Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 03/11/2011	Task #: 2011031123225302002	Request #: 20110311232253
Procedure: SID MOLEN FOUR SAN FRANCISCO CA KSFO		Airport ID: KSFO	Airport: SAN FRANCISCO INTL		Reimbursable #:
City: SAN FRANCISCO	ST: CA	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	Fac. Type: Proc TR	Specialist: CHARLES ERICKSON			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/09/2012	06/18/2012	STEVEN SZUKALA	
QA:	06/18/2012	06/18/2012	STEVEN SZUKALA	
Liaison:	06/18/2012		Alfonso	APPROVAL REQUEST - WAIVER

Procedure Comments: ENROUTE **Remark Type:** INFORMATION pkg 2 of 10

SAN FRANCISCO, CA SAN FRANCISCO INTL (KSFO) MOLEN FOUR (SID) ENROUTE-YES FC: 7.24.12 PUB: 9.20.12

ATTACHED FORMS: 8260-15B; 8260-15C; 8260-2(S). MOLEN-INT, REV 7; SIPLY-INT, REV 1; STINS-INT, REV 9; WESLA-INT, REV 8; (INFO ONLY) MENDOCINO (ENI) VTAC, REV 9; POINT REYES (PYE) VTAC, REV 12; SAN FRANCISCO (SFO) VDME, REV 6; SAUSALITO (SAU) VTAC, REV 6.

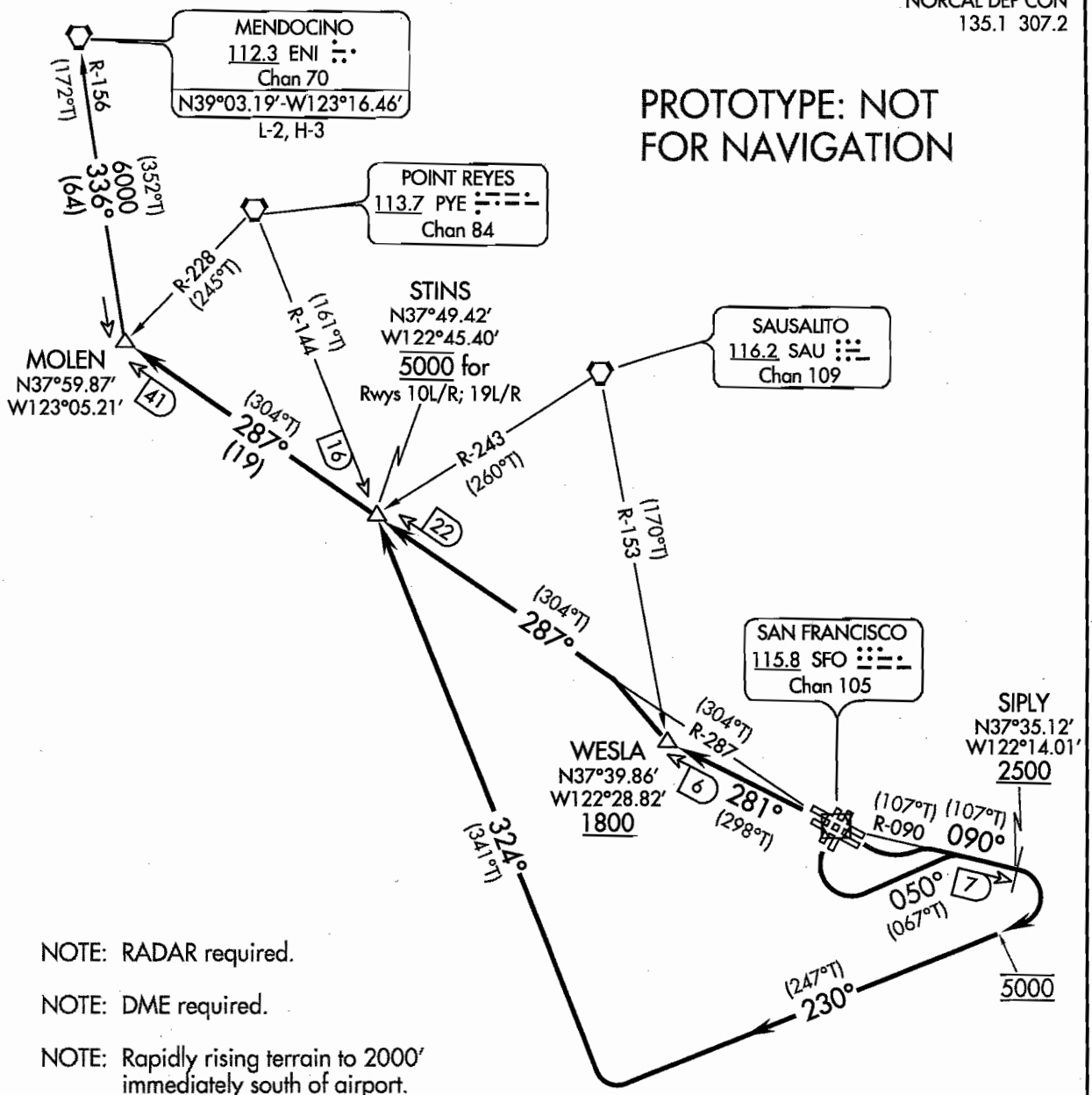
CONTACT: ADOLFO URRUTIA, AJV-354 LEAD, 405.954.2079:

MOLEN FOUR DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2



NOTE: RADAR required.

NOTE: DME required.

NOTE: Rapidly rising terrain to 2000' immediately south of airport.

TAKEOFF MINIMUMS

Rwy 10L/R: Standard with minimum climb of 360' per NM to 2500.
Rwy 19L/R: Standard with minimum climb of 565' per NM to 2000.
Rwy 28L/R: Standard with minimum climb of 390' per NM to 1800.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L/R: Climbing left turn to intercept SFO R-090 to cross SIPLY 7 DME fix at or above 2500, then climbing right turn to 5000 on heading 230° to intercept and proceed on PYE R-144 to cross STINS INT/SFO 22 DME at 5000, then on SFO VOR/DME R-287 to MOLEN INT/SFO 41 DME. Thence . . . .

TAKEOFF RUNWAYS 19L/R: Climbing left turn heading 050° to intercept SFO R-090 to cross SIPLY 7 DME fix at or above 2500, then climbing right turn to 5000 heading 230° to intercept and proceed on PYE R-144 to cross STINS INT/SFO VOR/DME 22 DME at 5000, then on SFO VOR/DME R-287 to MOLEN INT/SFO 41 DME. Thence . . . .

TAKEOFF RUNWAYS 28 L/R: Climb on SFO VOR/DME R-281 to cross WESLA INT/SFO VOR/DME 6 DME at or above 1800 then right turn to intercept SFO R-287 to MOLEN INT/SFO 41 DME. Thence . . . .

. . . . on (transition). Expect clearance to filed altitude ten minutes after departure.

MENDOCINO TRANSITION (MOLEN4.ENI): From over MOLEN INT via ENI R-156 ENI VORTAC

PROTOTYPE: NOT FOR NAVIGATION

TAKEOFF OBSTACLE NOTES

Rwy 1L: Sign, fence beginning 169′ from DER, 226′ left of centerline, up to 7′ AGL/14′ MSL. Obstruction light on levee and fence beginning 209′ from DER, 2′ left of centerline, up to 6′ AGL/14′ MSL.

Rwy 1R: Fence 3′ from DER, 329′ left of centerline, 7′ AGL/13′ MSL. Terrain 62′ from DER, 330′ left of centerline, 12′ MSL. Terrain 91′ from DER, 515′ right of centerline, 14′ MSL.

Rwy 10L: Sign 62′ from DER, 300′ left of centerline, 4′ AGL/15′ MSL. Building and rod on building beginning 257′ from DER, 560′ left of centerline, up to 12′ AGL/24′ MSL.

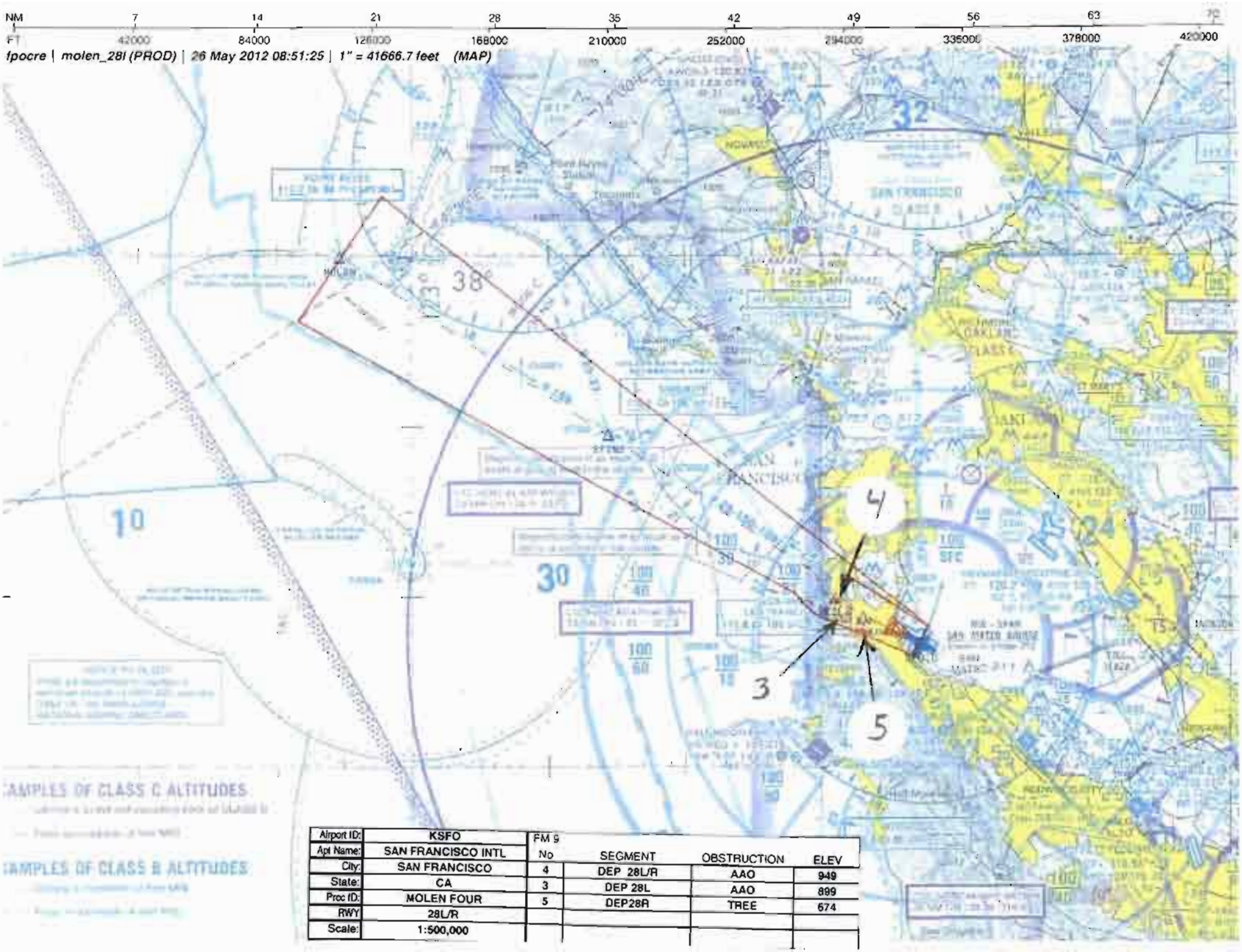
Rwy 19L: Fence beginning 55′ from DER, 462′ left of centerline, up to 6′ AGL/15′ MSL. Sign 4′ from DER, 168′ right of centerline, 5′ AGL/12′ MSL. Multiple poles beginning 754′ from DER, 47′ left of centerline, up to 20′ AGL/48′ MSL. Multiple poles and a sign beginning 873′ from DER, 337′ right of centerline, up to 20′ AGL/38′ MSL. Multiple buildings, transmission towers, poles, trees, sign, electrical system beginning 1078′ from DER, 12′ left of centerline, up to 100′ AGL/127′ MSL. Multiple buildings, transmission towers, poles, trees, sign, electrical system beginning 194′ from DER, 61′ right of centerline, up to 100′ AGL/ 128′ MSL. Multiple buildings, trees beginning 4027′ from DER, 152′ right of centerline up to 100′ AGL/167′ MSL.

