLISH PFAF COORDINATES WHERE THE ILS GLIDEPATH INTERSECTS THE SPECIFIED MSL ALTITUDE.
UPDATED REMARK I-SFO/DME ANTENNA COORDINATES LAT/LONG FROM 373733.93N-1222339.54W TO 373739.54N-1222341.45W, LOC AND DME MOVED.
REMOVED REMARK FAC 1 ESV ON FILE E CRS/21NM 7000-8000.
ADDED UPDATED ESV FOR FAC1.

DEVELOPED BY: **DATE:** 05/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY CHECKED 2

RADIO FIX AND HOLDING DATA RECORD

NAME: DUYET **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 373409.74N/1221527.38W **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	DIST FROM FAC FEET	MRA	MAA
1	SAN FRANCISCO	I-SFO	LOC/DME		100.81	117.81	7.42	7.41	45004	1800	4500
2	OAKLAND	OAK	VORTAC	H	172.81	189.81		9.52		1800	17500

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

REMARKS:
8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES.
I-SFO/DME ANTENNA COORDINATES: 373739.54N-1222341.45W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28L	1, 2		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIM CLOSE PAR)	1, 2		KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) RWY 28L			KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX MOVED SE 480.05 FT, DUE TO 8260.54A L-V FORMULA.
UPDATED FACILITIES, ALL FACILITIES IN HISTORY STATUS.
I-SFO LOC AND DME MOVED.
CHANGED LAT/LONG IN I-SFO/DME ANTENNA COORDINATES REMARK TO NEW COORDINATES.
UPDATED FAC1 DME DIST FROM 7.27 TO 7.42.
UPDATED FAC1 DIST FROM FAC IN NM AND FEET FROM 7.26/44133 TO 7.41/45004.
UPDATED FAC2 DIST FROM FAC FROM 9.50 TO 9.52, AND BRG FROM 190.27/173.27 TO 189.81/172.81.
DELETED FAC2 DME, NOT USED FOR FIX.
DELETED FAC3 SFO VOR/DME, NO LONGER USED FOR FIX.
REMOVED REMARK: PFAF COORDINATES DERIVED FROM 8260.54 RNP FORMULA.
ADDED REMARK: 8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES.

DEVELOPED BY: **DATE:** 05/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FAITH STATE: CA COUNTRY: US

LATITUDE/LONGITUDE: 372404.38N 1215142.84W 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 NM	FEET	MRA	MAA
1	SAN FRANCISCO	SFO	VOR DME	L	101.00	118.00	27.72	27.72		4100	17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIM CLOSE PAR)	1		KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) RWY 28L			KSFO	SAN FRANCISCO	CA (US)
STAR	YOSEM (RNAV)			KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FAC1 IN HISTORY STATUS.

DEVELOPED BY: **DATE:** 05/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HEMAN **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 373215.02N/1221055.17W **TYPE:** 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	DIST FROM FAC FEET	MRA	MAA
1	SAN FRANCISCO	I-SFO	LOC/DME		100.81	117.81	11.50	11.49		3100	4500
2	OAKLAND	OAK	VORTAC	H	153.03	170.03		11.46		3100	17500

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

REMARKS:
I-SFO/DME COORDINATES: 373739.54N-1222341.45W.
8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERSECTS THE SPECIFIED MSL ALTITUDE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28L	1, 2		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIMULTANEOUS CLOSE PARALLEL)	1, 2		KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX MOVED SE 362.83FT.
UPDATED FIX USE AND FIX USE FORMAT.
FAC1 IN HISTORY STATUS.
UPDATED FAC1 DME FROM 11.49 TO 11.50.
ADDED FAC1 DIST FROM FAC IN NM.
DELETED FAC2, NO LONGER USED FOR FIX MAKEUP.
UPDATED I-SFO/DME COORDINATES REMARK TO NEW COORDINATES.
REMOVED ESV, NO LONGER APPLIES.
REMOVED REMARK: AFS420 CALCULATOR UTILIZED TO ESTABLISH COORDINATES WHERE THE ILS GLIDEPATH INTERSECTS THE SPECIFIED MSL ALTITUDE.
ADDED REMARK: 8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERSECTS THE SPECIFIED MSL ALTITUDE.
MOVED BACKUP FACILITY OAK VORTAC TO FAC2, NOW USED FOR INTERSECTION.

