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 15 NOVEMBER 2012	AMDT: ORIG DATED 09/01/2005

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

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

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

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 15 NOVEMBER 2012	AMDT: ORIG DATED: 09/01/2005

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** 15 NOVEMBER 2012	AMDT: **ORIG** DATED: **09/01/2005**

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    +006890033000005015 0R

                 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 15 NOVEMBER 2012	AMDT: ORIG DATED: 09/01/2005

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 15 NOVEMBER 2012	AMDT: ORIG DATED: 09/01/2005