Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 02/14/2011	Task #: 2011021428490901006	Request #: 20110214284909
Procedure: RNAV (GPS) RWY 29 L AMDT 1		Airport ID: KFAT	Airport: FRESNO YOSEMITE INTL		Reimbursable #:
City: FRESNO	ST: CA	GPS #:		Estimated Chart Date: 11/15/2012	FICO #:
Fac ID:	Fac. Type: LP Proc W	Specialist: MARK ADAMS			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/11/2012	09/06/2012	STEVEN SZUKALA	
QA:	09/06/2012	09/06/2012	STEVEN SZUKALA	
Liaison:	09/06/2012		Spurlin	

P1

ESV REQUEST INCLUDED

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

Pg 2 of 2

FRESNO, CA FRESNO YOSEMITE INTL (KFAT) RNAV (GPS) RWY 29L, AMDT 1 (LP) ENROUTE-YES FC: 9.18.12 PUB: 11.15.12

ATTACHED FORMS: ESV REPORTS; 8260-3; 8260-10; 8260-9; 8260-2(S): ALTTA-INT, REV 8; FRAME-INT, REV 11; FRIANT (FRA) VTAC, REV 5; IPUJE, ORIG; LATON-INT, REV 10; OCAVI, ORIG; SLEWW, ORIG; WOSIM, ORIG; ZUDAB, ORIG.

CONTACT: ADOLFO URRUTIA/LONNIE EVERHART-AVN-130 LEADS, 405.954.2079/ 405.954.4576.

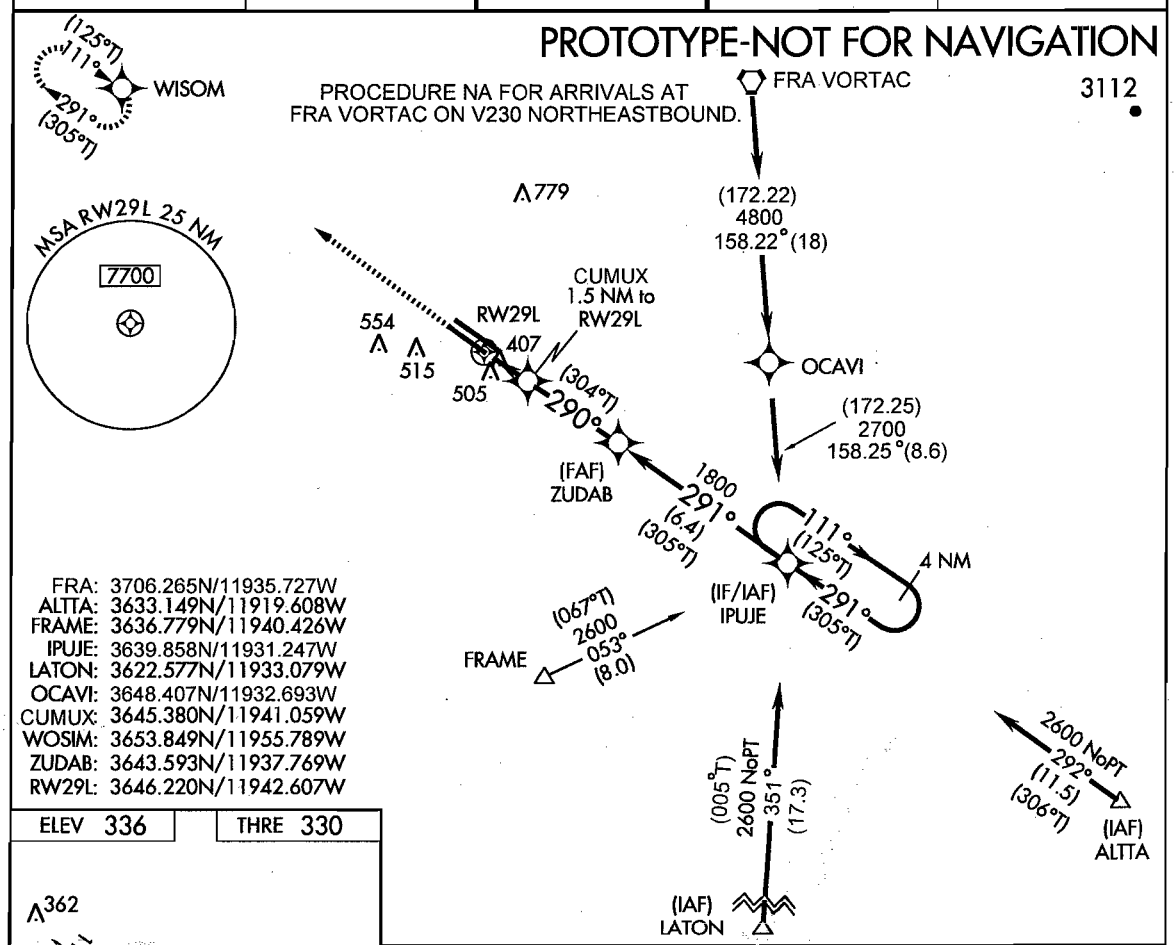
WAAS CH 50530 W29B	APP CRS 290°	Rwy ldg 7205 THRE 330 Apt Elev 336

RNAV (GPS) RWY 29L
FRESNO YOSEMITE INTL (FAT)

Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.

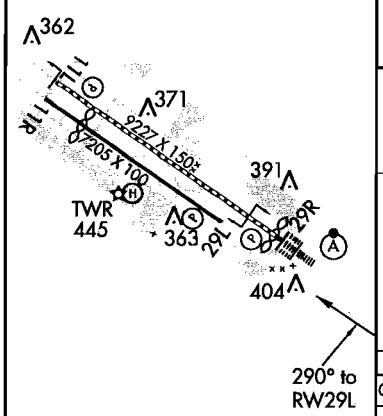
MISSED APPROACH: Climb to 2000 direct WOSIM and hold.