DEVELOPED BY: **DATE:** 05/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NEPIC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 373507.36N/1221744.36W **TYPE:** 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	DIST FROM FAC FEET	MRA	MAA
1	SAN FRANCISCO	I-SFO	LOC/DME		100.81	117.81	5.37	5.35			

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

REMARKS:
I-SFO DME COORDINATES: 373739.54N-1222341.45W.
FIX DEPICTS END OF THE NO TRANSGRESSION ZONE(NTZ) BETWEEN KSFO ILS PRM RWY 28L SIMULTANEOUS CLOSE PARALLEL AND LDA PRM RWY 28R SIMULTANEOUS CLOSE PARALLEL PROCEDURES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS PRM RWY 28L (SIMULTANEOUS CLOSE PARALLEL)	1		KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FAC1 IN HISTORY STATUS.
UPDATED FAC1 DME DIST FROM 5.3 TO 5.37, DME FACILITY MOVED.
ADDED DIST FROM FAC NM TO FAC1.
UPDATE FIX USE FORMAT AND FIX USE.
REMOVE FROM FIX USE: FIX DEPICTS THE END OF THE NO TRANSGRESSION ZONE(NTZ).
ADDED REMARK: FIX DEPICTS END OF THE NO TRANSGRESSION ZONE(NTZ) BETWEEN KSFO ILS PRM RWY 28L SIMULTANEOUS CLOSE PARALLEL AND LDA PRM RWY 28R SIMULTANEOUS CLOSE PARALLEL PROCEDURES.
ADDED REMARK: I-SFO DME COORDINATES: 373739.54N-1222341.45W.

DEVELOPED BY: **DATE:** 05/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OLYMM STATE: CA COUNTRY: US

LATITUDE/LONGITUDE: 374358.05N/1223916.83W 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	DIST FROM FAC FEET	MRA	MAA
1	SAN FRANCISCO	SFO	VOR/DME	L	280.00	297.00	15.00	15.00		3000	17500
2	SAUSALITO	SAU	VORTAC	L	203.54	220.54		9.66		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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	SFO	VOR/DME	280.00	280.00	R	1		3000	6000	5	6
2	E		WP	100.00	280.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	374116.54N/1222621.56W	1374	2C
2	200	AAO	374116.54N/1222621.56W	1374	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN(S)

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	ILS OR LOC RWY 28L	1, 2	1	KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIM CLOSE PAR)	1, 2	1	KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) RWY 28L		2	KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) Z RWY 28R		2	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP, AREA

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 DATE OF REVISION: 09/20/2012

REASON FOR REVISION:
FAC1 IN HISTORY STATUS.
UPDATED PAT1 AND PAT2 MIN TEMPLATE PAT FROM 4 TO 5.
UPDATED PAT1 AND PAT2 OBST FROM 06-000120 1811FT MSL, TO AAO: 06-000120 IS CTRL FOR TEMPLATE 6, BUT SHOULD NOT BE LISTED.
ADDED REMARK: SAN FRANCISCO (FAC 1) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: DATE: 05/20/2012 OFFICE: AJV-354 NAME: ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: DATE: OFFICE: AJV-354 NAME: DEZ SILAGYI

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PONKE **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 372758.50N/1220048.82W **TYPE:** 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	DIST FROM FAC FEET	MRA	MAA
1	SAN FRANCISCO	I-SFO	LOC/DME		100.81	117.81	20.60	20.59		6000	7000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-SFO	LOC/DME	R-101	21	6000	7000

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

REMARKS:
I-SFO/DME ANTENNA COORDINATES: 373739.54N-1222341.45W.
GS ANTENNA COORDINATES: 373650.12N-1222140.09W.
8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERCEPTS THE SPECIFIED MSL ALTITUDE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIM CLOSE PAR)	1		KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX MOVED SE 5319.96FT.
FAC1 IN HISTORY STATUS.
UPDATED ESV USE AND FORMAT.
UPDATE FIX USE AND FIX USE FORMAT, ADDED ESV.
UPDATED FAC1 DME FROM 19.66 TO 20.60.
ADDED DIST FROM FAC NM.
ADDED REMARK: 8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERCEPTS THE SPECIFIED MSL ALTITUDE.
ADDED REMARK: GS ANTENNA COORDINATES: 373650.12N-1222140.09W.
REMOVED REMARK: AFS420 CALCULATOR UTILIZED TO ESTABLISH PFAF COORDINATES WHERE THE ILS GLIDEPATH INTERSECTS THE SPECIFIED MSL ALTITUDE.
REMOVED REMARK: FAC 1 ESV ON FILE: E CRS/18NM 6000-7000.
UPDATED REMARK: I-SFO/DME WITH NEW DME COORDINATES.

