Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 11/03/2011	Task #: 2011081627641601002	Request #: 20110816276416
Procedure: RNAV (GPS) Y RWY 27 AMDT 1		Airport ID: KLAM	Airport: LOS ALAMOS		Reimbursable #:
City: LOS ALAMOS	ST: NM	GPS #:		Estimated Chart Date: 05/31/2012	FICO #:
Fac ID:	Fac. Type: LP Proc W	Specialist: THERON CYRUS(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	11/09/2011	02/09/2012	KYLE THOMPSON	
QA:	02/09/2012	02/15/2012	STEVEN SZUKALA	
Liaison:	02/15/2012		Terrell	

P1

Procedure Comments:

Remark Type: INFORMATION

pg 1 of 3

LOS ALAMOS, NM LOS ALAMOS (KLAM) RNAV (GPS) Y RWY 27, AMDT 1 (LP) ENROUTE-NO FC: 4.17.12 PUB. 5.31.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): ASHLY, ORIG; VECUT-INT, REV 1; YUNSU, REV 1; ZEDAN-INT, REV 1; ZUTPA, REV 1.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568.

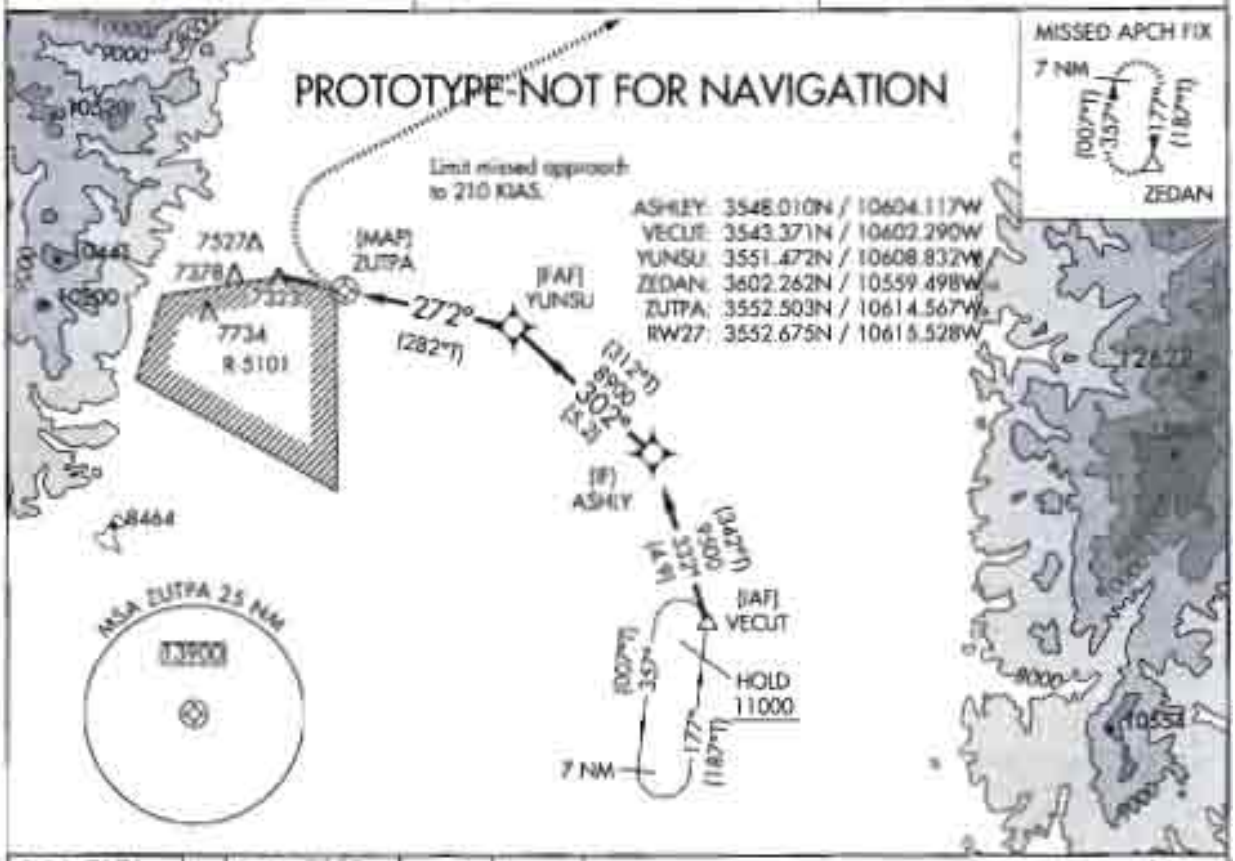
WAAS CH 82028 W27A	APP CRS 272°	Rwy ldg 6000 THRE 7080 Apt Elev 7171

RNAV (GPS) Y RWY 27
LOS ALAMOS (LAM)