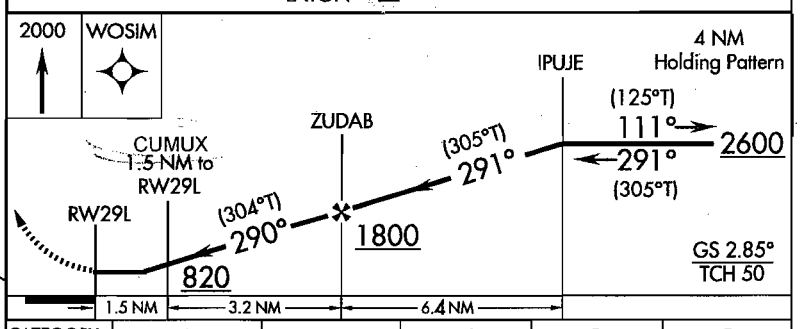
ATIS	FRESNO APP CON	FRESNO TOWER	GND CON	CLNC DEL
121.35 273.6	119.6 351.95	118.2 251.1	121.7 348.6	124.35 348.6



FRA: 3706.265N/11935.727W
ALTTA: 3633.149N/11919.608W
FRAME: 3636.779N/11940.426W
IPUJE: 3639.858N/11931.247W
LATON: 3622.577N/11933.079W
OCAVI: 3648.407N/11932.693W
CUMUX: 3645.380N/11941.059W
WOSIM: 3653.849N/11955.789W
ZUDAB: 3643.593N/11937.769W
RW29L: 3646.220N/11942.607W

ELEV 336	THRE 330





CATEGORY	A	B	C	D	E
LP MDA	660-1 330 (400-1)				NA
LNAV MDA	760-1 430 (500-1)		760-1¼ 430 (500-1¼)		NA
CIRCLING	820-1 484 (500-1)		820-1½ 484 (500-1½)	920-2 584 (600-2)	NA

REIL Rwys 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZ/CL Rwy 29R

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : VISALIA	City : VISALIA	Ident : VIS	State : CA
Type/Class : T-VOR	Frequency : M109.4	Reference No.: 12086120	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 697315-006	18	0	14	122	175

Requirement: GRANDFATHERED: CROSSING RADIAL SOURCE FOR EXISTING FIX ALTTA ON V459.

Signature: adams mark	Routing Symbol: AJV354	Date: 08/15/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 697315-006	18	0	14	122	175	APPROVE

Requirement/Remarks: GRANDFATHERED: CROSSING RADIAL SOURCE FOR EXISTING FIX ALTTA ON V459.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 08/16/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 697315-006	18	0	14	122	175	APPROVE

Requirement/Remarks: GRANDFATHERED: CROSSING RADIAL SOURCE FOR EXISTING FIX ALTTA ON V459.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 08/16/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 697315-006	18	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : VISALIA	City : VISALIA	Ident : VIS	State : CA
Type/Class : DME	Frequency : M992	Reference No.: 12086121	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 760076-005	18	0	14	122	175

Requirement: GRANDFATHERED: CROSSING RADIAL SOURCE FOR EXISTING FIX ALTTA ON V459.

Signature: adams mark	Routing Symbol: AJV354	Date: 08/15/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 760076-005	18	0	14	122	175	APPROVE

Requirement/Remarks: GRANDFATHERED: CROSSING RADIAL SOURCE FOR EXISTING FIX ALTTA ON V459.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 08/16/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 760076-005	18	0	14	122	175	APPROVE

Requirement/Remarks: GRANDFATHERED: CROSSING RADIAL SOURCE FOR EXISTING FIX ALTTA ON V459.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

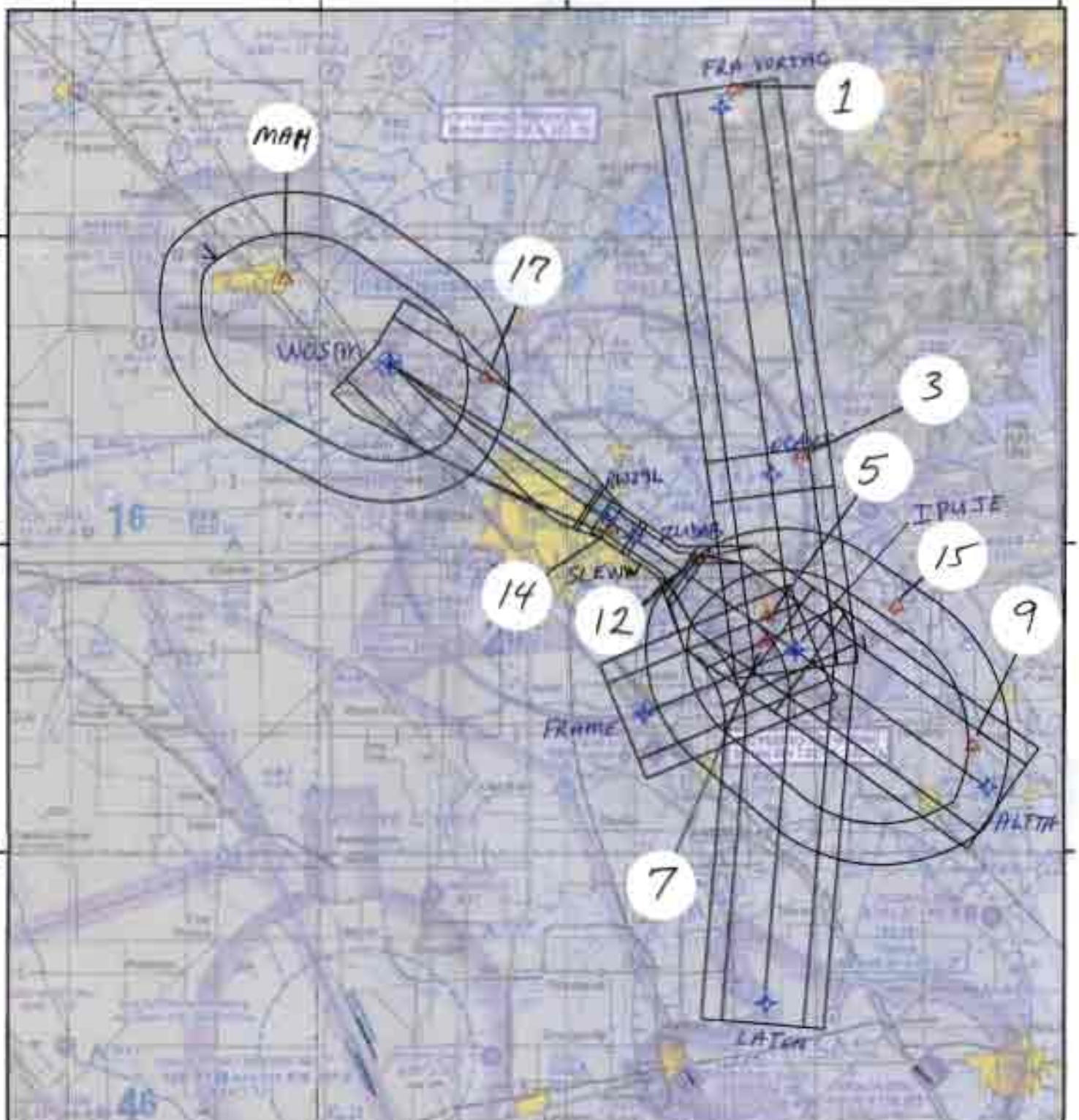
Signature: Hughes Dennis	Routing Symbol:	Date: 08/16/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 760076-005	18	0				