DEVELOPED BY: **DATE:** 05/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ROKME **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 373055.50N/1220746.87W **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 NM	FEET	MRA	MAA
1	SAN FRANCISCO	I-SFO	LOC/DME		100.81	117.81	14.33	14.31		4000	6000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-SFO	LOC/DME	R-101	15	4500	6000

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

REMARKS:
I-SFO/DME ANTENNA COORDINATES: 373739.54N-1222341.45W.
GS ANTENNA COORDINATES: 373650.12N-1222140.09W.
8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERCETS THE SPECIFIED MSL ALTITUDE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIM CLOSE PAR)	1		KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) RWY 28L			KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FAC1 IN HISTORY STATUS, LOC AND DME MOVED.
FIX MOVED SE 2407.25 FT.
UPDATED FAC1 DME FROM 13.86 TO 14.33.
UPDATED FAC1 DIST FROM FAC NM 1385 TO 14.31.
ESV FORMAT AND USE UPDATED.
REMARK ISFO/DME ANTENA COORDINATES UPDATED TO NEW LAT/LONG.
REMOVED REMARK RNP PFAF FORMULA USED.
ADDED REMARK 8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERCETS THE SPECIFIED MSL ALTITUDE.

DEVELOPED BY: **DATE:** 05/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SAN JOSE VOR/DME **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 372228.96N/1215640.80W **TYPE:**

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	DIST FROM FAC FEET	MRA	MAA
1	SAN JOSE	SJC	VOR/DME	L							18000

HOLDING: **HOLDING TYPE OF ACTION:**

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	SJC	VOR/DME	106.00	286.00	L	1		3000	14000	4	10
2	E		WP	106.00	286.00	L		4	3000	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	372033.00N/1214430.00W	2494	4E
2	200	AAO	372021.00N/1214418.00W	2536	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 AIR TRAFFIC

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PATTERN 1 CONTROLLING OBSTACLE LOCATED 11722.29 FT INTO SECONDARY.
PATTERN 2 CONTROLLING OBSTACLE LOCATED 8942.83 FT INTO SECONDARY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKE OFF MINIMUMS			KCVH	HOLLISTER	CA (US)
DP	BYRON			KLVK	LIVERMORE	CA (US)
DP	MONTEREY			KMRY	MONTEREY	CA (US)
DP	MUNSO			KMRY	MONTEREY	CA (US)
DP	SECA			KMRY	MONTEREY	CA (US)
DP	TORO			KMRY	MONTEREY	CA (US)
DP	NUEVO			KOAK	OAKLAND	CA (US)
DP	TAKE OFF MINIMUMS			KPAO	PALO ALTO	CA (US)
DP	CHALONE			KSNS	SALINAS	CA (US)
DP	SALINAS			KSNS	SALINAS	CA (US)
DP	TAKE OFF MINIMUMS			KSQL	SAN CARLOS	CA (US)
DP	EUGEN			KSFO	SAN FRANCISCO	CA (US)
DP	ALTAM			KSJC	SAN JOSE	CA (US)
DP	DANVILLE			KSJC	SAN JOSE	CA (US)
DP	LOUPE			KSJC	SAN JOSE	CA (US)
DP	MOONY			KSJC	SAN JOSE	CA (US)
DP	SAN JOSE			KSJC	SAN JOSE	CA (US)
DP	SUNOL			KSJC	SAN JOSE	CA (US)
DP	TAKE OFF MINIMUMS			KE16	SAN MARTIN	CA (US)
EN ROUTE	T259					(US)
EN ROUTE	V334					(US)
EN ROUTE	V485					(US)
IAP	LOC/DME RWY 28L			KHWD	HAYWARD	CA (US)
IAP	RNAV (GPS) RWY 28L			KHWD	HAYWARD	CA (US)
IAP	VOR/DME-A			KHWD	HAYWARD	CA (US)
IAP	ILS OR LOC/DME RWY 27R			KOAK	OAKLAND	CA (US)
IAP	VOR RWY 9R			KOAK	OAKLAND	CA (US)
IAP	GPS RWY 31		2	KPAO	PALO ALTO	CA (US)
IAP	VOR/DME RWY 31		1	KPAO	PALO ALTO	CA (US)
IAP	ILS OR LOC RWY 28L		1	KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIM CLOSE PARALLEL)		1	KSFO	SAN FRANCISCO	CA (US)
IAP	FAIRGROUNDS VISUAL RWY 30L			KSJC	SAN JOSE	CA (US)
IAP	FAIRGROUNDS VISUAL RWY 30R			KSJC	SAN JOSE	CA (US)
IAP	ILS OR LOC RWY 12R			KSJC	SAN JOSE	CA (US)
IAP	ILS OR LOC/DME RWY 30L			KSJC	SAN JOSE	CA (US)
IAP	RNAV (GPS) RWY 11			KSJC	SAN JOSE	CA (US)
IAP	RNAV (GPS) Y RWY 12L			KSJC	SAN JOSE	CA (US)
IAP	RNAV (GPS) Y RWY 12R			KSJC	SAN JOSE	CA (US)
IAP	VOR RWY 12R			KSJC	SAN JOSE	CA (US)
IAP	VOR/DME RWY 30L			KSJC	SAN JOSE	CA (US)