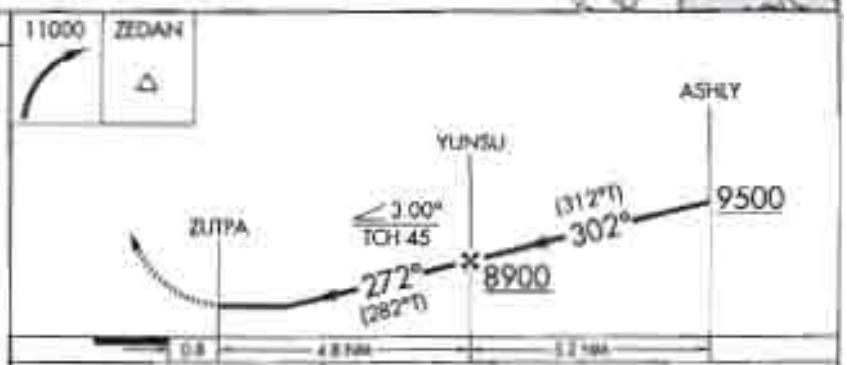
When local altimeter setting not received, Procedure NA. *LP and *LNAV missed approach requires a minimum climb of 280 feet per NM to 8500. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing right turn to 11000 direct ZEDAN and hold.

AWOS-3	ALBUQUERQUE CENTER	UNICOM
124.175	132.8 346.35	123.0 (CTAF)