Rwy 19R: Multiple poles, trees, electrical system beginning 898′ from DER, 82′ right of centerline, up to 40′ AGL/60′ MSL. Multiple transmission towers, trees beginning 1638′ from DER, 7 ft left of centerline, up to 80′ AGL/96′ MSL. Multiple transmission towers, trees, beginning 1851′ from DER, 16′ right of centerline, up to 80′ AGL/85′ MSL.

Rwy 28L: Sign 19′ from DER, 500′ right of centerline, 5′ AGL/9′ MSL. Obstruction lights on DME beginning 277′ from DER, 162′ left of centerline, up to 16′ AGL/26′ MSL. Obstruction light on Localizer beginning on centerline up to 10′ AGL/17′ MSL. Multiple poles, electrical system beginning 824′ from DER, 300′ left of centerline, up to 40′ AGL/56′ MSL. Multiple buildings, transmission towers, tank, pole and terrain beginning 1305′ from DER, 370′ left of centerline, up to 95′ AGL/103′ MSL.

Rwy 28R: Multiple signs, terrain beginning 23′ from DER, 140′ right of centerline, up to 5′ AGL/ 10′ MSL. Terrain beginning 58′ from DER, 146′ right of centerline, up to 10′ MSL. Sign 63′ from DER, 250′ left of centerline, 5′ AGL/8′ MSL. Terrain beginning 130′ from DER, 235′ left of centerline, up to 10′ MSL. Antenna on building, obstruction light on DME, tree, beginning 556′ from DER, 268′ right of centerline, up to 35′ AGL/43′ MSL. Multiple poles beginning 918′ from DER, 598′ left of centerline, up to 22′ AGL/35′ MSL. Multiple buildings, trees beginning 1467′ from DER, 683′ right of centerline, up to 60′ AGL/68′ MSL. Multiple buildings, transmission towers, trees, electrical system, terrain beginning 1826′ from DER, 123′ left of centerline, up to 95′ AGL/103′MSL.

Airport ID:	KSFO	FM 9			
Apt Name:	SAN FRANCISCO INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	SAN FRANCISCO	6	MOLEN TO ENI;C	AAO	3553
State:	CA				
Proc ID:	MOLEN FOUR				
RWY					
Scale:	1:500,000				

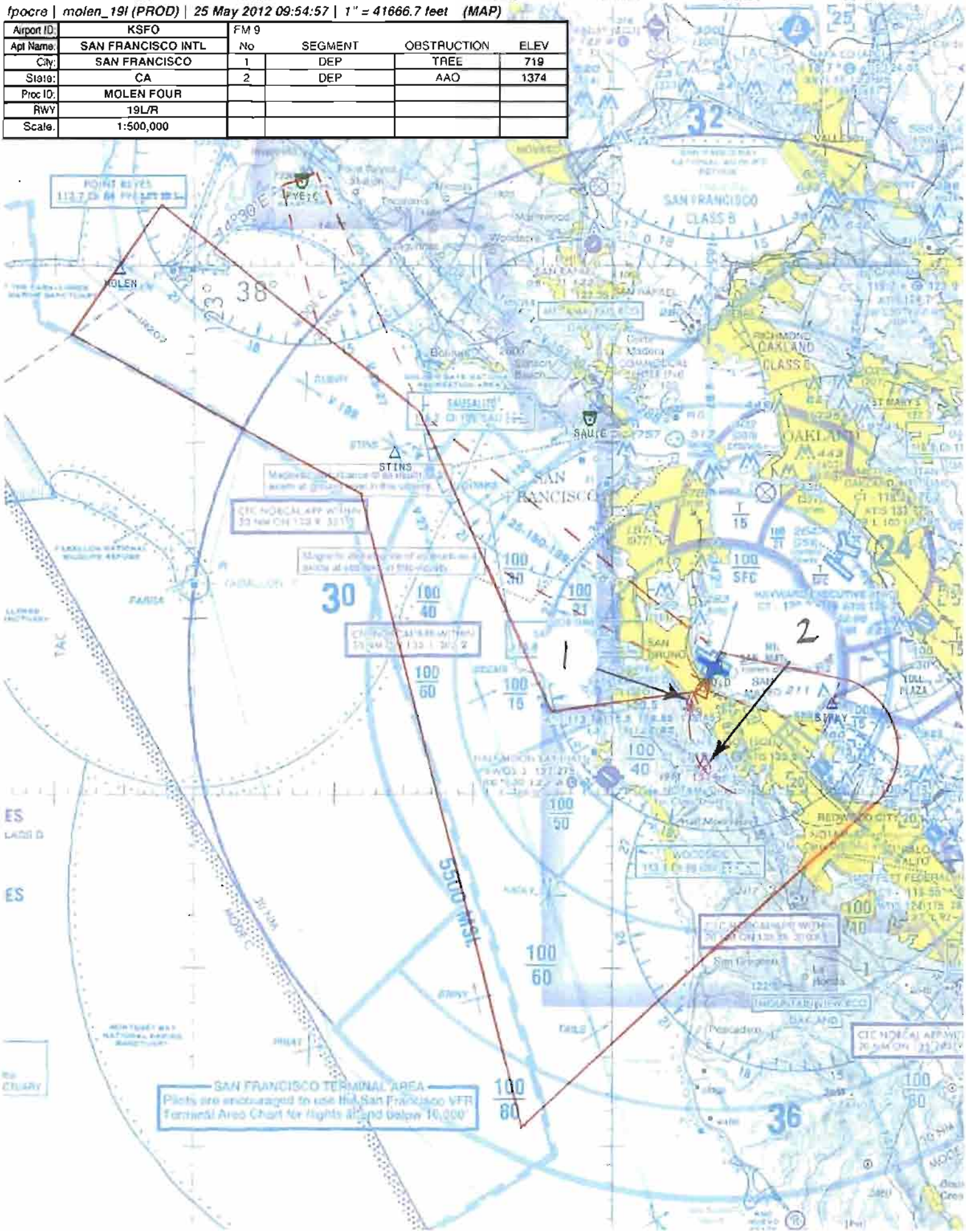


		FM 9			
Airport ID:	KSFO	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	SAN FRANCISCO INTL	4	DEP 28L/R	AAO	949
City:	SAN FRANCISCO	3	DEP 28L	AAO	899
State:	CA	5	DEP28R	TREE	674
Proc ID:	MOLEN FOUR				
RWY	28L/R				
Scale:	1:500,000				

NM	7	14	21	28	35	42	49
FT	42000	84000	126000	168000	210000	252000	294000

fpocre | molen_19l (PROD) | 25 May 2012 09:54:57 | 1" = 41666.7 feet (MAP)

		FM 9			
Airport ID:	KSFO				
Apt Name:	SAN FRANCISCO INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	SAN FRANCISCO	1	DEP	TREE	719
State:	CA	2	DEP	AAO	1374
Proc ID:	MOLEN FOUR				
RWY	19L/R				
Scale:	1:500,000				