Requirement/Remarks:

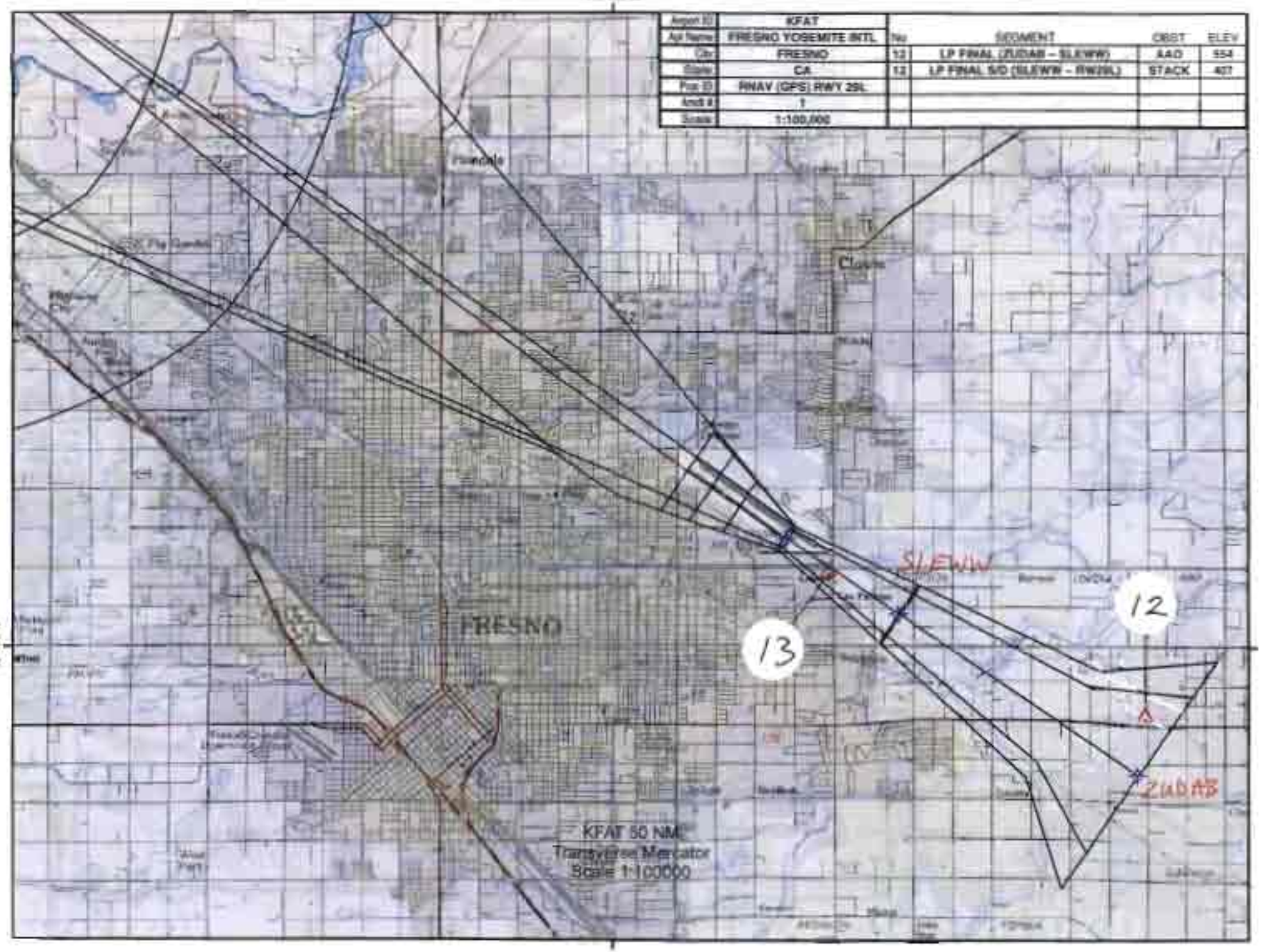
Signature:	Routing Symbol:	Date:



Report ID	KFAT				
Apt Name	FRESNO YOSEMITE INTL	No	SEGMENT	OBST	ELEV
City	FRESNO	1	FEEDER (FRA – OCAVI)	AAO	2741
State	CA	3	FEEDER S/D (OCAVI - IPUJE)	TREE	989
Proc ID	RNAV (GPS) RWY 29L	5	FEEDER (FRAME – IPUJE)	TREE	489
Amd #	1	7	INITIAL (LATON – IPUJE)	TOWER	644
Scale	1:500,000	9	INITIAL (ALTTA – IPUJE)	AAO	1215
		7	INTERMEDIATE (IPUJE – ZUDAB)	TOWER	644
		12	LNAV FINAL (ZUDAB – SLEWW)	AAO	554
		14	LNAV FINAL S/D (SLEWW – RW29L)	TOWER	500
		15	HOLD-IN-LIEU	AAO	1932
		17	MISSED APPROACH LEVEL S/C	AAO	554
		MAH	MISSED APPROACH HOLDING	TOWER	609