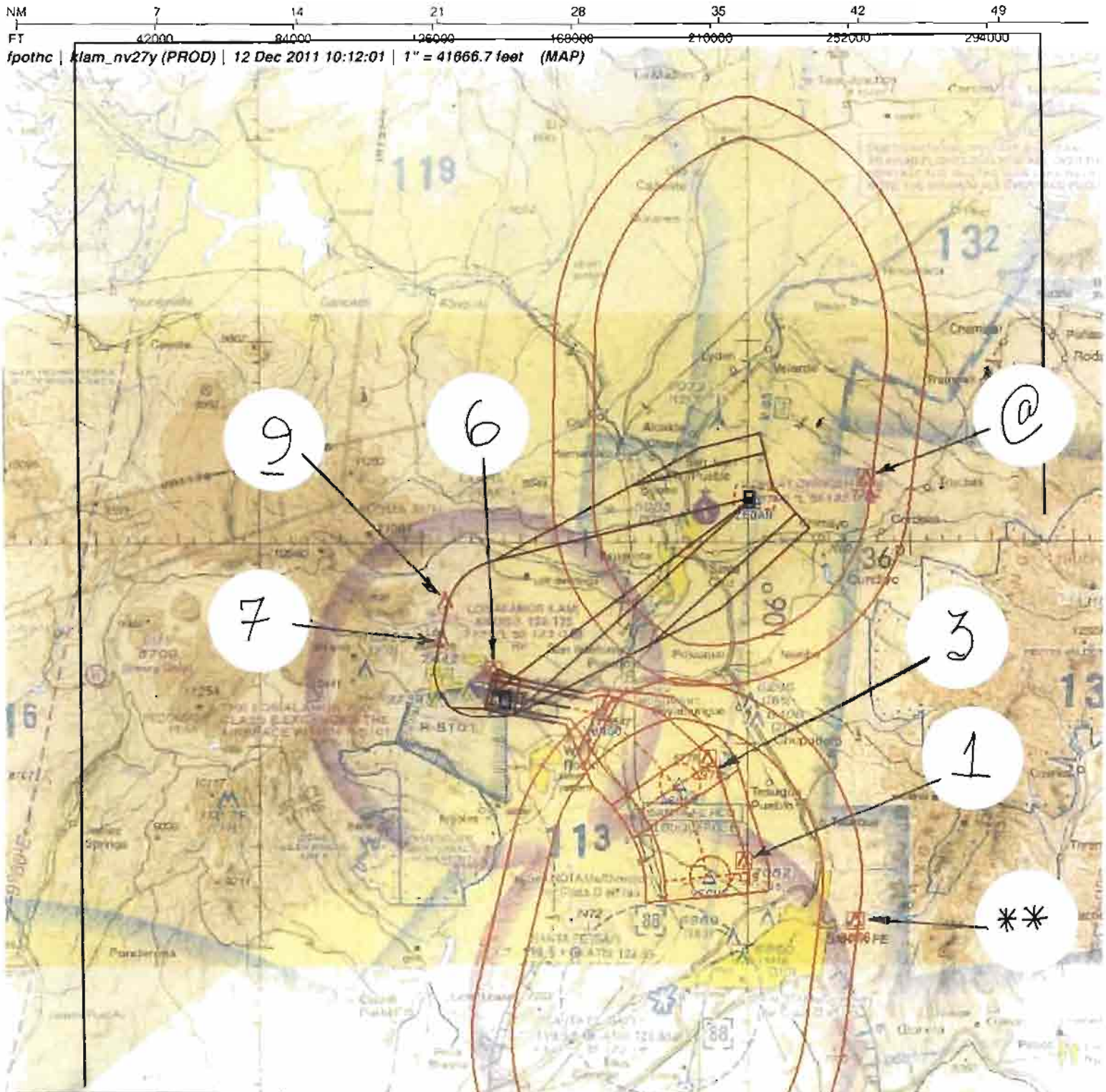


ELEV 7171 | THRE 7080



CATEGORY	A	B	C	D
LP MDA*	7580-1 500 (500-1)		7580-1¾ 500 (500-1¾)	NA
LP MDA	7700-1 620 (600-1)		7700-1¾ 620 (600-1¾)	NA
LNAV MDA*	7640-1 560 (500-1)		7640-1⅞ 560 (500-1⅞)	NA
LNAV MDA	7880-1 800 (800-1)	7880-1¼ 800 (800-1¼)	7880-2½ 800 (800-2½)	NA
CIRCLING	NA			

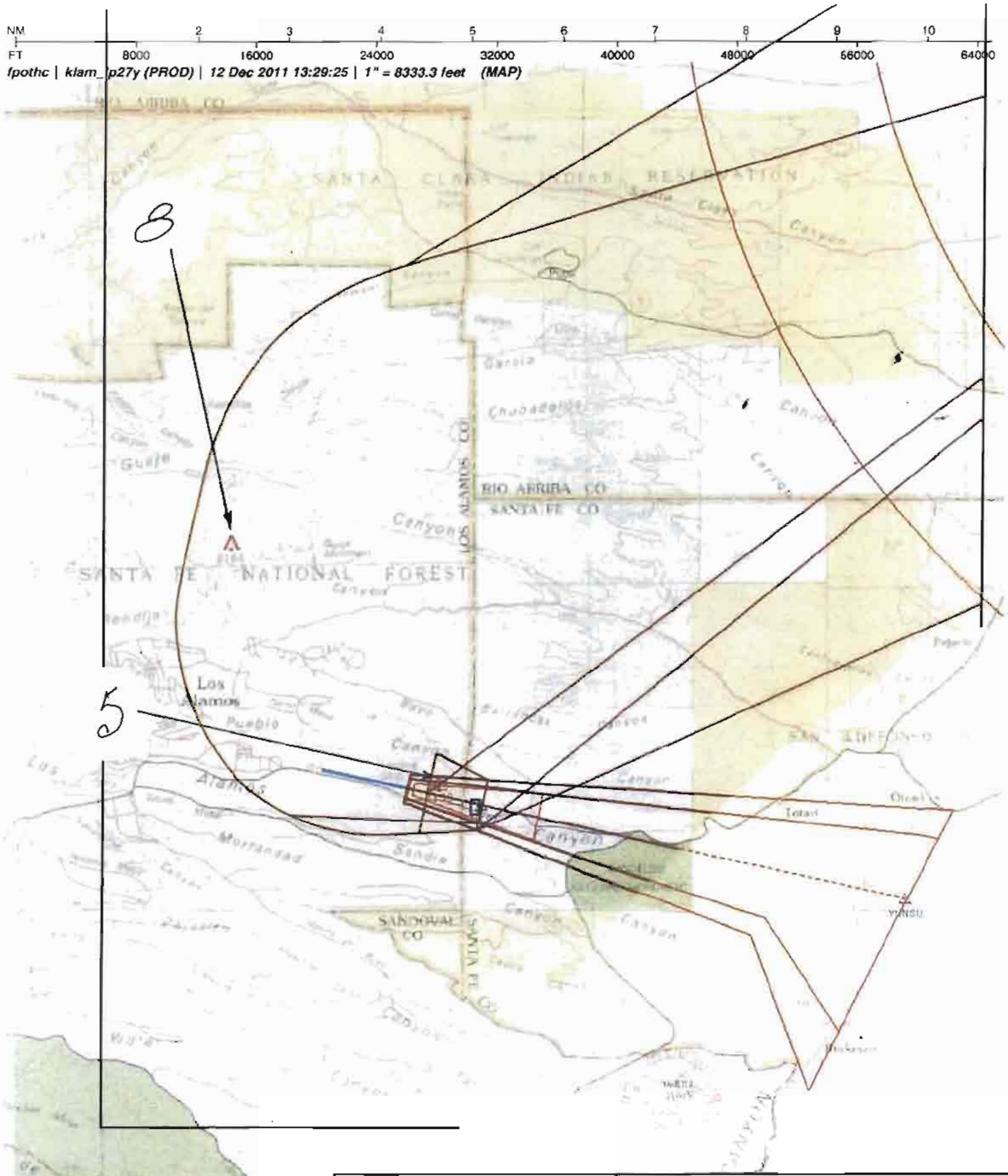
REIL Rwy 27
MIRL Rwy 9-27



Airport	KLAM
Apt Name:	LOS ALAMOS
City:	LOS ALAMOS
State:	NM
Scale:	1:100,000
Proc ID:	RNAV (GPS) Y RWY 27
Amdt #:	1