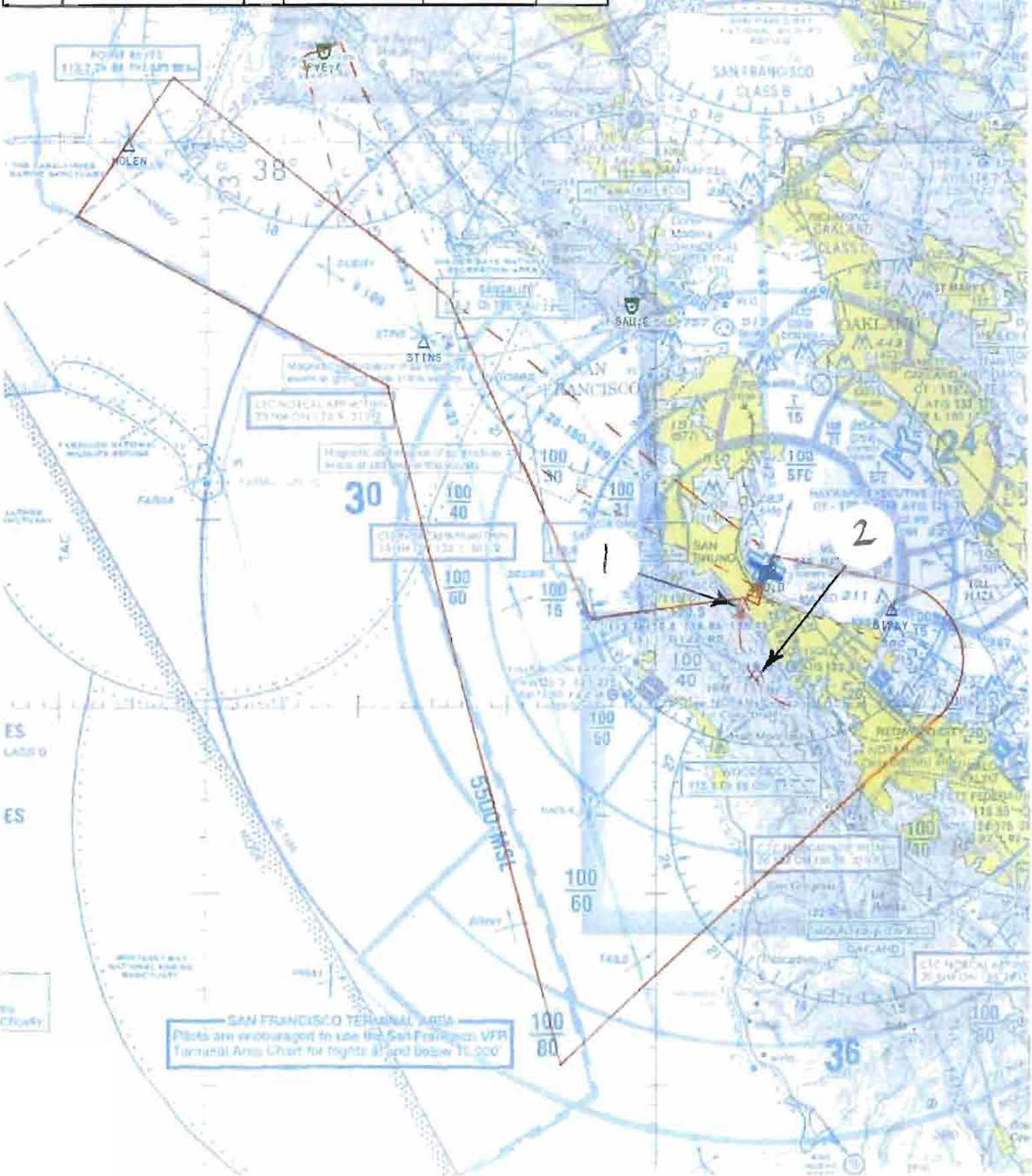


Airport ID	KSFO	FM 9			
Apt Name	SAN FRANCISCO INTL	No	SEGMENT	OBSTRUCTION	ELEV
City	SAN FRANCISCO		ALL SURFACES		
State	CA		CLEAR		
Proc ID	MOLEN FOUR				
RWY	10L/R				
Scale	1:500,000				

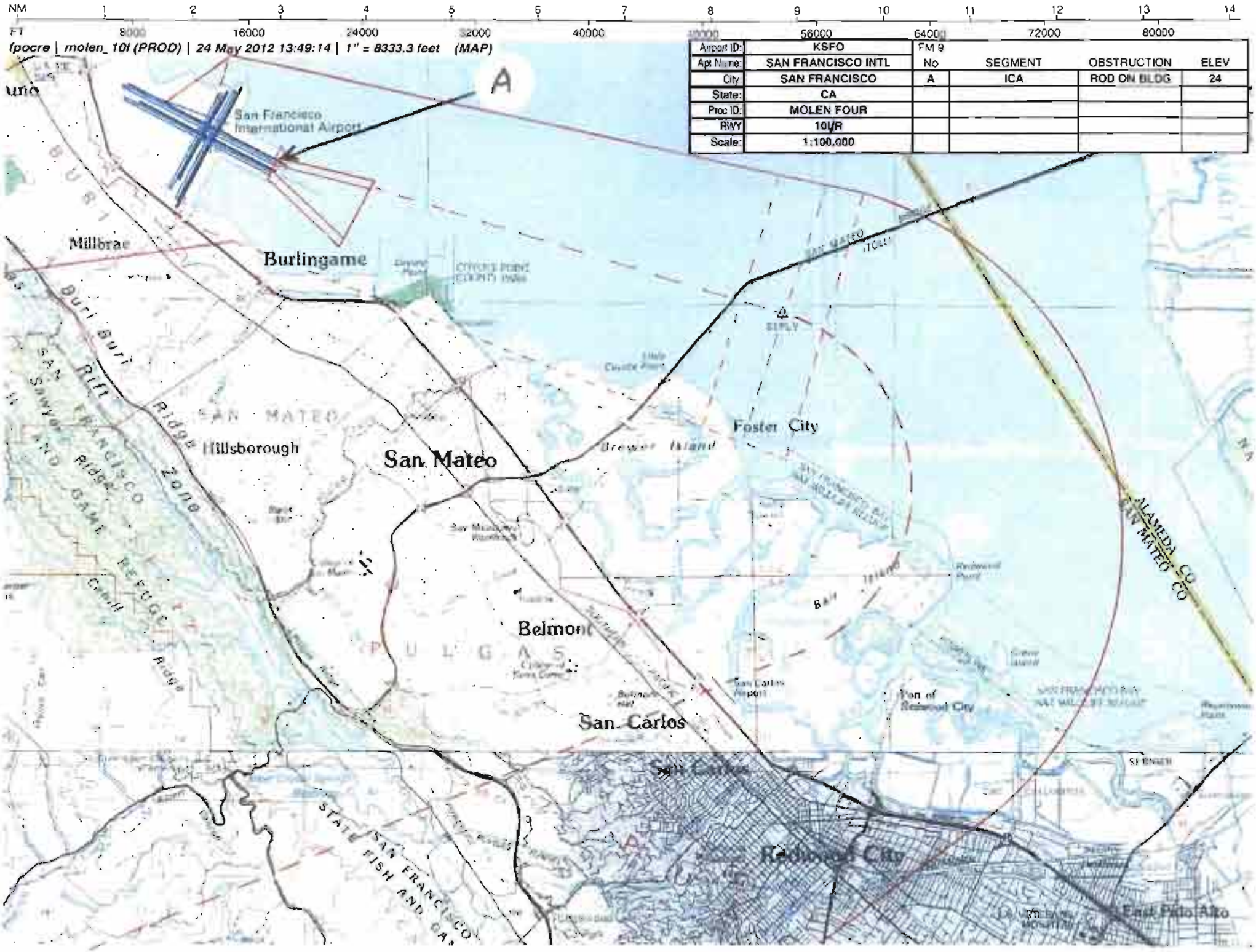
NM	7	14	21	28	35	42	49
FT	42000	84000	126000	168000	210000	252000	294000

fpocre | molen 19l (PROD) | 25 May 2012 09:54:57 | 1" = 41666.7 feet (MAP)

Airport ID:	KSFO	FM 9			
Apt Name:	SAN FRANCISCO INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	SAN FRANCISCO	1	DEP	TREE	719
State:	CA	2	DEP	AAO	1374
Proc ID:	MOLEN FOUR				
RWY	19L/R				
Scale:	1:500,000				



Airport ID	KSFO	FM 9			
Apt Name:	SAN FRANCISCO INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	SAN FRANCISCO		ALL SURFACES		
State:	CA		CLEAR		
Proc ID	MOLEN FOUR				
RWY	10L/R				
Scale:	1:500,000				

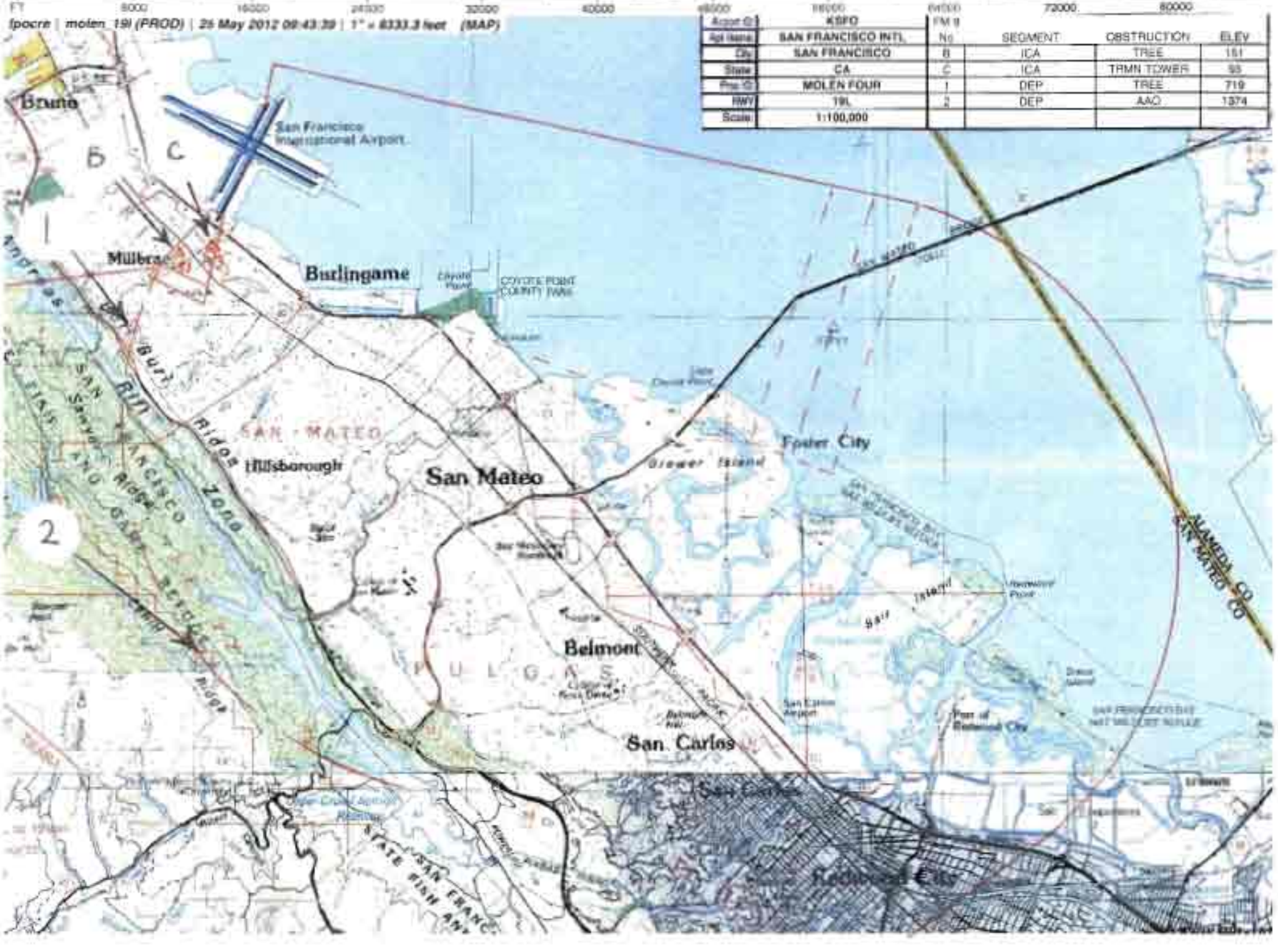


Airport ID:	KSFO	FM 9			
Apt Name:	SAN FRANCISCO INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	SAN FRANCISCO	A	ICA	ROD ON BLDG	24
State:	CA				
Proc ID:	MOLEN FOUR				
RWY	10L/R				
Scale:	1:100,000				