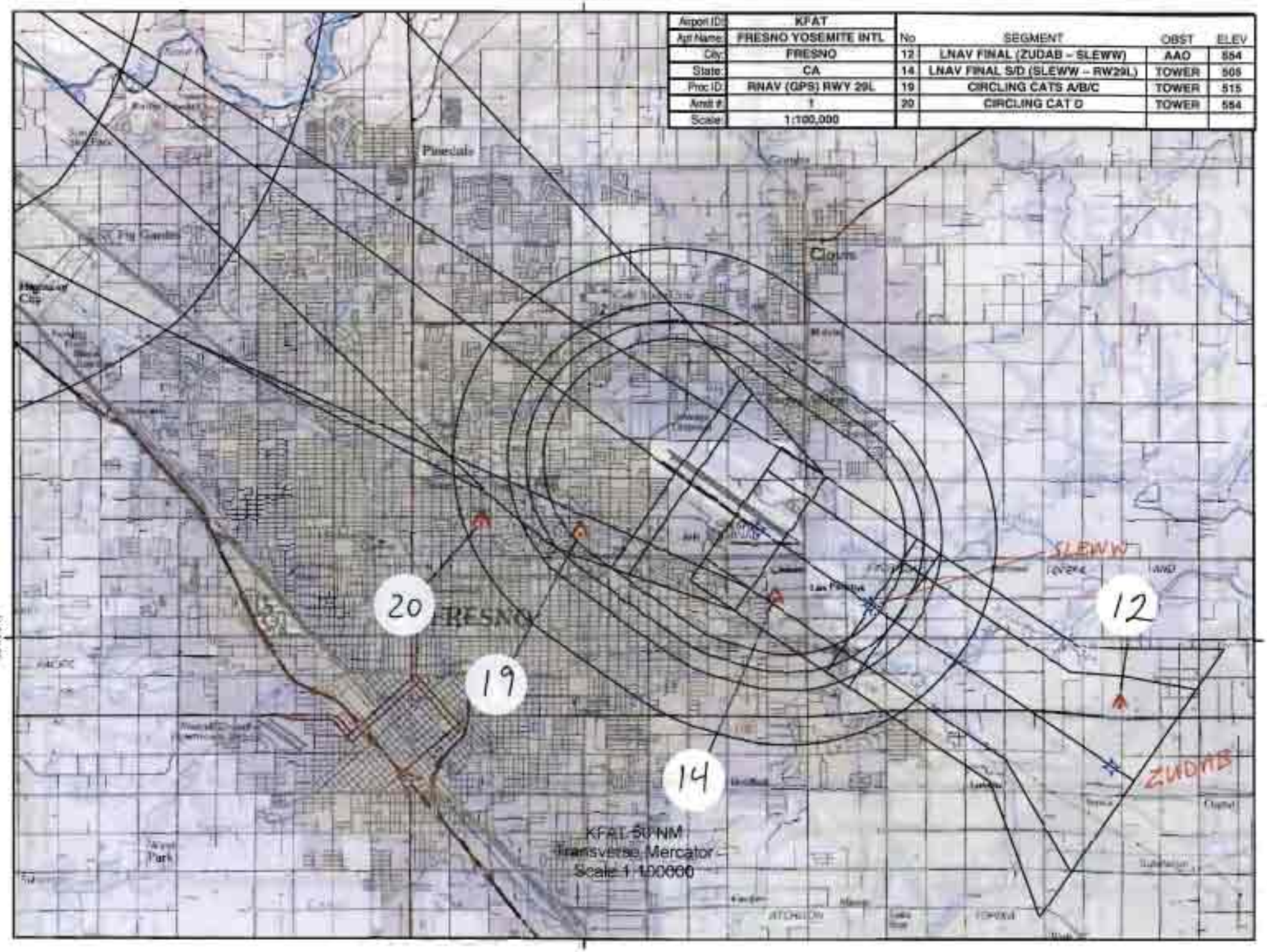
Airport ID	KFAT
Apt Name	FRESNO YOSEMITE INTL
City	FRESNO
State	CA
Proc ID	RNAV (GPS) RWY 29L
Amdt #	1
Scale	1:100,000

No	SEGMENT	OBST	ELEV
12	LP FINAL (ZUDAB – SLEWW)	AAD	554
13	LP FINAL S/D (SLEWW – RW29L)	STACK	407



Airport ID:	KFAT
Apt Name:	FRESNO YOSEMITE INTL
City:	FRESNO
State:	CA
Proc ID:	RNAV (GPS) RWY 29L
Amdt #:	1
Scale:	1:100,000

No	SEGMENT	OBST	ELEV
12	LNAV FINAL (ZUDAB – SLEWW)	AAO	554
14	LNAV FINAL S/D (SLEWW – RW29L)	TOWER	505
19	CIRCLING CATS A/B/C	TOWER	515
20	CIRCLING CAT D	TOWER	554



US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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
FRA VORTAC	OCAVI (FB)	158.22 / 18.00	4800
OCAVI	IPUJE (FO)	158.25 / 8.62	2700
FRAME	IPUJE (FO)	053.36 / 8.00	2600
LATON (IAF)	IPUJE (NOPT) (FB)	350.88 / 17.32	2600
ALTTA (IAF)	IPUJE (NOPT) (FB)	291.62 / 11.52	2600
IPUJE (IF/IAF)	ZUDAB (FB)	291.46 / 6.44	1800
ZUDAB (FAF)	CUMUX/1.50 NM TO RW29L (FB)	290.03 / 3.19	
(SEE FORM 8260-10)			

MISSED APPROACH

LP: RW29L
LNAV: RW29L

CLIMB TO 800 THEN CLIMB TO 2000 DIRECT WOSIM AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 111.20 INBOUND.
CHART FAS OBST: 407 STACK 364551N/1194204W
CHART FAS OBST: 505 TOWER 364530N/1194223W
WAAS CHANNEL # 50530
REFERENCE PATH ID: W29B
LTP HAE: 68.9 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD E IPUJE, LT, 291.46 INBOUND, 2600 FT. IN LIEU OF PT (IAF)
3. FAC: 290.03 FAF: ZUDAB DIST FAF TO MAP: 4.69 THLD: 4.69
4. MIN. ALT: IPUJE 2600, ZUDAB 1800, CUMUX/1.50 NM TO RW29L 820
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR
8. MSA FROM: RW29L 7700

ZUDAB TO RW29L: 2.85/50

MAG VAR: 14E EPOCH YEAR: 2005

MINIMUMS

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

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
LP MDA	660	1	330	660	1	330	660	1	330	660	1	330			
LNAV MDA	760	1	430	760	1	430	760	1	430	760	1	430			
CIRCLING	820	1	484	820	1	484	820	1 1/2	484	920	2	584			

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FRA VORTAC ON V230 NORTHEAST BOUND.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 336 THRE: 330	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
FRESNO, CA	AIRPORT NAME: FRESNO YOSEMITE INTL	RNAV	RNAV (GPS) RWY 29L, AMDT 1	AMDT: ORIG
				DATED 09/01/2005

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X ZOA, FAT APP CON, FAT ATCT, CA AERO, AMGR

FLIGHT CHECKED BY		
NAME: PAUL KOSCHEKA	FIFO FIOG	DATE: 09/20/2012
DEVELOPED BY		
NAME: MARK D. ADAMS	FIFO AJV-354	DATE: 07/10/2012
APPROVED BY		
NAME: DEZ SILAGYI MANAGER	FIFO AJV-354	DATE:

CHANGES:

1. CHANGED MISSED APPROACH CLEARANCE LIMIT FROM CZQ VTAC TO WOSIM.
2. CHANGED FEEDER FROM FRAME AND INITIAL FROM LATON TO GO TO NEW IF/IAF INSTEAD OF GOING TO REBHU; REBHU IAF DELETED.
3. ADDED SDF IN FINAL.
4. ADDED HOLD-IN-LIEU AT IF/IAF.
5. ADDED LP LINE OF MINIMA.
6. MOVED FAF AND IF/IAF LOCATIONS.
7. REMOVED NIGHT USAGE RESTRICTION ON STRAIGHT-IN MINIMUMS.
8. FAF CHANGED FROM STORI TO ZUDAB
9. IF CHANGED FROM SANGO TO IPUJE.
10. FAF TO MAP DISTANCE CHANGED FROM 4.65 TO 4.69.
11. LNAV CAT D VIS CHANGED FROM 1 1/2 TO 1 1/4.
12. DESCENT GRADIENT & TCH CHANGED FROM 2.89/44 TO 2.85/50.2 RESPECTIVELY.
13. ADDED NOTE DENYING VISI REDUCTION BY HELICOPTERS.
14. CHANGED ALTTA INITIAL FROM TERMINATING AT SANGO TO TERMINATING AT IPUJE.