QUALITY 2 CHECKED

STAR	MADWIN	KHWD	HAYWARD	CA (US)
STAR	PANOCHE	KHWD	HAYWARD	CA (US)
STAR	MADWIN	KOAK	OAKLAND	CA (US)
STAR	MARVN	KOAK	OAKLAND	CA (US)
STAR	PANOCHE	KOAK	OAKLAND	CA (US)
STAR	GOLDEN GATE	KSFO	SAN FRANCISCO	CA (US)
STAR	HADLY	KSFO	SAN FRANCISCO	CA (US)
STAR	CAPITOL	KSJC	SAN JOSE	CA (US)
STAR	EL NIDO	KSJC	SAN JOSE	CA (US)
STAR	JAWWS	KSJC	SAN JOSE	CA (US)
STAR	ROBIE	KSJC	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FAC TO CURRENT AVNIS DATA.
REMOVED "200'" FROM PAT 1 AND 2 CONTROLLING OBSTRUCTION DESCRIPTION.
REMOVED PR ADJUSTMENTS FROM PAT1 AND PAT2.
MOVED PAT1 AND PAT2 CONTROLLING OBST FT INTO SECONDARY REMARKS FROM HOLDING RESTRICTIONS TO REMARKS.
CHANGED PAT1 FT INTO SECONDARY FROM 11791 TO 11722.29.
CHANGED PAT2 FT INTO SECONDARY FROM 9555 TO 8942.83.
UPDATED FIX USE.
UPDATED DISTRIBUTION.

DEVELOPED BY: **DATE:** 04/27/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: SJC ATCT
OTHER: NORCAL APP CON, SFO ATCT

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WETOR **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 372927.05N/1220417.78W **TYPE:** 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	DIST FROM FAC FEET	MRA	MAA
1	SAN FRANCISCO	I-SFO	LOC/DME		100.81	117.81	17.47	17.45		5000	6000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-SFO	LOC/DME	R-101	18	5000	6000

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

REMARKS:
I-SFO/DME ANTENNA COORDINATES: 373739.54N-1222341.45W.
I-SFO GS ANTENNA COORDINATES: 373650.13N-1222140.10W.

8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERCETS THE SPECIFIED MSL ALTITUDE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L (SIMULTANEOUS CLOSE PARALLEL)	1		KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX MOVED SE BY 3731.70FT.
FAC1 IN HISTORY, LOC AND DME MOVED.
UPDATED ESV FORMAT AND ESV USE.
UPDATED FAC1 DME FROM 16.79 TO 17.47.
ADDED FAC1 DIST FROM FAC NM.
REMOVED REMARK: AFS420 CALCULATOR UTILIZED TO ESTABLISH PFAF COORDINATES WHERE THE ILS GLIDEPATH INTERSECTS THE SPECIFIED MSL ALTITUDE.
ADDED REMARK: 8260.54A RNP PFAF L-V FORMULA USED TO ESTABLISH COORDINATES WHERE ILS GLIDEPATH INTERCETS THE SPECIFIED MSL ALTITUDE.
UPDATED REMARK: I-SFO/DME ANTENNA COORDINATES: FROM 373733.93N-1222339.54W TO 373739.54N-1222341.45W.
ADDED REMARK: I-SFO GS ANTENNA COORDINATES: 373650.13N-1222140.10W.

DEVELOPED BY: **DATE:** 05/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **SAN FRANCISCO** STATE: **CA**

AIRPORT NAME: **SAN FRANCISCO INTL** ID: **KSFO**

PROCEDURE: **ILS PRM RWY 28L** AMDT: **2**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.24**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **0.92**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **297.81**
4. High Terrain in **FINAL** segment containing 1000' point **99**
5. Distance from **THLD** to 1500' point **4.81**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.26**
7. True Course of **FINAL** segment containing 1500' point **297.81**
8. High Terrain in **FINAL** segment containing 1500' point **99**
9. Threshold Coordinates (if straight-in) ... **373642.16N** / **1222130.06W**
10. ARP Coordinates ..... **373708.30N** / **1222229.60W**
11. Runway Approach End and distance furthest from ARP.....RWY **10L**
    Distance **1.06** NM
12. FAF Coordinates ..... **373409.74N** / **1221527.38W**
    (Click to Select)

REMARKS: Approach/Drawing attached.