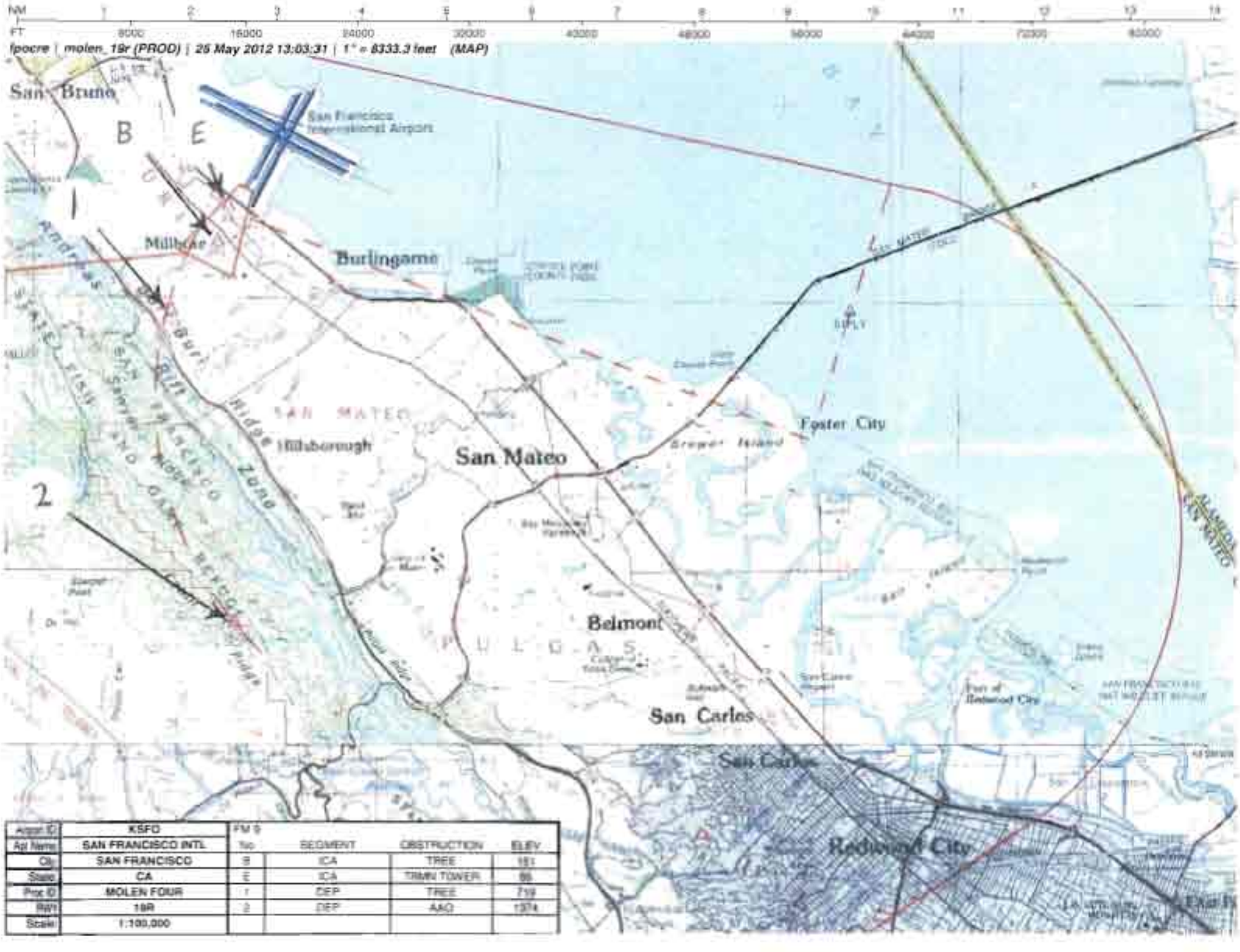
fpocre | molen_19l (PROD) | 25 May 2012 09:43:39 | 1" = 8333.3 feet (MAP)

Airport ID	KSFO
Apt name	SAN FRANCISCO INTL
City	SAN FRANCISCO
State	CA
Proc ID	MOLEN FOUR
RWY	19L
Scale	1:100,000

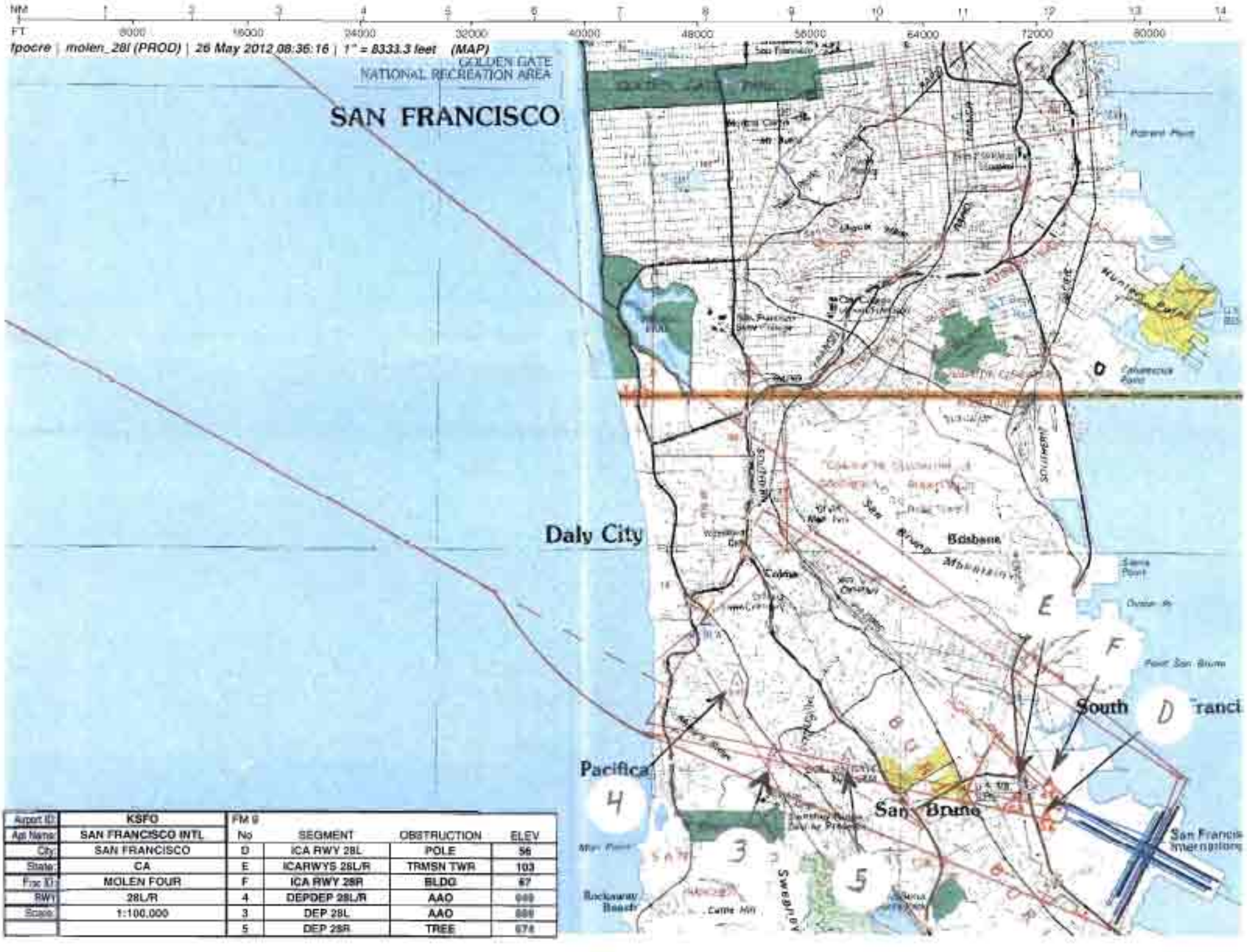
FM II No	SEGMENT	OBSTRUCTION	ELEV
B	ICA	TREE	151
C	ICA	TRMN TOWER	93
1	DEP	TREE	719
2	DEP	AAO	1374



fpocre | molen_19r (PROD) | 25 May 2012 13:03:31 | 1" = 8333.3 feet (MAP)



Airport ID	KSFO	FM 9			
Apt Name	SAN FRANCISCO INTL	No	SEGMENT	OBSTRUCTION	ELEV
City	SAN FRANCISCO	9	ICA	TREE	151
State	CA	E	ICA	TRMN TOWER	88
Proc ID	MOLEN FOUR	1	DEP	TREE	719
Rwy	19R	2	DEP	AAO	1374
Scale	1:100,000				