SEE 8260-10

REASONS:

1, 2, 3, 4, 5. ATC REQUIREMENTS PER PROCEDURE CHECKLIST.
6, 8, 9, 10, 12, 14. REQUIRED DUE TO RUNWAY EXTENSION PROJECT RESULTING IN NEW L/L FOR RUNWAY ENDS. BECAUSE ATC WANTS THIS PROCEDURE TO SHARE THE PFAF AND IF WITH THE ILS AND LPV TO THE PENDING RWY 29R, THE LOCATIONS OF THOSE WAYPOINTS WERE BASED ON THE PENDING DATA FOR RWY 29R.
7. MEETS REQUIREMENTS OF AC 150/5300-13, CHG 17, APPENDIX 16, TABLE A16-1C; UPDATED SURVEY, 20:1 PENS LIT.
11. CURRENT VISI CRITERIA.
13. VISI SURFACE PENETRATIONS.
15. MIN LEG LENGTH REQUIREMENTS PREVENTED USE OF THIS INITIAL SEGMENT.

09/25/12: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 07/10/12.
1. REMOVED "ORIG" FROM THE "SUP" BLOCK AND REPLACED "1" WITH "ORIG" IN THE "AMDT" BLOCK OF THE 8260 FORMS, PGS 4, 5, AND 6.

10/03/12: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 09/25/12.
1. REPLACED SLEWW WITH CUMUX DUE TO SLEWW BEING USED BY ZID.

QUALITY CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CUMUX/1.50 NM TO RW29L	RW29L (MAP) (FO)	290.00 / 1.50	
RW29L (MAP)	800 MSL	290.00	800
800 MSL	WOSIM (FO)		2000

QUALITY CHECKED

CITY AND STATE	ELEVATION: 336 THRE: 330	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
FRESNO, CA	AIRPORT NAME: FRESNO YOSEMITE INTL	RNAV	RNAV (GPS) RWY 29L, AMDT 1	AMDT: ORIG
				DATED: 09/01/2005

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

COORDINATED WITH:

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

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

CHANGES:

CHANGES CONT.
15. DELETED INITIAL FROM SIBOC.

REASONS:

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFAT
RUNWAY	RW29L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29B
LTP/FTP LATITUDE	364613.2000N
LTP/FTP LONGITUDE	1194236.4300W
LTP/FTP ELLIPSOIDAL HEIGHT	+00689
FPAP LATITUDE	364703.0575N
FPAP LONGITUDE	1194408.4030W
THRESHOLD CROSSING HEIGHT (TCH)	00050.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	02.85
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	EE3B378B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+01006
FPAP ORTHOMETRIC HEIGHT	+01006

QUALITY CHECKED

CITY AND STATE	ELEVATION: 336 THRE: 330	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
FRESNO, CA	AIRPORT NAME: FRESNO YOSEMITE INTL	RNAV	RNAV (GPS) RWY 29L, AMDT 1	AMDT: ORIG
				DATED: 09/01/2005

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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.

ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        FRA   K2011560VTLA N37061592W119354360    N37061592W119354360E0170023801     NARFRIANT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ALTTA K20    C   L N36330891W119193645                    E0133     NAR           ALTTA
        SUSAEAENRT   CUMUX K20    W     N36452282W119410356                    E0134     NAR           CUMUX
        SUSAEAENRT   FRAME K20    C   L N36364674W119402553                    E0134     NAR           FRAME
        SUSAEAENRT   IPUJE K20    W     N36395146W119311484                    E0134     NAR           IPUJE
        SUSAEAENRT   LATON K20    C   L N36223461W119330474                    E0133     NAR           LATON
        SUSAEAENRT   OCAVI K20    W     N36482444W119324155                    E0134     NAR           OCAVI
        SUSAEAENRT   WOSIM K20    W     N36535092W119554731                    E0135     NAR           WOSIM
        SUSAEAENRT   ZUDAB K20    W     N36433560W119374616                    E0134     NAR           ZUDAB

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFATK2AFAT     0     092YHN36463430W119430530E014000336         1800018000C    MNAR    FRESNO YOSEMITE INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFATK2FR29L  AALTTA 010ALTTAK2EA0E  A    IF                                          18000                A JS
        SUSAP KFATK2FR29L  AALTTA 020IPUJEK2EA0EE B 010TF                    29160115    + 02600                         A JS
        SUSAP KFATK2FR29L  AFRA   010FRA  K2D 0V       IF                                          18000                A JS
        SUSAP KFATK2FR29L  AFRA   020OCAVIK2EA0E    020TF                    15820180    + 04800                         A JS
        SUSAP KFATK2FR29L  AFRA   030IPUJEK2EA0EY   020TF                    15830086    + 02700                         A JS
        SUSAP KFATK2FR29L  AFRA   040IPUJEK2EA0EE AL   HF                    29150040    + 02600                         A JS
        SUSAP KFATK2FR29L  AFRAME 010FRAMEK2EA0E       IF                                          18000                A JS
        SUSAP KFATK2FR29L  AFRAME 020IPUJEK2EA0EY   020TF                    05340080    + 02600                         A JS
        SUSAP KFATK2FR29L  AFRAME 030IPUJEK2EA0EE AL   HF                    29150040    + 02600                         A JS
        SUSAP KFATK2FR29L  ALATON 010LATONK2EA0E  A    IF                                          18000                A JS
        SUSAP KFATK2FR29L  ALATON 020IPUJEK2EA0EE B 010TF                    35090173    + 02600                         A JS
        SUSAP KFATK2FR29L  R      010IPUJEK2EA0E  I    IF                                + 02600   18000                A JS
        SUSAP KFATK2FR29L  R      020ZUDABK2EA1E  F 051TF                    29150064    + 01800                RW29L K2PGA JS
        SUSAP KFATK2FR29L  R      020ZUDABK2EA2WALP        N          ALNAV                                                JS
        SUSAP KFATK2FR29L  R      021CUMUXK2EA0E S  031TF                    29000032    V 0082000835        -285          A JS
        SUSAP KFATK2FR29L  R      030RW29LK2PG0GY M 031TF                    29000015      00380             -285          A JS
        SUSAP KFATK2FR29L  R      040         0  M     CA                   2900        + 00800                         A JS
        SUSAP KFATK2FR29L  R      050WOSIMK2EA0EY     DF                                + 02000                         A JS
        SUSAP KFATK2FR29L  R      060WOSIMK2EA0EE  R   HM                    11120040    + 02000                         A JS
```

CITY AND STATE	ELEVATION: 336 THRE: 330	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
FRESNO, CA	AIRPORT NAME: **FRESNO YOSEMITE INTL**	**RNAV**	**RNAV (GPS) RWY 29L, AMDT 1**	AMDT: **ORIG**
				DATED: **09/01/2005**

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

COORDINATED WITH:

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

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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.

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFATK2GRW29L   0080082914 N36461320W119423643+0000    +0068900330000050150R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFATK2PR29L  RW29L001 0000W29B0N3646132000W11942364300+006890285N3647030575W11944084030106750000000502F400000EE3B378B
        SUSAP KFATK2PR29L  RW29L002E      +01006+01006LP        50530

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFATK2SRW29LK2PG                0   18018007725                                                                       M
```