FM 9

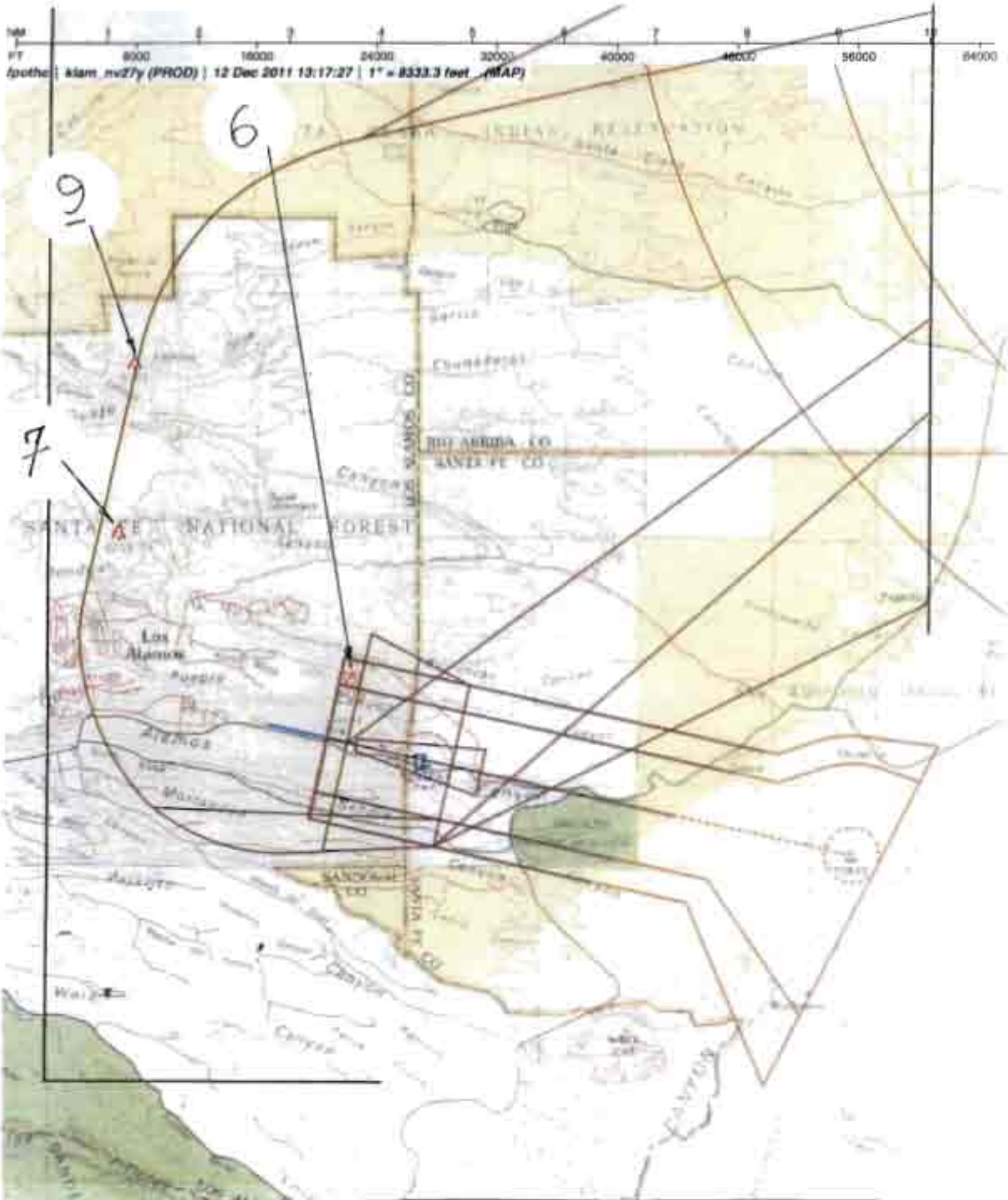
No	SEGMENT	OBSTRUCTION	ELEV
1	INITIAL	AAO	7179
3	INTERMEDIATE	AAO	6978
6	FINAL: LNAV	TREE	7159
7	MA CG/ADJ (LNAV)	AAO	8219
9	MISSED APP	AAO	8268
@	MA HOLDING	AAO	7792
**	VECUT: ARRIVAL HOLD	AAO	8678



Airport ID:	KLAM
Apt Name:	LOS ALAMOS
City:	LOS ALAMOS
State:	NM
Scale:	1:100,000
Proc ID:	RNAV (GPS) Y RWY 27
Amdt #:	1

FM 9 (LP)

No	SEGMENT	OBSTRUCTION	ELEV
5	FINAL: LP	TREE	7139
8	MA CG/ADU (LP)	AAO	6168



Airport ID	KLAM
Apt Name	LOS ALAMOS
City	LOS ALAMOS
State	NM
Scale	1:100,000
Proc ID	RNAV (GPS) Y RWY 27
Amdt #	1