Airport ID:	KSFO	FM 9			
Apt Name:	SAN FRANCISCO INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	SAN FRANCISCO	D	ICA RWY 28L	POLE	56
State:	CA	E	ICARWYS 28L/R	TRMSN TWR	103
Frac ID:	MOLEN FOUR	F	ICA RWY 28R	BLDG	67
RWY:	28L/R	4	DEPDEP 28L/R	AAO	049
Scale:	1:100,000	3	DEP 28L	AAO	059
		5	DEP 28R	TREE	074

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
MOLEN	FOUR	MOLEN4.MOLEN	THREE	20MAY1999	

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10L/R: CLIMBING LEFT TURN TO INTERCEPT SFO R-090 TO CROSS SIPLY 7.00 DME FIX AT OR ABOVE 2500, THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 230 TO INTERCEPT AND PROCEED ON PYE R-144 TO CROSS STINS INT/SFO 21.95 DME AT 5000, THEN ON SFO VOR/DME R-287 TO MOLEN INT/SFO 40.78 DME. THENCE...
TAKEOFF RWY 19L/R: CLIMBING LEFT TURN HEADING 050 TO INTERCEPT SFO R-090 TO CROSS SIPLY 7.00 DME FIX AT OR ABOVE 2500, THEN CLIMBING RIGHT TURN TO 5000 HEADING 230 TO INTERCEPT AND PROCEED ON PYE R-144 TO CROSS STINS INT/SFO VOR/DME 21.95 DME AT 5000, THEN ON SFO VOR/DME R-287 TO MOLEN INT/SFO 40.78 DME. THENCE ...
TAKEOFF RWY 28L/R: CLIMB ON SFO VOR/DME R-281 TO CROSS WESLA INT/SFO VOR/DME 5.74 DME AT OR ABOVE 1800 THEN TURN RIGHT TO INTERCEPT SFO R-287 TO MOLEN INT/SFO 40.78 DME. THENCE...

.... ON (TRANSITION). EXPECT CLEARANCE TO FILED ALTITUDE TEN MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
MENDOCINO	MOLEN4.ENI	MOLEN INT/SFO 40.78 DME	ENI VORTAC	335.99 (ENI R-156)	63.87	6000		

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS:
RWY 10L/R STANDARD WITH MINIMUM CLIMB OF 360 FT PER NM TO 2500.
RWY 19L/R STANDARD WITH MINIMUM CLIMB OF 565 FT PER NM TO 2000.
RWY 28L/R STANDARD WITH MINIMUM CLIMB OF 390 FT PER NM TO 1800.
NOTE: RADAR REQUIRED.
NOTE: DME REQUIRED.
NOTE: RAPIDLY RISING TERRAIN TO 2000 FT IMMEDIATELY SOUTH OF AIRPORT.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 1L, SIGN, FENCE BEGINNING 169 FT FROM DER, 226 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/14 FT MSL. OBSTRUCTION LIGHT ON LEVEE AND FENCE BEGINNING 209 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 6 FT AGL/14 FT MSL.

NOTE: RWY 1R, FENCE 3 FT FROM DER, 329 FT LEFT OF CENTERLINE, 7 FT AGL/13 FT MSL. TERRAIN 62 FT FROM DER, 330 FT LEFT OF CENTERLINE, 12 FT MSL. TERRAIN 91 FT FROM DER, 515 FT RIGHT OF CENTERLINE, 14 FT MSL.

NOTE: RWY 10L, SIGN 62 FT FROM DER, 300 FT LEFT OF CENTERLINE, 4 FT AGL/15 FT MSL. BUILDING AND ROD ON BUILDING BEGINNING 257 FT FROM DER, 560 FT LEFT OF CENTERLINE, UP TO 12 FT AGL/24 FT MSL.

QUALITY CHECKED 3

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
MOLEN	FOUR	MOLEN4.MOLEN	THREE	20MAY1999	

NOTE: RWY 19L, FENCE BEGINNING 55 FT FROM DER, 462 FT LEFT OF CENTERLINE, UP TO 6 FT AGL/15 FT MSL. SIGN 4 FT FROM DER, 168 FT RIGHT OF CENTERLINE, 5 FT AGL/12 FT MSL. MULTIPLE POLES BEGINNING 754 FT FROM DER, 47 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/48 FT MSL. MULTIPLE POLES AND A SIGN BEGINNING 873 FT FROM DER, 337 FT RIGHT OF CENTERLINE, UP TO 20 FT AGL/38 FT MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS, POLES, TREES, SIGN, ELECTRICAL SYSTEM BEGINNING 1078 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/127 FT MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS, POLES, TREES, SIGN, ELECTRICAL SYSTEM BEGINNING 194 FT FROM DER, 61 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/128 FT MSL. MULTIPLE BUILDINGS, TREES BEGINNING 4027 FT FROM DER, 152 FT RIGHT OF CENTERLINE UP TO 100 FT AGL/167 FT MSL.

NOTE: RWY 19R, MULTIPLE POLES, TREES, ELECTRICAL SYSTEM BEGINNING 898 FT FROM DER, 82 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/60 FT MSL. MULTIPLE TRANSMISSION TOWERS, TREES BEGINNING 1638 FT FROM DER, 7 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/96 FT MSL. MULTIPLE TRANSMISSION TOWERS, TREES BEGINNING 1851 FT FROM DER, 16 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/85 FT MSL.

NOTE: RWY 28L, SIGN 19 FT FROM DER, 500 FT RIGHT OF CENTERLINE, 5 FT AGL/9 FT MSL. OBSTRUCTION LIGHTS ON DME BEGINNING 277 FT FROM DER, 162 FT LEFT OF CENTERLINE, UP TO 16 FT AGL, 26 FT MSL. OBSTRUCTION LIGHT ON LOCALIZER BEGINNING ON CENTERLINE UP TO 10 FT AGL/17 FT MSL. MULTIPLE POLES, ELECTRICAL SYSTEM BEGINNING 824 FT FROM DER, 300 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/56 FT MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS, TANK AND POLE BEGINNING 1305 FT FROM DER, 370 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/103 FT MSL.

NOTE: RWY 28R, MULTIPLE SIGNS, BEGINNING 23 FT FROM DER, 140 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL/10 FT MSL. TERRAIN BEGINNING 58 FT FROM DER, 146 FT RIGHT OF CENTERLINE, UP TO 10 FT MSL. SIGN, 63 FT FROM DER, 250 FT LEFT OF CENTERLINE 5 FT AGL/8 FT MSL. TERRAIN BEGINNING 130 FT FROM DER, 235 FT LEFT OF CENTERLINE, UP TP 10 FT MSL. ANTENNA ON BUILDING, OBSTRUCTION LIGHT ON DME, TREE, BEGINNING 556 FT FROM DER, 268 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/43 FT MSL. MULTIPLE POLES BEGINNING 918 FT FROM DER, 598 FT LEFT OF CENTERLINE, UP TO 22 FT AGL/35 FT MSL. MULTIPLE BUILDINGS, TREES BEGINNING 1467 FT FROM DER, 683 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/68 FT MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS, TREES AND ELECTRICAL SYSTEM BEGINNING 1826 FT FROM DER, 123 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/103 FT MSL.

CONTROLLING OBSTACLES:

RWY 19L: 719 FT MSL TREE 373502.00N/1222400.00W, 1374 FT MSL AAO 373121.54N/1222305.21W.
RWY 19R: 719 FT MSL TREE 373502.00N/1222400.00W, 1374 FT MSL AAO 373121.54N/1222305.21W.
RWY 28L: 899 FT MSL TREE 373815.50N/1222748.11W, 949 FT MSL AAO 373906.44N/1222821.43W.
RWY 28R: 674 FT MSL TREE 373813.00N/1222644.00W, 949 FT MSL AAO 373906.44N/1222821.43W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART SAU R-243 & R-153. CHART PYE R-228

AIRPORTS SERVED:

SAN FRANCISCO INTL — SAN FRANCISCO CA.

QUALITY CHECKED

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
MOLEN	FOUR	MOLEN4.MOLEN	THREE	20MAY1999	

COMMUNICATIONS:

ATIS, GND CON, SFO TWR, NORCAL DEP CON

FIXES AND/OR NAVAIDS:

SAU VORTAC

REMARKS:

RWY 10L/R AND RWY 28L/R CLIMB GRADIENTS DRIVEN BY MANDATORY CROSSING RESTRICTION OVER SIPLY AND WESLA DME FIXES. 390 CG OFF RWYS 28L/R RETAINED FROM MOLEN THREE, CG COULD BE REDUCED TO 380' PER NM.

QUALITY CHECK 3

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
MOLEN	FOUR	MOLEN4.MOLEN	THREE	20MAY1999	

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:
ROUTINE

DEVELOPED BY:
CHARLES ERICKSON AJV-354

APPROVED BY:
DEZ SILAGYI AJV-354

COORDINATED WITH:
ATA, ALPA, AOPA, NBAA, AMGR, JOSHUA APP CON, ZLA

CHANGES:

1. REMOVED THE "OR (ASSIGNED ROUTE) ON DEPARTURE ROUTE DESCRIPTION
2. **TAKEOFF RWY 10L/R:** CLIMBING LEFT TURN TO INTERCEPT SFO R-090 TO CROSS SIPLY 7.00 DME FIX AT OR ABOVE 2500, THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 230 TO INTERCEPT AND PROCEED ON PYE R-144 TO CROSS STINS INT/SFO 21.95 DME AT 5000, THEN ON SFO VOR/DME R-287 TO MOLEN INT/SFO 40.78 DME. THENCE...
   TAKEOFF RWY 19L/R: CLIMBING LEFT TURN HEADING 050 TO INTERCEPT SFO R-090 TO CROSS SIPLY 7.00 DME FIX AT OR ABOVE 2500, THEN CLIMBING RIGHT TURN TO 5000 HEADING 230 TO INTERCEPT AND PROCEED ON PYE R-144 TO CROSS STINS INT/SFO VOR/DME 21.95 DME AT 5000, THEN ON SFO VOR/DME R-287 TO MOLEN INT/SFO 40.78 DME. THENCE ...
   TAKEOFF RWY 28L/R: CLIMB ON SFO VOR/DME R-281 TO CROSS WESLA INT/SFO VOR/DME 5.74 DME AT OR ABOVE 1800 THEN TURN RIGHT TO INTERCEPT SFO R-287 TO MOLEN INT/SFO 40.78 DME. THENCE...
   .... ON (TRANSITION). EXPECT CLEARANCE TO FILED ALTITUDE TEN MINUTES AFTER DEPARTURE.
3. REMOVED NOTE: SAN BRUNO WEATHER AVAILABLE ON 118.05.
4. SIPLY AMENDED FROM CNF TO DME FIX.
5. REMOVED CEILING AND VISIBILITY OPTION FOR RWY 19L/R & 28L/R.
6. REMOVED AIRCRAFT CATEGORY CLIMB GRADIENTS AND INCREASED CG FOR RWY 19L/R TO 565 FT PER NM TO 2000.
7. ADDED 360 FT PER NM CG TO 2500 FOR DEPARTURES OFF OF RWY 10L/R.