CITY AND STATE	ELEVATION: 336 THRE: 330	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
FRESNO, CA	AIRPORT NAME: FRESNO YOSEMITE INTL	RNAV	RNAV (GPS) RWY 29L, AMDT 1	AMDT: ORIG
				DATED: 09/01/2005

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

COORDINATED WITH:

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

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALTTA	ALTTA	010	IAF	IF		FB					
	ALTTA	IPUJE	020		TF		FB	1.0	291.6(305.6T)	011.5	AA 02600	
	FRA	FRA	010		IF		FB					
	FRA	OCAVI	020		TF		FB	2.0	158.2(172.2T)	018.0	AA 04800	
	FRA	IPUJE	030		TF		FO	2.0	158.3(172.3T)	008.6	AA 02700	
	FRA	IPUJE	040	IAF	HF	L	FO		291.5(305.5T)	004.0	AA 02600	
	FRAME	FRAME	010		IF		FB					
	FRAME	IPUJE	020		TF		FO	2.0	053.4(067.4T)	008.0	AA 02600	
	FRAME	IPUJE	030	IAF	HF	L	FO		291.5(305.5T)	004.0	AA 02600	
	LATON	LATON	010	IAF	IF		FB					
	LATON	IPUJE	020		TF		FB	1.0	350.9(004.9T)	017.3	AA 02600	
		IPUJE	010	FACF	IF		FB				AA 02600	
		ZUDAB	020	FAF	TF		FB	0.5	291.5(305.5T)	006.4	AA 01800	
		CUMUX	021	SDF	TF		FB	0.3	290.0(304.0T)	003.2	AA 00820 GS 00835	
		RW29L	030	MAP	TF		FO	0.3	290.0(304.0T)	001.5	AT 00380	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		290.0(304.0T)		AA 00800	
	WOSIM	050		DF		FO				AA 02000	
	WOSIM	060		HM	R	FO		111.2(125.2T)	004.0	AA 02000	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
FRA	N370615.92	W1193543.60	N3706.265	W11935.727
ALTTA	N363308.91	W1191936.45	N3633.149	W11919.608
CUMUX	N364522.82	W1194103.56	N3645.380	W11941.059
FRAME	N363646.74	W1194025.53	N3636.779	W11940.426
IPUJE	N363951.46	W1193114.84	N3639.858	W11931.247
LATON	N362234.61	W1193304.74	N3622.577	W11933.079
OCAVI	N364824.44	W1193241.55	N3648.407	W11932.693
WOSIM	N365350.92	W1195547.31	N3653.849	W11955.789
ZUDAB	N364335.60	W1193746.16	N3643.593	W11937.769
RW29L	N364613.20	W1194236.43	N3646.220	W11942.607

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW29L	00330	50

CITY AND STATE	ELEVATION: 336 THRE: 330	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
FRESNO, CA	AIRPORT NAME: FRESNO YOSEMITE INTL	RNAV	RNAV (GPS) RWY 29L, AMDT 1	AMDT: ORIG
				DATED: 09/01/2005

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

COORDINATED WITH:

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

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	FRA VORTAC	OCAVI	1. AAO	370714.52N/1193454.18W	2741 (2A)	2000		4800
			2. TERRAIN	370714.52N/1193454.18W	2541 (2500)		AS1500	4000
FEEDER: STEPDOWN	OCAVI	IPUJE	3. TREE	364908.09N/1193038.89W	969 (2A)	1700		2700
			4. TERRAIN	364908.09N/1193038.89W	869 (900)		AS1500	2400
FEEDER	FRAME	IPUJE	5. TREE	364134.09N/1193234.77W	469 (2C)	1700	DG431	2600
			6. TERRAIN	364134.09N/1193234.77W	369 (400)		AS1500	1900
INITIAL	LATON	IPUJE	7. TOWER (06-002123)	364009.82N/1193248.79W	644 (2C)	1000	DG956	2600
			8. TERRAIN	363151.00N/1193045.00W	377 (400)		AS1500	1900
INITIAL	ALTTA	IPUJE	9. AAO	363455.00N/1192045.33W	1216 (2A)	500	DG884	2600
			10. TERRAIN	363455.00N/1192045.33W	1016 (1000)		AS1500	2500
INTERMEDIATE	IPUJE (IF/IAF)	ZUDAB	7. TOWER (06-002123)	364009.82N/1193248.79W	644 (2C)	500	DG656	1800
			11. TERRAIN	364345.00N/1193109.00W	394 (400)		AS1000	1400
FINAL: LP	ZUDAB	CUMUX/1.50 NM TO RW29L	12. AAO	364413.39N/1193738.71W	554 (2C)	250		820
2. HOLD-IN-LIEU-OF-PT	IPUJE	P-5	15. AAO	364144.23N/1192516.97W	1952 (2A)	1000	DG257 SA-609	2600
			16. TERRAIN	363542.76N/1192109.21W	917 (900)		AS1500	2400
3. MISSED APPROACH — MAP:	RW29L / RW29L	WOSIM				ASC		2000
			17. AAO	365258.46N/1194959.15W	554 (2C)	1000		1600
ELEV:	560/660		18. TERRAIN	365258.46N/1194959.15W	354 (400)		AS1500	1900

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL								
CATEGORY A	1.3 NM	350	484	19. TOWER (06-000159)	364610.04N/1194503.88W	515 (2C)	300		820
CATEGORY B	1.5 NM	450	484	19. TOWER (06-000159)	364610.04N/1194503.88W	515 (2C)	300		820
CATEGORY C	1.7 NM	450	484	19. TOWER (06-000159)	364610.04N/1194503.88W	515 (2C)	300		820
CATEGORY D	2.3 NM	550	584	20. TOWER (06-000153)	364617.00N/1194626.00W	554 (4E)	300	AC60	920
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW29L

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	027/ 28.1	6660 (2A)	7700					

CITY AND STATE	ELEVATION: 336 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
FRESNO, CA	FRESNO YOSEMITE INTL	RNAV	RNAV (GPS) RWY 29L, AMDT 1	AWP

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
FRESNO APP CON FRESNO TOWER	N W S	OTHER: ASOS	SOURCE: KFAT / KMAE
			DISTANCE: 0 / 22.8
	F A A		HOURS REMOTE OPERATION:
SATISFACTORY ON:	A / C		24 / 24
X V H F X U H F H F	LOCATION: KFAT		ADJUSTMENT: 0 / 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 29R
		(S) SALS
		MALS
	X	HIRL 11L, 29R
	X	MIRL 11R, 29L
	X	REIL 11R, 11L
	X	TDZ 29R
		C/LINE
	X	OTHER (SPECIFY) PAPI-2L 29L PAPI-4L 11L, 29R
6. RUNWAY MARKINGS	BASIC	BSC-G 11R, 29L
	ALL WEATHER	PIR-G 11L, 29R
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	11L, 29R
	MIDFIELD	11L, 29R
	ROLL OUT	11L, 29R
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD — FT. FROM THRESHOLD
		ON CENTERLINE — FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: MARK D. ADAMS	DATE: 07/10/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE VDP SURFACE.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SUITABLE BACKUP ALTIMETER:
MADERA MUNI (KMAE)(ASOS), ARPT ELEV=255.2, DISTANCE FROM KFAT=22.85 NM
KFAT ELEV=335.5
RASS ADJ=(2.3 X 22.85) + (0.14 X 80.3)=63.797 FT
RASS ADJUSTMENT: 64 FT.

VGSI: PAPI-2L, 3.00D, 50.2' TCH.

IPDS WAS UNABLE TO CONSTRUCT THE TIE-IN BETWEEN THE INTERMEDIATE AND THE LP FINAL ON THE OUTSIDE OF THE TURN AT THE FAF. THE TERRAIN ANALYSIS WAS TURNED OFF AND THE TIE-IN MANUALLY DRAWN AND EVALUATED TO VERIFY THE LNAV FAF - SDF CTRL OBSTACLE WAS ALSO THE LP CTRL OBST.

SEE ATTACHED AIRSPACE LETTER.

100' VEG HEIGHT APPLIED

OBST #3 & 5 ARE 100' VEG ON HIGH TERRAIN (PER QUAD) WITH REDUCED MT ROC APPLIED SINCE STD MT ROC APPLIED TO HIGHEST MAN-MADE OBST WOULD RESULT IN HIGHER MIN ALT.

TAA NA - ATC REQ/CHECKLIST GUIDANCE.

QUAD/TOPO USED FOR ALL AAO/TERRAIN VERIFICATIONS.

PROCEDURE USES APPROACH COURSE (IF - FAF) OF RWY 29R PER ATC; FAC OFFSET 1.38 DEGREES.

IPDS HAD 20:1 PENETRATIONS, BUT THEY ARE LIT & FRANGIBLE ITEMS REQUIRED FOR FLIGHT OPERATIONS:
349 OL ON TMOM (KFAT0003)
364613.58N/1194231.15W (12.49)
362 OL ON GS (KFAT0002)
364611.62N/1194227.83W (8.74)

VDP NA: 34:1 IS NOT CLEAR
34:1:
362 OL ON GS (KFAT0002)
364611.62N/1194227.83W (18.28)
349 OL ON TMOM (KFAT0003)
364613.58N/1194231.15W (15.13)
386 OL ON LT (KFAT0026)
364601.69N/1194222.51W (14.80)

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: LP STEPDOWN	**CUMUX/1.50 NM TO**	**RW29L**	**13. STACK (06-001670)**	**364550.65N/1194203.58W**	**407 (2C)**	**250**		**660**
	RW29L							
FINAL: LNAV	**ZUDAB**	**CUMUX/1.50 NM TO**	**12. AAO**	**364413.39N/1193738.71W**	**554 (2C)**	**250**		**820**
		RW29L						
FINAL: LNAV STEPDOWN	**CUMUX/1.50 NM TO**	**RW29L**	**14. TOWER (06-002119)**	**364529.73N/1194223.26W**	**505 (2C)**	**250**		**760**
	RW29L							

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

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
FRESNO, CA	**ELEVATION: 336** AIRPORT NAME: **FRESNO YOSEMITE INTL**	**RNAV**	**RNAV (GPS) RWY 29L, AMDT 1**	**AWP**

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:			2. WEATHER SERVICE		3. ALTIMETER SETTING
SATISFACTORY ON:			N W S	OTHER:	SOURCE:
			F A A		DISTANCE:
			A / C		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:

RADIO FIX AND HOLDING DATA RECORD

NAME: ALTTA **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 363308.91N/1191936.45W **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	FRESNO	I-FAT	LOC/DME		111.37	125.37	24.08	24.08		3700	10000
2	FRIANT	FRA	VORTAC	L	141.55	158.55	35.52	35.52		3700	17500
3	VISALIA	VIS	VOR/DME	T	018.08	034.08		13.40		3700	12000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VIS	VOR/DME	R-018	14	12200	17500
I-FAT	LOC/DME	R-111	25	3700	10000

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

REMARKS:
VISALIA (FAC 3) AND FRIANT (FAC 2) USED TO ESTABLISH FIX COORDINATES
FAT ILS DME ANTENNA COORDINATES: 364708.29N/1194358.60W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V459	2, 3				(US)
IAP	ILS OR LOC/DME RWY 29R	1		KFAT	FRESNO	CA (US)
IAP	ILS RWY 29R (CAT II)	1		KFAT	FRESNO	CA (US)
IAP	ILS RWY 29R (CAT III)	1		KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 29L			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 29R			KFAT	FRESNO	CA (US)
STAR	ALTTA	1, 2, 3		KFAT	FRESNO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADJUSTED FACILITY 3 RADIAL/COURSE/BEARING FROM 034.09 TO 034.08
DELETED KFAT RWY 29R FROM FACILITY 4.
UPDATED ALL FACILITIES FROM HISTORY TO ACTIVE REVISIONS.
UPDATED FIX USE.
ENTERED I-FAT ESV DATA.

DEVELOPED BY: **DATE:** 07/09/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CUMUX **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 364522.82N/1194103.56W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 29L			KFAT	FRESNO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
REPLACEMENT WP FOR SLEWW.

DEVELOPED BY: **DATE:** 10/02/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

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

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: FRAME **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 363646.74N/1194025.53W **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	DIST FROM FAC FEET	MRA	MAA
1	CLOVIS	CZQ	VORTAC	H	142.21	157.21	17.63	17.63		2000	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	SE		WP	120.52	300.52	L		4	2000	14000	4	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (06-000165)	364130.00N/1194049.00W	719	1D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V23	1				
IAP	RNAV (GPS) RWY 11L			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 11R			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 29L			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 29R			KFAT	FRESNO	CA (US)
IAP	GPS RWY 12		1	KFCH	FRESNO	CA (US)
IAP	GPS RWY 30		1	KFCH	FRESNO	CA (US)
IAP	NDB OR GPS-B			KFCH	FRESNO	CA (US)
IAP	VOR/DME OR GPS-C	1		KFCH	FRESNO	CA (US)
IAP	RNAV (GPS) A			KHJO	HANFORD	CA (US)
IAP	RNAV (GPS) RWY 12			KVIS	VISALIA	CA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
REPLACED HISTORY REVISION OF FAC 1 WITH ACTIVE REVISION.

DEVELOPED BY: **DATE:** 07/13/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 370615.92N/1193543.60W **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	FRIANT	FRA	VORTAC	L							17500

FIX RESTRICTIONS:
MCA V230 9000 NORTHEAST BOUND

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	COALDALE			KFAT	FRESNO	CA (US)
DP	FRESNO			KFAT	FRESNO	CA (US)
DP	TAKEOFF MINIMUMS			KMAE	MADERA	CA (US)
EN ROUTE	V230					CA (US)
EN ROUTE	V459					CA (US)
EN ROUTE	J7					CA (US)
EN ROUTE	V332					CA (US)
IAP	VOR OR GPS-A			KBIH	BISHOP	CA (US)
IAP	HI-VOR/DME OR TACAN RWY 11L			KFAT	FRESNO	CA (US)
IAP	HI-VOR/DME OR TACAN RWY 29R			KFAT	FRESNO	CA (US)
IAP	ILS OR LOC/DME RWY 29R			KFAT	FRESNO	CA (US)
IAP	ILS RWY 29R (CAT II)			KFAT	FRESNO	CA (US)
IAP	ILS RWY 29R (CAT III)			KFAT	FRESNO	CA (US)
IAP	LOC RWY 11L			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 11L			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 11R			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 29L			KFAT	FRESNO	CA (US)
IAP	VOR/DME OR TACAN RWY 11L			KFAT	FRESNO	CA (US)
IAP	VOR/DME OR TACAN RWY 29R			KFAT	FRESNO	CA (US)
IAP	VOR RWY 30			KMAE	MADERA	CA (US)
IAP	FROGO			KSMF	SACRAMENTO	CA (US)
STAR	ALTTA			KFAT	FRESNO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FIX USE.
UPDATED LAT/LONG TO MATCH NASR, LONG CHANGED FROM 1193543.61W TO 1193543.60W.

DEVELOPED BY: **DATE:** 09/06/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: IPUJE **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 363951.46N/1193114.84W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

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		WP	111.46	291.46	L		4	2600	4000	5	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	364144.23N/1192516.97W	1952	2A

REMARKS:
HOLD PAT 1 CTRL OBST PRI EQ HEIGHT IS 1323 (SA -629).
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 11R		1	KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 29L		1	KFAT	FRESNO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

DEVELOPED BY: **DATE:** 06/30/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LATON **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 362234.61N/1193304.74W **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	CLOVIS	CZQ	VORTAC	H	142.21	157.21	33.00	33.00		2000	17500
2	AVENAL	AVE	VORTAC	H	009.33	025.33		48.39		2000	17500
3	VISALIA	VIS	VOR/DME	T	263.13	279.13	3.39	3.39		2000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VIS	VOR/DME	R-263	4	12000	17500
AVE	VORTAC	R-009	49	2000	15200

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	SE		WP	141.00	321.00	R		4	3000	14000	5	11
2	NW	CZQ	VORTAC	142.21	142.21	R	1		3000	14000	6	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (06-000160)	361936.00N/1193400.10W	555	4D
1	310	TOWER (06-002274)	362649.82N/1193713.47W	754	3C
2	200	TOWER (06-002274)	362649.82N/1193713.47W	754	3C
2	310	TOWER (06-000660)	363312.00N/1194511.00W	783	3C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 30	KVIS	VISALIA	CA (US)
2	ILS OR LOC/DME RWY 30	KVIS	VISALIA	CA (US)

REMARKS:
CLOVIS (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 2 FOR ALTERNATE MISSED APPROACH HOLDING (SEE FIX USE).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V23	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 29L			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 29R			KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) A			KHJO	HANFORD	CA (US)
IAP	RNAV (GPS) RWY 32			KHJO	HANFORD	CA (US)
IAP	RNAV (GPS) RWY 13			KTLR	TULARE	CA (US)
IAP	VOR/DME RWY 13	2, 3		KTLR	TULARE	CA (US)
IAP	ILS OR LOC/DME RWY 30	1, 2, 3	2	KVIS	VISALIA	CA (US)
IAP	RNAV (GPS) RWY 30		1	KVIS	VISALIA	CA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FAC 1 (CZQ VTAC) FROM HISTORY TO ACTIVE REVISION.

DEVELOPED BY: **DATE:** 07/13/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

QUALITY 2 CHECKED

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZOA
ATC FACILITY: FRESNO APP CON

OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OCAVI **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 364824.44N/1193241.55W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 29L			KFAT	FRESNO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

DEVELOPED BY: **DATE:** 07/09/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOSIM **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 365350.92N/1195547.31W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	W		WP	291.20	111.20	R		4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (06-000137)	365757.81N/1200209.58W	600	4E

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 11R		1	KFAT	FRESNO	CA (US)
IAP	RNAV (GPS) RWY 29L		1	KFAT	FRESNO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

DEVELOPED BY: **DATE:** 06/21/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUDAB **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 364335.60N/1193746.16W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 29L			KFAT	FRESNO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

DEVELOPED BY: **DATE:** 07/14/2012 **OFFICE:** AJV-354 **NAME:** MARK ADAMS

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

SIGNATURE:

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

QUALITY 3 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **FRESNO YOSEMITE INTL** STATE: **CA**

AIRPORT NAME: **FRESNO YOSEMITE INTL** ID: **KFAT**

PROCEDURE: **RNAV (GPS) RWY 29L** AMDT: **1**

DOCKET#: **NOT REQUIRED**
(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 **3.02**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **304.03**
4. High Terrain in **FINAL** segment containing 1000' point **334**
5. Distance from **THLD** to 1500' point **9.36**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **305.45**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **394**
9. Threshold Coordinates (if straight-in) ... **364613.20n** / **1194236.43w**
10. ARP Coordinates ..... **364634.30n** / **1194305.30w**
11. Runway Approach End and distance furthest from ARP ..... RWY **29R**
    Distance **0.83** NM
12. FAF Coordinates ..... **364335.32n** / **1193745.67w**

REMARKS: Approach/Drawing attached.