FM 9 (LNAV)

No	SEGMENT	OBSTRUCTION	ELEV
6	FINAL: LNAV	TREE	7159
7	MA CG/ADJ (LNAV)	AAO	8219
9	MISSED APP	AAO	8266

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
VECUT (IAF)	WOBVO (FB)	332.22 / 4.86	9500
WOBVO (IF)	YUNSU (FB)	302.06 / 5.16	8900
YUNSU (FAF)	ZUTPA (MAP) (FO)	272.48 / 4.77	
ZUTPA (MAP)	7571 MSL	272.48	
7571 MSL	ZEDAN (FO)		11000

MISSED APPROACH

LP: ZUTPA
LNAV: ZUTPA

CLIMBING RIGHT TURN TO 11000 DIRECT ZEDAN AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 176.83 INBOUND.
CHART ARRIVAL HOLDING AT VECUT: HOLD S, LT, 356.83 INBOUND, 11000.
CHART FAS OBST: 7139 TREE 355239N/1061508W
CHART FAS OBST: 7159 TREE 355318N/1061533W
CHART R-5101.
WAAS CHANNEL # 82028
REFERENCE PATH ID: W27A
YUNSU TO RW27: 3.00/45
LTP HAE: 2138.6 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT WOBVO
3. FAC: 272.48 FAF: YUNSU DIST FAF TO MAP: 4.77 THLD: 5.57
4. MIN. ALT: WOBVO 9500, YUNSU 8900
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: ZUTPA 13900

MAG VAR: 10E 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*	7580	1	500	7580	1	500	7580	1 3/8	500		NA				
LP MDA	7700	1	620	7700	1	620	7700	1 7/8	620		NA				
LNAV MDA*	7640	1	560	7640	1	560	7640	1 5/8	560		NA				
LNAV MDA	7880	1	800	7880	1 1/4	800	7880	2 1/2	800		NA				
CIRCLING		NA			NA			NA			NA				

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA.
CHART NOTE: *LP AND *LNAV MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 280 FEET PER NM TO 8500.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: LIMIT MISSED APPROACH TO 210 KIAS.

@ CAT C 800-2 1/2
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 7171 THRE: 7080	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 27
LOS ALAMOS, NM	AIRPORT NAME: LOS ALAMOS	RNAV	RNAV (GPS) Y RWY 27, AMDT 1	AMDT: ORIG
				DATED 03/15/2007

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X] ABQ APP CON, ZAB, AMGR, ST AV DIR

FLIGHT CHECKED BY		
NAME: EDWARD WILLIAM EUGENE MESA	FIFO FIOG	DATE: 03/06/2012
DEVELOPED BY		
NAME: JOSE ALFONSO (THERON CYRUS)	FIFO AJV-353	DATE: 11/29/2011
APPROVED BY		
NAME: GREGORY YAMAMOTO MANAGER	FIFO AVN-120	DATE: 03/13/2012

CHANGES:

1. CHANGED PROCEDURE NAME FROM "RNAV (GPS) RWY 27" TO "RNAV (GPS) Y RWY 27.
2. ADDED LP.
3. ADDED ARRIVAL HOLDING AT VECUT.
4. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMBING RIGHT TURN TO 11000 DIRECT POAKE AND HOLD" TO "CLIMBING RIGHT TURN TO 11000 DIRECT ZEDAN AND HOLD."
5. REMOVED "VGSI AND DESCENT ANGLE NOT COINCIDENT" NOTE.
6. CHANGED LNAV MDA FROM CAT A/B: 7680-1; CAT C: 7680-1 1/2 TO CAT A: 7880-1; CAT B: 7880-1 1/4; CAT C: 7880-2 1/2.
7. ADDED *LP AND *LNAV MA CLIMB GRADIENT WITH LOWER MINIMA.
8. REMOVED STEPDOWN.
9. CHANGED FINAL LENGTH: YUNSU TO ZUTPA: FROM 4.88 NM TO 4.77 NM AND YUNSU TO THLD: FROM 5.38 TO 5.57.
10. CHANGED INTERMEDIATE COURSE/DIST FROM: 272.5/6.11 TO 302.06/5.16.
11. CHANGED INITIAL COURSE/DIST FROM: 353.27/6.84 TO 332.22/4.86.
12. CHANGED INITIAL LEG ALT FROM 9800 TO 9500.
13. CHANGED FINAL COURSE FROM 272.46 TO 272.48.