REASONS:

1. NO OTHER ROUTES SPECIFIED ON THE PROCEDURE OTHER THAN THE TRANSITIONS. IF ANOTHER ROUTE ASSIGNED AIRCRAFT ARE NO LONGER ON THIS DEPARTURE PROCEDURE.
2. UPDATES VERBIAGE AND FOR RWYS 10L/R AND 19L/R PROVIDED ROUTE ALL THE WAY OUT TO MOLEN TO START TRANSITION. DID NOT CAUSE ANY CHANGES TO THE ROUTE DEPICTED ON GRAPHIC.
3. PER ATC REQUEST.
4. REQUIRED BY CRITERIA.
5. OBSTACLES REQUIRING CG BEYOND 3 SM.
6. CATEGORY OF AIRCRAFT DEPARTURE MINIMA NO LONGER USED, 565 CG TO 2000 RESULTS FROM APPLYING VEGETATION AND AAO TO TERRAIN, ODP DEPARTS ON SAME INITIAL ROUTE AND ALSO HAS 565 FT PER NM CG TO 2000.
7. TO MEET 2500 CROSSING RESTRICTION OVER SIPLY.

QUALITY 3 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
MOLEN	FOUR	MOLEN4.MOLEN	THREE	20MAY1999	

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ENI   K2011230VTHA N39031158W123162758    N39031158W123162758E0160028852     NARMENDOCINO
        SUSAD        PYE   K2011370VTHA N38044712W122520418    N38044712W122520418E0170013402     NARPOINT REYES
        SUSAD        SFO   K2011580VDLA N37371014W122222602    N37371014W122222602E0170000071     NARSAN FRANCISCO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   MOLEN K20    R   L N37595234W123051247                      E0142     NAR           MOLEN
        SUSAEAENRT   SIPLY K20    R     N37350720W122140060                      E0140     NAR           SIPLY
        SUSAEAENRT   STINS K20    C   L N37492524W122452406                      E0141     NAR           STINS
        SUSAEAENRT   WESLA K20    R     N37395174W122284905                      E0141     NAR           WESLA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSFOK2ASFO     0     118YHN37370830W122222960E017000013         1800018000C    MNAR    SAN FRANCISCO INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSFOK2DMOLEN41RW10B 010SIPLYK2EA0E       CF SFO K2      0900007009000070D   + 02500     18000
        SUSAP KSFOK2DMOLEN41RW10B 020         0    R   VIY                     2300
        SUSAP KSFOK2DMOLEN41RW10B 030STINSK2EA0E   R   CFYPYE K2      1440016232400250D     05000
        SUSAP KSFOK2DMOLEN41RW10B 040MOLENK2EA0EE      TF                      2870
        SUSAP KSFOK2DMOLEN41RW19B 010         0        CA                      1908        + 00413     18000
        SUSAP KSFOK2DMOLEN41RW19B 020         0    L   VIY                     0500
        SUSAP KSFOK2DMOLEN41RW19B 030SIPLYK2EA0E       CF SFO K2      0900007009000030D   + 02500
        SUSAP KSFOK2DMOLEN41RW19B 040         0    R   VIY                     2300
        SUSAP KSFOK2DMOLEN41RW19B 050STINSK2EA0E   R   CFYPYE K2      1440016232400250D     05000
        SUSAP KSFOK2DMOLEN41RW19B 060MOLENK2EA0EE      TF                      2870
        SUSAP KSFOK2DMOLEN41RW28B 010WESLAK2EA0E       CF SFO K2      2810005728100060D   + 01800     18000
        SUSAP KSFOK2DMOLEN41RW28B 020MOLENK2EA0EE      CF SFO K2      2870040828700350D
        SUSAP KSFOK2DMOLEN43ENI   010MOLENK2EA0E       IF                                                 18000
        SUSAP KSFOK2DMOLEN43ENI   020ENI  K2D 0VE      TF                      33600639

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSFOK2GRW10L   0118701008 N37374346W122233621+0100    -0030900006000055200R
        SUSAP KSFOK2GRW10R   0113811008 N37373464W122233518+0000    -0030400007000060200R
        SUSAP KSFOK2GRW19L   0086461908 N37374018W122220044+0000    -0029600010000060200IISIA1
```

QUALITY CHECKED 4

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
MOLEN	FOUR	MOLEN4.MOLEN	THREE	20MAY1999	

```
SUSAP KSFOK2GRW19R   0075001908 N37373795W122221245+0000    -0030000009000047200R
SUSAP KSFOK2GRW28L   0113812808 N37364216W122213006+0000    -0028700013000057200IISFO1
SUSAP KSFOK2GRW28R   0118702808 N37364872W122212571-0100    -0028700013000055200IIGWQ3    IFNPL
```

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
MOLEN	FOUR	MOLEN4.MOLEN	THREE	20MAY1999	

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW10B	SIPLY	010		CF		FB		090.0()	007.0	AA 02500	
	RW10B		020		VI	R	FB		230.0()			
	RW10B	STINS	030		CF	R	FB		324.0()	025.0	AT 05000	
	RW10B	MOLEN	040		TF		FB		287.0()			
	RW19B		010		CA		FB		190.8()		AA 00413	
	RW19B		020		VI	L	FB		050.0()			
	RW19B	SIPLY	030		CF		FB		090.0()	003.0	AA 02500	
	RW19B		040		VI	R	FB		230.0()			
	RW19B	STINS	050		CF	R	FB		324.0()	025.0	AT 05000	
	RW19B	MOLEN	060		TF		FB		287.0()			
	RW28B	WESLA	010		CF		FB		281.0()	006.0	AA 01800	
	RW28B	MOLEN	020		CF		FB		287.0()	035.0		
	ENI	MOLEN	010		IF		FB					
	ENI	ENI	020		TF		FB		336.0()	063.9		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
ENI	N390311.58	W1231627.58	N3903.193	W12316.460
PYE	N380447.12	W1225204.18	N3804.785	W12252.070
SFO	N373710.14	W1222226.02	N3737.169	W12222.434
MOLEN	N375952.34	W1230512.47	N3759.872	W12305.208
SIPLY	N373507.20	W1221400.60	N3735.120	W12214.010
STINS	N374925.24	W1224524.06	N3749.421	W12245.401
WESLA	N373951.74	W1222849.05	N3739.862	W12228.818
RW10L	N373743.46	W1222336.21	N3737.724	W12223.604
RW10R	N373734.64	W1222335.18	N3737.577	W12223.586
RW19L	N373740.18	W1222200.44	N3737.670	W12222.007
RW19R	N373737.95	W1222212.45	N3737.633	W12222.208
RW28L	N373642.16	W1222130.06	N3736.703	W12221.501
RW28R	N373648.72	W1222125.71	N3736.812	W12221.429

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW10L	00006	55
RW10R	00007	60
RW19L	00010	60
RW19R	00009	47
RW28L	00013	57
RW28R	00013	55

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: MOLEN **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 375952.34N/1230512.47W **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	SFO	VOR/DME	L	287.00	304.00	40.78	40.78		6000	17500
2	MENDOCINO	ENI	VORTAC	H	155.99	171.99	63.87	63.87		6000	17500
3	POINT REYES	PYE	VORTAC	H	227.76	244.76		11.48		6000	17500

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

REMARKS:
SAN FRANCISCO (FAC 1) AND POINT REYES (FAC 3) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOLEN	1, 2, 3		KSFO	SAN FRANCISCO	CA (US)
EN ROUTE	V199	1, 2, 3				CA (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
CHANGED FAC2 MAG/TRUE FROM 156.00/172.00 TO 155.99/171.99

DEVELOPED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

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

SIGNATURE:

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

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SIPLY **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 373507.20N/1221400.60W **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	SFO	VOR/DME	L	090.00	107.00	7.00	7.00		2500	14500

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		KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
CHANGED FROM CNF TO DME FIX

DEVELOPED BY: **DATE:** 05/23/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY:
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: STINS **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 374925.24N/1224524.06W **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	POINT REYES	PYE	VORTAC	H	144.00	161.00	16.23	16.23		3500	17500
2	SAUSALITO	SAU	VORTAC	L	243.39	260.39		11.28		3500	17500
3	SAN FRANCISCO	SFO	VOR/DME	L	287.00	304.00	21.95	21.95		3500	17500

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

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	NW	PYE	VORTAC	144.00	144.00	R	1-1 1/2		3500	17500	5	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	375736.00N/1224521.00W	1401	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
SAUSALITO (FAC 2) AND POINT REYES (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOLEN	1, 2, 3		KSFO	SAN FRANCISCO	CA (US)
EN ROUTE	V199	1, 2, 3				(US)
EN ROUTE	V25	1, 2, 3				(US)
EN ROUTE	V27	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 10L			KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (GPS) Y RWY 10R			KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (RNP) Z RWY 10R			KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES	1, 2, 3	1	KSFO	SAN FRANCISCO	CA (US)
STAR	STINS	1, 2	1	KSFO	SAN FRANCISCO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FAC3 IN HISTORY, AMENDMENT REQUIRED TO PUT IN ACTIVE STATUS.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/14/2012 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WESLA **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 373951.74N/1222849.05W **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	SFO	VOR/DME	L	280.98	297.98	5.74	5.74	34877	1800	17500
2	SAUSALITO	SAU	VORTAC	L	152.98	169.98		11.62		1900	17500

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

REMARKS:
SAN FRANCISCO (FAC 1) AND SAUSALITO (FAC 2) 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)
IAP	VOR-B	1, 2		KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: DP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
CHANGED FAC1 & FAC2 MRA FROM 1900 TO 1800
ADDED MOLEN DEP TO FIX USE

DEVELOPED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

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

SIGNATURE:

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

QUALITY 1 CHECKED

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MENDOCINO VORTAC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 390311.58N/1231627.58W **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	MENDOCINO	ENI	VORTAC	H							45000

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

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	S	ENI	VORTAC	202.14	022.14	R	1		6000	14000	5	10
2	N	ENI	VORTAC	343.21	163.21	R	1 1/2		15000	45000	15	29
3	NW	ENI	VORTAC	333.00	153.00	R	1-1 1/2		11000	17500	9	16
4	S		WP	202.00	022.00	R		5	6000	14000	6	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	385706.00N/1231324.00W	3418	4E
2	265	SPOT+AAO	390814.00N/1231838.10W	3611	6C
3	230	SPOT+AAO	390814.00N/1231838.10W	3611	6C
4	230	SPOT+AAO	385651.60N/1231249.00W	3553	6C

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	206
2	265	197
3	230	193
4	230	205

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR-A	KUKI	UKIAH	CA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAKEPORT (RNAV)			K1O2	LAKEPORT	CA (US)
DP	TAKE-OFF MINIMUMS			K1O2	LAKEPORT	CA (US)
DP	LITTLE RIVER (RNAV) (OBSTACLE)			KLLR	LITTLE RIVER	CA (US)
DP	MERLOT			KAPC	NAPA	CA (US)
DP	OAKLAND DEPARTURE			KOAK	OAKLAND	CA (US)
DP	SILENT DEPARTURE			KOAK	OAKLAND	CA (US)
DP	GAP DEPARTURE			KSFO	SAN FRANCISCO	CA (US)
DP	MOLEN DEPARTURE			KSFO	SAN FRANCISCO	CA (US)
DP	QUIET DEPARTURE			KSFO	SAN FRANCISCO	CA (US)
DP	REBAS DEPARTURE			KSFO	SAN FRANCISCO	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
DP	FREES DEPARTURE			KSTS	SANTA ROSA	CA (US)
DP	TAKE-OFF MINIMUMS			KUKI	UKIAH	CA (US)
DP	MENDOCINO (RNAV) (OBSTACLE)			KO28	WILLITS	CA (US)
EN ROUTE	J143					(US)
EN ROUTE	V199					(US)
EN ROUTE	V200					(US)
EN ROUTE	V27					(US)
EN ROUTE	V494					(US)
EN ROUTE	V607					(US)
IAP	RNAV (GPS) -A			K1O2	LAKEPORT	CA (US)
IAP	RNAV (GPS) RWY 29			KLLR	LITTLE RIVER	CA (US)
IAP	ILS OR LOC RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	LOC RWY 15			KUKI	UKIAH	CA (US)
IAP	VOR-A		1	KUKI	UKIAH	CA (US)
IAP	RNAV (GPS) RWY 16		4	KO28	WILLITS	CA (US)
IAP	RNAV (GPS) RWY 34		4	KO28	WILLITS	CA (US)
STAR	TRAVIS AFB - SEATO ARRIVAL		1	KSUU	FAIRFIELD	CA (US)
STAR	GOLDEN GATE ARRIVAL		2	KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES ARRIVAL			KSFO	SAN FRANCISCO	CA (US)
STAR	STINS ARRIVAL		2	KSFO	SAN FRANCISCO	CA (US)
STAR	BRINY ARRIVAL			KSJC	SAN JOSE	CA (US)

QUALITY 3 CHECKED

STAR	GOLDEN GATE	2	KSJC	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED FIX COORDINATES TO REFLECT AVNIS
UPDATED FIX MAKEUP FACILITY FROM HISTORY TO ACTIVE
UPDATED HOLDING PAT 2, 3 AND 4 OBSTACLE BY REMOVING SPOT FROM OBSTACLE DESCRIPTION
FIX NEW COORDINATES MOVED FACILITY 35.85FT WEST

DEVELOPED BY:	**DATE:** 04/16/2012	**OFFICE:** AJV-354	**NAME:** BRYAN BLUE
APPROVED BY:	**DATE:** 05/23/2012	**OFFICE:** AJV-354	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZOA, ZSE
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: POINT REYES VORTAC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 380447.12N/1225204.18W **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	POINT REYES	PYE	VORTAC	H							45000
2	OAKLAND	OAK	VORTAC	H	287.93	304.93	37.22	37.22		5000	17500
3	SANTA ROSA	STS	VOR/DME	L	170.04	186.04	25.82	25.82		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	NW	PYE	VORTAC	324.98	144.98	R	1-1 1/2	-	7000	45000	8	29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	380224.00N/1224924.00W	1670	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
FAC 2&3 ARE BACKUP FACILITIES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GONGS			KCIC	CHICO	CA (US)
DP	BUCHANAN			KCCR	CONCORD	CA (US)
DP	KANAN			KCCR	CONCORD	CA (US)
DP	LIZRD			KAPC	NAPA	CA (US)
DP	MERLOT			KAPC	NAPA	CA (US)
DP	COAST			KOAK	OAKLAND	CA (US)
DP	NIMITZ			KOAK	OAKLAND	CA (US)
DP	NUEVO			KOAK	OAKLAND	CA (US)
DP	OAKLAND			KOAK	OAKLAND	CA (US)
DP	SKYLINE			KOAK	OAKLAND	CA (US)
DP	EUGEN			KSFO	SAN FRANCISCO	CA (US)
DP	MOLEN			KSFO	SAN FRANCISCO	CA (US)
DP	OFFSHORE			KSFO	SAN FRANCISCO	CA (US)
DP	PORTE			KSFO	SAN FRANCISCO	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
DP	FREES			KSTS	SANTA ROSA	CA (US)
EN ROUTE	J143					(US)
EN ROUTE	J501					(US)
EN ROUTE	J88					(US)
EN ROUTE	Q1					(US)
EN ROUTE	Q3					(US)
EN ROUTE	T257					(US)
EN ROUTE	V107					(US)
EN ROUTE	V25					(US)
EN ROUTE	V27					(US)
EN ROUTE	V301					(US)
IAP	LOC RWY 36L			KAPC	NAPA	CA (US)
IAP	RNAV (GPS) RWY 6			KAPC	NAPA	CA (US)
IAP	VOR RWY 6			KAPC	NAPA	CA (US)
IAP	ILS OR LOC RWY 11			KOAK	OAKLAND	CA (US)
IAP	GPS RWY 29			KO69	PETALUMA	CA (US)
IAP	VOR RWY 29			KO69	PETALUMA	CA (US)
IAP	ILS OR LOC RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	RNAV (GPS) RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	VOR RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	VOR/DME RWY 14			KSTS	SANTA ROSA	CA (US)