SEE 8260-10

REASONS:

1. 2. 3. 4. PER FPT.
5. NOT NEEDED. VGSI INFO: 3.00/45.
6. NEW OBS EVALUATION.
7. *DUE TO RAPIDLY RISING TERRAIN/MA PENETRATIONS WEST OF AIRPORT/8260.19; PAR 856(E)1,2,NOTE..
8. NOT NEEDED. NO ADVANTAGE WITH LOWER MINS DUE TO RAPIDLY RISING TERRAIN WEST OF AIRPORT.
9. NEW PFAF/FAF ESTABLISHED BASED ON 8260.54 CRITERIA AND RELOCATION OF ZUTPA(MAP).
10. INTERMEDIATE COURSE OFFSET PER FPT.
11. DUE TO INTERMEDIATE COURSE OFFSET.
12. NEW OBS EVALUATION/STABILIZED DESCENT.
13. DUE TO RELOCATION OF ZUTPA(MAP).
14. DUE TO MULITPLE MA PENETRATIONS/RAPIDLY RISING TERRAIN WEST OF AIRPORT.
15. NO SURVEY-CANNOT VERIFY VISUAL SURFACES CLEAR.
16. 8260-54; CHP 2.

SEE 8260-10

QUALITY CHECKED

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QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 7171 THRE: 7080	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 27
LOS ALAMOS, NM	AIRPORT NAME: LOS ALAMOS	RNAV	RNAV (GPS) Y RWY 27, AMDT 1	AMDT: ORIG
				DATED: 03/15/2007

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.
14. ADDED MISSED APPROACH SPEED RESTRICTION. 15. REMOVED VDP. 16. CHANGED VDA FROM 3.01/50 TO 3.00/45.

REASONS:

REASONS CONT.

04/05/2012 THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/13/2012
1. CHANGED FIX NAME ASHLY WP TO WOBVO WP.

PDF EDITS:
1. ADDED (FAF) TO YUNSU IN TERMINAL ROUTES ON -3.
2. REMOVED 020 FROM LINE 10 UNDER SEGMENT ON -10.
3. REMOVED 2.0 FROM LINE 4 UNDER MISSED APPROACH (RNP) ON -10.
4. REMOVED "NA" FROM #1 ON -3.

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLAM
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	355240.4920N
LTP/FTP LONGITUDE	1061531.6670W
LTP/FTP ELLIPSOIDAL HEIGHT	+21386
FPAP LATITUDE	355259.6500N
FPAP LONGITUDE	1061718.7600W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	077ACF04

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+21579
FPAP ORTHOMETRIC HEIGHT	+21579

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 7171 THRE: 7080	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 27
LOS ALAMOS, NM	AIRPORT NAME: LOS ALAMOS	RNAV	RNAV (GPS) Y RWY 27, AMDT 1	AMDT: ORIG
				DATED: 03/15/2007

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
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   VECUT K20    C   L N35432224W106021741                      E0089     NAR           VECUT
        SUSAEAENRT   WOBVO K20    W     N35480058W106040699                      E0089     NAR           WOBVO
        SUSAEAENRT   YUNSU K20    W     N35512833W106084990                      E0090     NAR           YUNSU
        SUSAEAENRT   ZEDAN K20    C   L N36021574W105592987                      E0089     NAR           ZEDAN
        SUSAEAENRT   ZUTPA K20    W     N35523016W106143399                      E0090     NAR           ZUTPA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLAMK2ALAM     0     060YHN35524687W106160727E010007171         1800018000C    MNAR    LOS ALAMOS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLAMK2FR27-Y AVECUT 010VECUTK2EA0E  C    IF                                                18000                 A JS
        SUSAP KLAMK2FR27-Y AVECUT 020WOBVOK2EA0EE B 010TF                     33220049    + 09500                             A JS
        SUSAP KLAMK2FR27-Y R      010WOBVOK2EA0E  I    IF                                 + 09500     18000                 A JS
        SUSAP KLAMK2FR27-Y R      020YUNSUK2EA1E  F 051TF                     30210052    + 08900                  ZUTPA K2EAA JS
        SUSAP KLAMK2FR27-Y R      020YUNSUK2EA2WALP        N          ALNAV                                                    JS
        SUSAP KLAMK2FR27-Y R      030ZUTPAK2EA0EY M 031TF                     27250048      07379              -300          A JS
        SUSAP KLAMK2FR27-Y R      040         0  M     CA                     2725        + 07571                             A JS
        SUSAP KLAMK2FR27-Y R      050ZEDANK2EA0EY  R   DF                                 + 11000          210               A-JS
        SUSAP KLAMK2FR27-Y R      060ZEDANK2EA0EE  R   HM                     17680070    + 11000                             A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLAMK2GRW27    0060002724 N35524049W106153167+1500    +2138607080000045120R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLAMK2PR27-Y RW27 001Y0000W27A0N3552404920W10615316670+213860300N3552596500W106171876001067509200004 50F400000077ACF04
        SUSAP KLAMK2PR27-Y RW27 002E      +21579+21579LP        82028

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLAMK2SZUTPAK2EA                0   18018013925                                                                    M
```

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 7171 THRE: 7080	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 27
LOS ALAMOS, NM	AIRPORT NAME: LOS ALAMOS	RNAV	RNAV (GPS) Y RWY 27, AMDT 1	AMDT: ORIG
				DATED: 03/15/2007

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**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	VECUT	VECUT	010	IAF	IF		FB					
	VECUT	WOBVO	020		TF		FB	1.0	332.2(342.2T)	004.9	AA 09500	
		WOBVO	010	FACF	IF		FB				AA 09500	
		YUNSU	020	FAF	TF		FB	0.5	302.1(312.1T)	005.2	AA 08900	
		ZUTPA	030	MAP	TF		FO	0.3	272.5(282.5T)	004.8	AT 07379	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		272.5(282.5T)		AA 07571	
	ZEDAN	050		DF	R	FO				AA 11000	AB 210
	ZEDAN	060		HM	R	FO		176.8(186.8T)	007.0	AA 11000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	VECUT	N354322.24	W1060217.41	N3543.371	W10602.290
	WOBVO	N354800.58	W1060406.99	N3548.010	W10604.117
	YUNSU	N355128.33	W1060849.90	N3551.472	W10608.832
	ZEDAN	N360215.74	W1055929.87	N3602.262	W10559.498
	ZUTPA	N355230.16	W1061433.99	N3552.503	W10614.567
	RW27	N355240.49	W1061531.67	N3552.675	W10615.528

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	07080	45

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 7171 THRE: 7080	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 27
LOS ALAMOS, NM	AIRPORT NAME: LOS ALAMOS	RNAV	RNAV (GPS) Y RWY 27, AMDT 1	AMDT: ORIG
				DATED: 03/15/2007

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.
INITIAL	VECUT	WOBVO	1. AAO	354345.00N/1060009.00W	7179 (4E)	1000	AT1321	9500
			2. TERRAIN	354345.00N/1060009.00W	6979 (7000)		AS1500	8500
INTERMEDIATE	WOBVO	YUNSU	3. AAO	354849.60N/1060224.40W	6978 (6C)	500	AT1422	8900
			4. TERRAIN	354848.00N/1060248.00W	6749 (6700)		AS1500	8200
FINAL: LP	YUNSU	ZUTPA	5. TREE	355239.36N/1061508.24W	7139 (2C)	250	XP180	7580
FINAL: LP	YUNSU	ZUTPA	5. TREE	355239.36N/1061508.24W	7139 (2C)	250	XP180 MA110	7700
FINAL: LNAV	YUNSU	ZUTPA	6. TREE	355318.01N/1061533.10W	7159 (2C)	250	XP225	7640
FINAL: LNAV	YUNSU	ZUTPA	6. TREE	355318.01N/1061533.10W	7159 (2C)	250	XP225 MA240	7880
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	ZUTPA / ZUTPA /	ZEDAN	7. AAO	355454.00N/1061842.00W	8219 (4E)	ASC		11000
	ZUTPA / ZUTPA		8. AAO	355518.00N/1061757.00W	8168 (4E)	ASC		11000
ELEV:	7480/7600/7540/7780		9. AAO	355645.00N/1061830.00W	8268 (4E)	1000		9300

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: ZUTPA

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	MSA
360-360	AAO	086/ 24.2	12822 (6C)	13900					4

CITY AND STATE	ELEVATION: 7171 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
LOS ALAMOS, NM	LOS ALAMOS	RNAV	RNAV (GPS) Y RWY 27, AMDT 1	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ABQ APP CON ZAB ARTCC	NWS	OTHER: AWOS-3	SOURCE: KLAM
	FAA		DISTANCE:
SATISFACTORY ON:	A/C		HOURS REMOTE OPERATION: 24
X VHF X UHF HF	LOCATION: KLAM		ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
		MIRL
	X	REIL 27
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-2L 27

6. RUNWAY MARKINGS	BASIC	BSC-G 09
	ALL WEATHER	
	INSTRUMENT	NPI-G 27
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 7079.6
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 45.0

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

10. WAIVERS: NONE

PART D - PREPARED BY: JOSE ALFONSO (THERON CYRUS)	DATE: 11/29/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - UNABLE TO VERIFY VISUAL SURFACES CLEAR DUE TO NO SURVEY.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BLOCK2, WEATHER SERVICE:
OTHER: AWOS
SERVICE A: Y

VGSI DATA 3.00/45

CIRCLING NA DUE TO RAPIDLY RISING TERRAIN WEST OF AIRPORT AND R-5101.

INTERMEDIATE COURSE OFFSET FROM FINAL COURSE PER FPT REQUEST/CHECKLIST.

MINIMUM CLIMB REQUIRED DUE TO MISSED APPROACH PENETRATIONS:
LP OBS #8 8168 AAO 355518.00N/1061757.00W.
LNAV OBS #7 8219 AAO 355454.00N/1061842.00W.

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS: 34:1
7139 TREE 355239.36N/1061508.24W (9.20)

SEE ATTACHED AIRSPACE LETTER.

RWY 9 - NA FOR LANDING AIRCRAFT DUE TO RAPIDLY RISING TERRAING WEST OF AIRPORT.

60 FT VEGETATION USED PER FPT.

TAA, LPV, LNAV/VNAV NOT DEVELOPED PER FPT.

NOTE: PER FLT CHECK REMARKS, DATED 5 APR 04 - CIRCLING: NA.

25 DEGREE BANK ANLE AND LIMITED AIRSPEED 210 KIAS REQUIRED FOR MISSED APPROACH.

MISSED APPROACH EVALUATED USING IPDS.

XP: MDA ADJUSTED DUE TO RAPID RISING TERRAIN WEST OF AIRPORT.

XP: LNAV MDA ADJUSTED DUE TO RAPID RISING TERRAIN WEST OF AIRPORT.

XP: LP MDA ADJUSTED DUE TO RAPID RISING TERRAIN WEST OF AIRPORT.

MISSED APPROACH OBSTACLES CONT.
PRIMARY:
10. TERRAIN 355645.00N/1061830.00W 8068 (8100) AS1500 9600

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VECUT **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 354322.24N/1060217.41W **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	SANTA FE	SAF	VORTAC	L	353.83	006.83	11.00	11.00		9000	17500

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	S		WP	176.83	356.83	L		7	11000	14000	10	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	354042.00N/1055315.00W	8678	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 HIGH TERRAIN NORTHEAST OF AIRPORT.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 FOR ARRIVAL HOLDING.
PAT 1 CONTROLLING OBS LOCATED 1.93 NM INTO SECONDARY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V83	1				(US)
IAP	RNAV (GPS) Y RWY 27		1	KLAM	LOS ALAMOS	NM (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED PAT 1.
DELETE FAC 2.
ADDED "DIST FROM FAC" NM.
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 11/29/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (THERON CYRUS)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOBVO **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 354800.58N/1060406.99W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 27			KLAM	LOS ALAMOS	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
04/05/2012 THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/13/2012
1. CHANGED FIX NAME ASHLY TO WOBVO.

DEVELOPED BY: **DATE:** 11/29/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (THERON CYRUS)

APPROVED BY: **DATE:** 03/13/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YUNSU **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 355128.33N/1060849.90W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 27			KLAM	LOS ALAMOS	NM (US)
IAP	RNAV (GPS) Z RWY 27			KLAM	LOS ALAMOS	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
DELETE FAC 1.
UPDATE FIX USE.
FIX MOVED 1620.43 FT.

DEVELOPED BY: **DATE:** 11/29/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (THERON CYRUS)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEDAN **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 360215.74N/1055929.87W **TYPE:** WP, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SANTA FE	SAF	VORTAC	L	353.83	006.83	30.00	30.00		11000	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	N	SAF	VORTAC	353.83	173.83	R	1-1 1/2		11000	17500	11	18
2	N		WP	356.83	176.83	R		7	11000	14000	10	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	360354.00N/1055133.00W	7835	4E
2	230	AAO	360251.00N/1055236.00W	7792	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V83	1				(US)
IAP	RNAV (GPS) Y RWY 27		2	KLAM	LOS ALAMOS	NM (US)
IAP	RNAV (GPS) Z RWY 27		2	KLAM	LOS ALAMOS	NM (US)
IAP	ILS OR LOC RWY 2			KSAF	SANTA FE	NM (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED PAT 2.
MOVED HOLDING LIMITED NOTE FROM REMARKS TO HOLDING RESTRICTIONS.
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 12/07/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (THERON CYRUS)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: SAF ATCT, ABQ APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUTPA **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 355230.16N/1061433.99W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 27			KLAM	LOS ALAMOS	NM (US)
IAP	RNAV (GPS) Z RWY 27			KLAM	LOS ALAMOS	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1.
FIX MOVED 1822.63 FT EAST.
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 11/29/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (THERON CYRUS)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ APP CON
OTHER:

QUALITY 4 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **LOS ALAMOS** STATE: **NM**

AIRPORT NAME: **LOS ALAMOS** ID: **KLAM**

PROCEDURE: **RNAV (GPS) Y RWY 27** AMDT: **1**

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

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

1. Distance from **THLD** to 1000' point **2.90**
   (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 **282.48**
4. High Terrain in **FINAL** segment containing 1000' point **7143**
5. Distance from **THLD** to 1500' point **4.97**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.57**
7. True Course of **FINAL** segment containing 1500' point **282.48**
8. High Terrain in **FINAL** segment containing 1500' point **7143**
9. Threshold Coordinates (if straight-in) ... **355240.49N** / **1061531.67W**
10. ARP Coordinates ..... **355246.87N** / **1061607.27W**
11. Runway Approach End and distance furthest from ARP.....RWY **09**
    Distance **0.49** NM
12. FAF Coordinates ..... **355128.33N** / **1060849.90W**
    (Click to Select)

REMARKS: Approach/Drawing attached. MAP (ZUTPA) LAT/LONG: 355230.16N/1060849.90W