STAR	LEENA			KLAX	LOS ANGELES	CA (US)
STAR	HADLY			KOAK	OAKLAND	CA (US)
STAR	GOLDEN GATE		1	KSFO	SAN FRANCISCO	CA (US)
STAR	HADLY			KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES			KSFO	SAN FRANCISCO	CA (US)
STAR	STINS		1	KSFO	SAN FRANCISCO	CA (US)
STAR	BRINY		1	KSJC	SAN JOSE	CA (US)
STAR	GOLDEN GATE		1	KSJC	SAN JOSE	CA (US)

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

QUALITY 3 CHECKED

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
UPDATED PAT1 CRS INBOUND FROM 144.73M TO 144.98M.
UPDATED PAT1 MIN ALT FROM 11000 TO 7000, AND MIN PAT FROM 9 TO 8.
UPDATED FIX USE.
ADDED REMARK FAC 2&3 ARE BACKUP FACILITIES.

DEVELOPED BY:	**DATE:** 08/23/2010	**OFFICE:** AVN-130	**NAME:** ADOLFO URRUTIA (AMANDA ROBBINS)
APPROVED BY:	**DATE:** 04/07/2011	**OFFICE:** AVN-130	**NAME:** DEZ SILAGYI
	SIGNATURE:		

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

QUALITY 3 CHECKED

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 373710.14N/1222226.01W **TYPE:**

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	DIST FROM FAC FEET	MRA	MAA
1	SAN FRANCISCO	SFO	VOR/DME	L							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	W	SFO	VOR/DME	287.00	107.00	R	1-1 1/2		4000	14500	4	16
2	W		WP	289.00	109.00	R		5	4000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	200' AAO	373435.00N/1222630.00W	1620	5A
2	200	200' AAO	373435.00N/1222630.00W	1620	5A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.
HOLDING PATTERN 1 AND 2 USED BY ATC, DO NOT CHART.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SCAGGS ISLAND			KOAK	OAKLAND	CA (US)
DP	SILENT SEVEN			KOAK	OAKLAND	CA (US)
DP	DUMBARTON			KSFO	SAN FRANCISCO	CA (US)
DP	EUGEN			KSFO	SAN FRANCISCO	CA (US)
DP	LUVVE			KSFO	SAN FRANCISCO	CA (US)
DP	MOLEN			KSFO	SAN FRANCISCO	CA (US)
DP	OFFSHORE			KSFO	SAN FRANCISCO	CA (US)
DP	PORTE			KSFO	SAN FRANCISCO	CA (US)
DP	QUIET			KSFO	SAN FRANCISCO	CA (US)
DP	REBAS (PROP)			KSFO	SAN FRANCISCO	CA (US)
DP	SAN FRANCISCO			KSFO	SAN FRANCISCO	CA (US)
DP	SHORELINE			KSFO	SAN FRANCISCO	CA (US)
DP	TAKE OFF MINS			KSFO	SAN FRANCISCO	CA (US)
EN ROUTE	V150					(US)
EN ROUTE	V199					(US)
EN ROUTE	V25					(US)
EN ROUTE	V87					(US)
IAP	VOR OR GPS-A			KHWD	HAYWARD	CA (US)
IAP	VOR/DME GPS-B			KHWD	HAYWARD	CA (US)
IAP	ILS OR LOC RWY 11			KOAK	OAKLAND	CA (US)
IAP	VOR RWY 09R			KOAK	OAKLAND	CA (US)
IAP	GAP			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 19L			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 PRM RWY 28L			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT III)			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CATII)			KSFO	SAN FRANCISCO	CA (US)
IAP	LDA PRM RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	LDA/DME RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	QUIET BRIDGE VISUAL RWYS 28L/R			KSFO	SAN FRANCISCO	CA (US)
IAP	TIPP TOE VISUAL RWY 28L			KSFO	SAN FRANCISCO	CA (US)
IAP	VOR RWY 19L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	VOR-B	1		KSFO	SAN FRANCISCO	CA (US)
IAP	RNAV (RNP) Z RWY 30L			KSJC	SAN JOSE	CA (US)
IAP	RNAV (RNP) Z RWY 30R			KSJC	SAN JOSE	CA (US)
STAR	COMMO			KOAK	OAKLAND	CA (US)
STAR	MANTECA			KOAK	OAKLAND	CA (US)
STAR	GOLDEN GATE			KSFO	SAN FRANCISCO	CA (US)
STAR	HADLY			KSFO	SAN FRANCISCO	CA (US)
STAR	LOCKE			KSFO	SAN FRANCISCO	CA (US)
STAR	MODESTO			KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES			KSFO	SAN FRANCISCO	CA (US)
STAR	RISTI			KSFO	SAN FRANCISCO	CA (US)
STAR	STINS			KSFO	SAN FRANCISCO	CA (US)

QUALITY 3 CHECKED

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
CHANGE PAT 2 AIRSPEED TO 200 AND CHANGE LEG LENGTH TO 5 DME.
UPDATE TEMPLATES TO MIN 5 AND MAX 6.
UPDATE FIX USE.
REMOVE 175K ICON AND CLIMB-IN-HOLD EVALUATION FROM HOLDING RESTRICTIONS.

DEVELOPED BY:	**DATE:** 04/14/2010	**OFFICE:** AVN-130	**NAME:** PATRICK MULQUEEN
APPROVED BY:	**DATE:** 08/09/2010	**OFFICE:** AVN-130	**NAME:** DEZ SILAGYI
	SIGNATURE:		

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

QUALITY 3 CHECKED

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: SAUSALITO VORTAC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 375119.24N/1223121.91W **TYPE:**

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	DIST FROM FAC FEET	MRA	MAA
1	SAUSALITO	SAU	VORTAC	L							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	NE	SAU	VORTAC	035.21	215.21	R	1-1 1/2		3300	17500	4	16
2	NE		WP	035.21	215.21	R		4	4000	17500	5	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	375545.00N/1223436.00W	2760	4E
2	200	AAO	375545.00N/1223445.00W	2760	4E
2	310	AAO	375530.60N/1223602.10W	2800	6A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 29	KOAK	OAKLAND	CA (US)
1	ILS RWY 29 (CAT II)	KOAK	OAKLAND	CA (US)
1	ILS RWY 29 (CAT III)	KOAK	OAKLAND	CA (US)
2	RNAV (GPS) RWY 27L	KOAK	OAKLAND	CA (US)

REMARKS:
PAT 1 CONTROLLING OBSTACLE LOCATED 1,250 INTO SECONDARY AREA.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUCHANAN	1		KCCR	CONCORD	CA (US)
DP	KANAN	1		KCCR	CONCORD	CA (US)
DP	LIZRD	1		KAPC	NAPA	CA (US)
DP	NIMITZ	1	1	KOAK	OAKLAND	CA (US)
DP	NUEVO	1		KOAK	OAKLAND	CA (US)
DP	OAKLAND	1		KOAK	OAKLAND	CA (US)
DP	SCAGGS ISLAND	1		KOAK	OAKLAND	CA (US)
DP	SILENT	1		KOAK	OAKLAND	CA (US)
DP	EUGEN	1		KSFO	SAN FRANCISCO	CA (US)
DP	GAP	1		KSFO	SAN FRANCISCO	CA (US)
DP	MOLEN	1		KSFO	SAN FRANCISCO	CA (US)
DP	QUIET	1		KSFO	SAN FRANCISCO	CA (US)
DP	REBAS (PROP)	1		KSFO	SAN FRANCISCO	CA (US)
DP	SAN FRANCISCO	1		KSFO	SAN FRANCISCO	CA (US)
EN ROUTE	V150	1				(US)
IAP	ILS OR LOC RWY 36L	1		KAPC	NAPA	CA (US)
IAP	RNAV (GPS) RWY 6			KAPC	NAPA	CA (US)
IAP	RNAV (GPS) Y RWY 36L			KAPC	NAPA	CA (US)
IAP	RNAV (GPS) Z RWY 36L			KAPC	NAPA	CA (US)
IAP	VOR RWY 6	1		KAPC	NAPA	CA (US)
IAP	ILS OR LOC RWY 11	1		KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC RWY 29	1	1	KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC/DME RWY 27R	1	1	KOAK	OAKLAND	CA (US)
IAP	ILS RWY 29 (CAT II)	1	1	KOAK	OAKLAND	CA (US)
IAP	ILS RWY 29 (CAT III)	1	1	KOAK	OAKLAND	CA (US)
IAP	RNAV (GPS) RWY 27L		2	KOAK	OAKLAND	CA (US)
IAP	RNAV (GPS) RWY 29		2	KOAK	OAKLAND	CA (US)
IAP	RNAV (RNP) Z RWY 29		2	KOAK	OAKLAND	CA (US)
IAP	VOR RWY 9R	1		KOAK	OAKLAND	CA (US)
IAP	VOR/DME RWY 27L	1		KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC RWY 19L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT II)	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT III)	1		KSFO	SAN FRANCISCO	CA (US)
IAP	VOR RWY 19L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	VOR-B	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 32	1		KSTS	SANTA ROSA	CA (US)
IAP	VOR RWY 32	1		KSTS	SANTA ROSA	CA (US)

QUALITY CHECKED 3

STAR	COMMO	1	KOAK	OAKLAND	CA (US)
STAR	MANTECA	1	KOAK	OAKLAND	CA (US)
STAR	RAIDR (RNAV)	1	KOAK	OAKLAND	CA (US)
STAR	HADLY	1	KSFO	SAN FRANCISCO	CA (US)
STAR	LOCKE	1	KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES	1	KSFO	SAN FRANCISCO	CA (US)
STAR	STINS	1	KSFO	SAN FRANCISCO	CA (US)
STAR	BRINY		KSJC	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 10/22/2009

REASON FOR REVISION:
CORRECTED PAT 2 LEG LENGTH FROM 5 TO 4.
UPDATED ACCURACY CODE ON PAT 3 CONTROLLING OBSTACLE.
UPDATED FORM TO NEW FORMAT.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/12/2009 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI (RUSS ROSLEWSKI)

APPROVED BY: **DATE:** 08/11/2009 **OFFICE:** AVN-130 **NAME:** RICK WEBB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL TRACON
OTHER:

Memorandum

Date: 26 May 2012

To: Manager, Flight Procedure Standards

From: Greg Yamamoto
Manager, Terminal Products Group

Subj: **Action:** Approval Request

SAN FRANCISCO MOLEN FOUR DEPARTURE (SID), SAN FRANCISCO, CA.

Climb gradient exceeds 500 feet per NM, 8260.46D, Para 2-1 d. (2)

Request approval for departures off runway 19L and 19R on the MOLEN FOUR departure with a computed climb gradient of 565 feet per NM to 2000 ft MSL. The obstacle driving the climb gradient is a 719 ft MSL tree located within the extended ICA. With the reduced ICA length associated with the 565 ft per NM climb gradient to 2000, even higher terrain south of airport is also avoided.

There is an approved request on record at the exact same location for the Runway 19L and 19R Obstacle Departure Procedure (ODP).

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US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:
SAN FRANCISCO INTL
SAN FRANCISCO, CA
MOLEN DEPARTURE (SID)

2. Waiver Required and Applicable Standard:
8260.3B, VOL IV, CHAPTER 3, PARA 3.1 DEAD RECKONING (DR) DEPARTURES.
LIMIT THE DR SEGMENT TO A MAXIMUM DISTANCE OF 10 NM FROM DEPARTURE END OF RUNWAY (DER).

3. Reason for Waiver *(Justification for nonstandard treatment)*:
DEPARTURE OFF OF RUNWAYS 10L/R AND 19L/R FLY A ROUTE TO A DME FIX 7 NM EAST OF THE AIRPORT THEN MAKE A DEAD RECKONING RIGHT TURN HEADING 230 DEGREES TO INTERCEPT THE POINT REYES (PYE) R-144 WHICH REINITIATES POSITIVE COURSE GUIDANCE.

AIRCRAFT ARE ON HEADING 230 DEGREES TO A DISTANCE OF APPROXIMATELY 16 TO 17 NM FROM DER DEPENDING ON RUNWAY OF DEPARTURE.

ATC HAS REQUESTED TO KEEP THIS DEAD RECKONING BEYOND 10 NM FROM DER ON THIS PROCEDURE.

ATC GAINS AN OPERATIONAL ADVANTAGE WITH USE OF DEAD RECKONING BEYOND 10 NM FROM DER.

OTHER FACILITY USE ALTERNATIVES WERE EVALUATED AND WERE NOT ACCEPTABLE TO ATC BASED ON THE SAN FRANCISCO TRAFFIC FLOW.

4. Equivalent Level of Safety Provided:
THE 15 DEGREE OCS SPLAY WAS CONTINUED ALL THE WAY OUT TO PYE R-151 INTERCEPT.

A 4. 2 NM TURN RADIUS WAS USED FOR THE DR TURN TO 230 DEGREES AND THE 15 DEGREE SPLAY WAS MOVED TO THE OUTER MOST EDGE OF THE TURN RADIUS TO ENSURE OBSTACLES WOULD BE EVALUATED UNDER THE WORST CASE SCENARIO.

THE WIDTH OF THE OCS SPLAY REACHED 19.2 NM AT THE POINT OF RADIAL INTERCEPT

ALL OF THE DEAD RECKONING OCS SPLAY AREA BEYOND 10 NM IS OVER WATER AND THEREFORE REMOVES ALL TERRAIN/OBSTACLE ISSUES.

RADAR IS REQUIRED FOR USE OF THIS PROCEDURE.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:
NO ADDITION OR RELOCATION OF FACILITIES ARE PLANNED AT THIS TIME.

6. Coordination With User Organizations *(Specify)*:
AJV-354_____

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	MANAGER, TERMINAL PRODUCTS GROUP	GREG YAMAMOTO

FAA FORM 8260 - 1 / July 2003 (computer generated)

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:

Date:	Routing Symbol:	Signature: