Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 11/08/2010	Task #: 2010110825948101001	Request #: 20101108259481
Procedure: STAR COLTR (RNAV) ONE ALBUQUERQUE NM KABQ		Airport ID: KABQ	Airport: ALBUQUERQUE INTL SUNPORT		Reimbursable #:
City: ALBUQUERQUE	ST: NM	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID:	Fac. Type: Proc D	Specialist: STEPHEN PETERSON			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/07/2012	09/13/2012	JILL OLSON	
QA:	09/13/2012	09/13/2012	SCOTT BEARD	
Liaison:	09/13/2012		Spurlin	REPLACEMENT 9/13/12 - DME/DME - WAIVER

P1

DME / DME

ESV REQUEST INCLUDED

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

pg 1 of 5

ALBUQUERQUE, NM ALBUQUERQUE INTL SUNPORT (KABQ) COLTR ONE (RNAV) (STAR) ENROUTE-YES FC: 11.13.12 PUB: 1.10.13

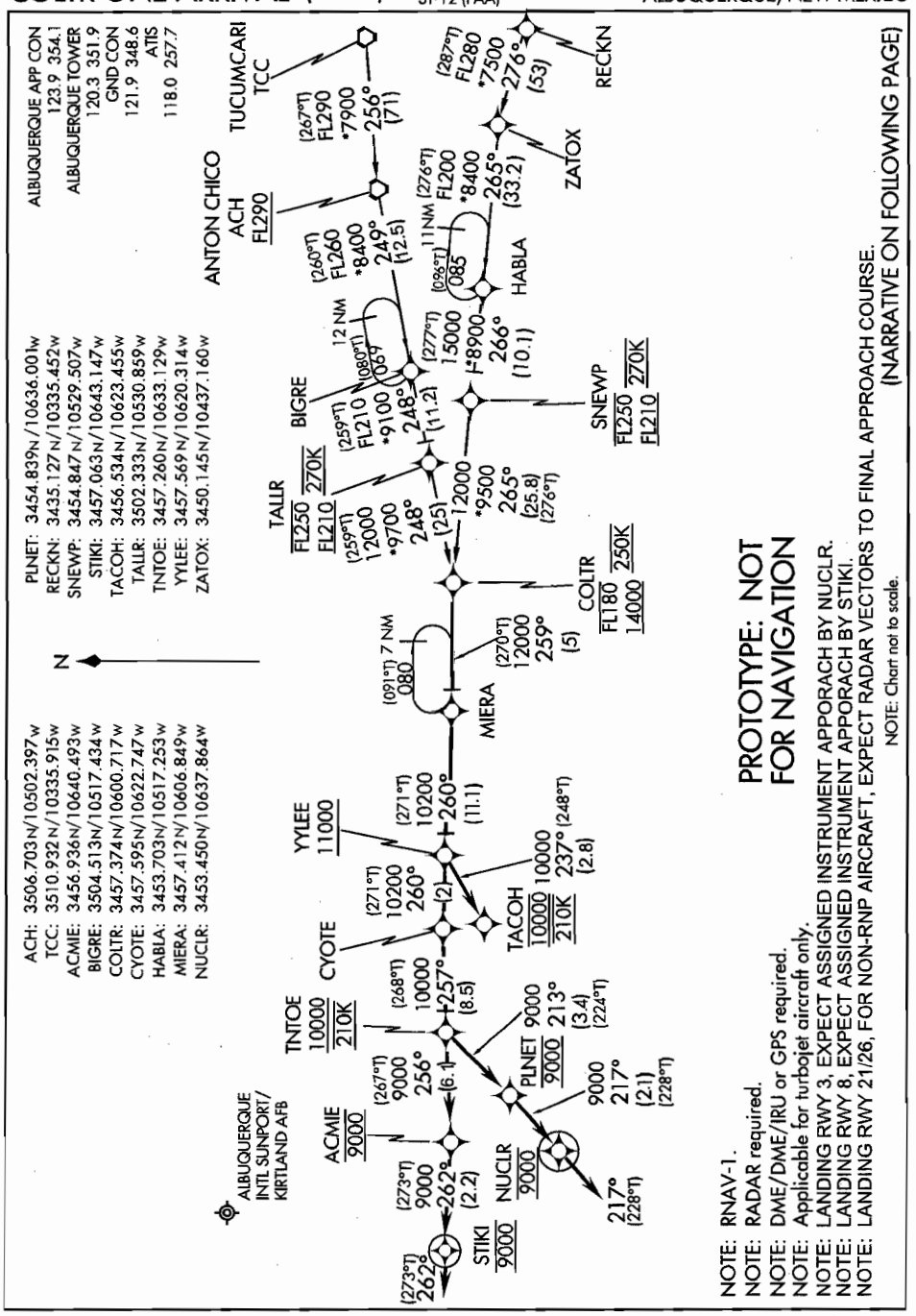
ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): ACMIE, REV 1; ANTON CHICO (ACH) VTAC, REV 2; BIGRE, ORIG; COLTR, ORIG; CYOTE-INT, REV 5; HABLA, ORIG; MIERA-INT, REV 2; NUCLR, ORIG; PLNET, REV 1; RECKN, ORIG; SNEWP, ORIG; STIKI, ORIG; TACOH, REV 1; TALLR, ORIG; TNTOE, REV 1; TUCUMCARI (TCC) VTAC, REV 10; YYLEE, ORIG; ZATOX, ORIG

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

COLTR ONE ARRIVAL (RNAV)

ST-12 (FAA)

ALBUQUERQUE, NEW MEXICO



NOTE: RNAV-1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: Applicable for turbojet aircraft only.
NOTE: LANDING RWY 3, EXPECT ASSIGNED INSTRUMENT APPORACH BY NUCLR.
NOTE: LANDING RWY 8, EXPECT ASSIGNED INSTRUMENT APPORACH BY STIKI.
NOTE: LANDING RWY 21/26, FOR NON-RNP AIRCRAFT, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

COLTR ONE ARRIVAL (RNAV)

ALBUQUERQUE, NEW MEXICO

(COLTR.COLTR1) FIG

ARRIVAL ROUTE DESCRIPTION

RECKN TRANSITION (RECKN.COLTR1)
TUCUMCARI TRANSITION (TCC.COLTR1)

LANDING RWY 03: From over COLTR on track 259° to MIERA, then on track 260° to cross YYLEE at or above 11000, then on track 260° to CYOTE, then on track 257° to cross TNTOE at or above 10000 at 210K, then on track 213° to cross PLNET at 9000, then on track 217° to cross NUCLR at 9000, **then depart NUCLR on track 217°, expect radar vectors to final approach course.**

LANDING RWY 08: From over COLTR on track 259° to MIERA, then on track 260° to cross YYLEE at or above 11000, then on track 260° to CYOTE, then on track 257° to cross TNTOE at or above 10000 at 210K, then on track 256° to cross ACMIE at 9000, then on track 262° to cross STIKI at 9000, **then depart STIKI on track 262°, expect radar vectors to final approach course.**

LANDING RWYS 21/26: From over COLTR on track 259° to MIERA, then on track 260° to cross YYLEE at or above 11000, then on track 237° to cross TACOH at 10000. **Expect RNAV (RNP) approach.**

LOST COMMUNICATIONS: Standard

PROTOTYPE: NOT FOR NAVIGATION

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish

Facility Data

Chart Name : ANTON CHICO	City : ANTON CHICO	Ident : ACH	State : NM
Type/Class : TACR	Frequency : M1212	Reference No.: 11065589	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 870325-010	236	253	55	100	230

Requirement: ESTABLISH A RNAV ESV FOR THE COLTR STAR INTO ABQ.

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 06/15/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870325-010	236	253	55	100	230	APPROVE

Requirement/Remarks: ESTABLISH A RNAV ESV FOR THE COLTR STAR INTO ABQ.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: mai kimberly	Routing Symbol:	Date: 06/15/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870325-010	236	253	55	100	230	APPROVE

Requirement/Remarks: ESTABLISH A RNAV ESV FOR THE COLTR STAR INTO ABQ.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/20/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870325-010	236	253				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ALBUQUERQUE	City : ALBUQUERQUE	Ident : ABQ	State : NM
Type/Class : TACR	Frequency : M1166	Reference No.: 12075101	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704131-038	75	96	53	100	230

Requirement: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ

Signature: Peterson Stephen	Routing Symbol: AJV-353	Date: 07/24/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704131-038	75	96	53	100	230	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: mai kimberly	Routing Symbol:	Date: 08/02/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704131-038	75	96	53	100	230	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 08/03/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704131-038	75	96				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number	Request Type : Establish	
Facility Data			
Chart Name CORONA	City : CORONA	Ident : CNX	State : NM
Type/Class : TACR	Frequency : M1189	Reference No : 11055205	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 850151-019	307	349	46	100	300

Requirement: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ.

Signature: Mallett Gary	Routing Symbol: AJVJ-C2	Date 05/09/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 850151-019	307	349	46	100	300	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Meza Michael	Routing Symbol:	Date: 05/09/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 850151-019	307	349	46	100	300	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/10/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 850151-019	307	349				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SOCORRO	City : SOCORRO	Ident : ONM	State : NM
Type/Class : TACR	Frequency : M1202	Reference No.: 11055204	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698219-021	347	50	70	80	150

Requirement: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 05/09/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698219-021	347	50	70	80	150	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Meza Michael	Routing Symbol:	Date: 05/10/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698219-021	347	50	70	80	150	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/10/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698219-021	347	50				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SANTA FE	City : SANTA FE	Ident : SAF	State : NM
Type/Class : TACR	Frequency : M1004	Reference No.: 11065591	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 694086-008	145	167	45	100	230

Requirement: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ.

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 06/15/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 694086-008	145	167	45	100	230	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: mai kimberly	Routing Symbol:	Date: 06/15/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 694086-008	145	167	45	100	230	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR COLTR INTO ABQ.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

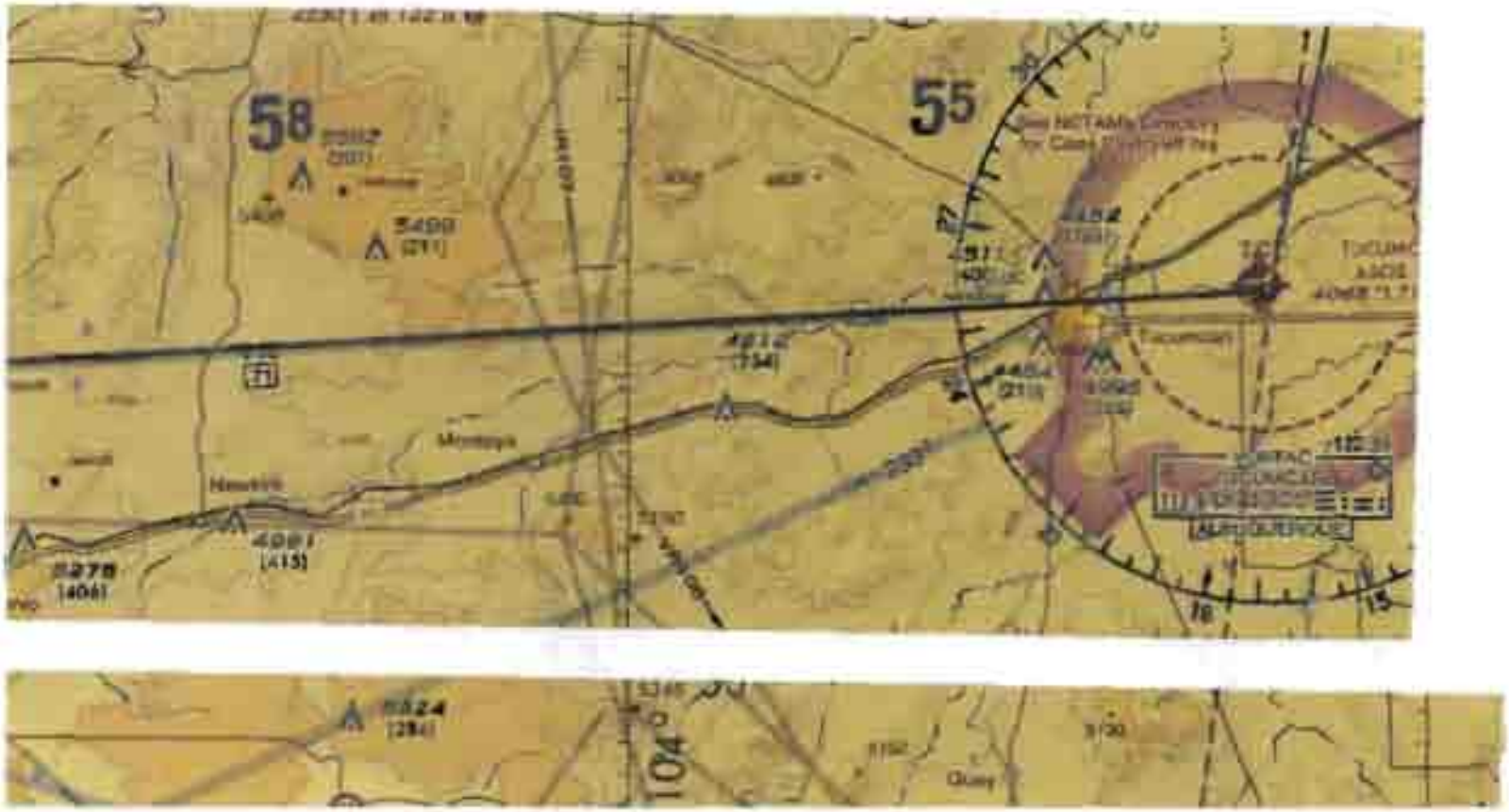
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/20/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 694086-008	145	167				

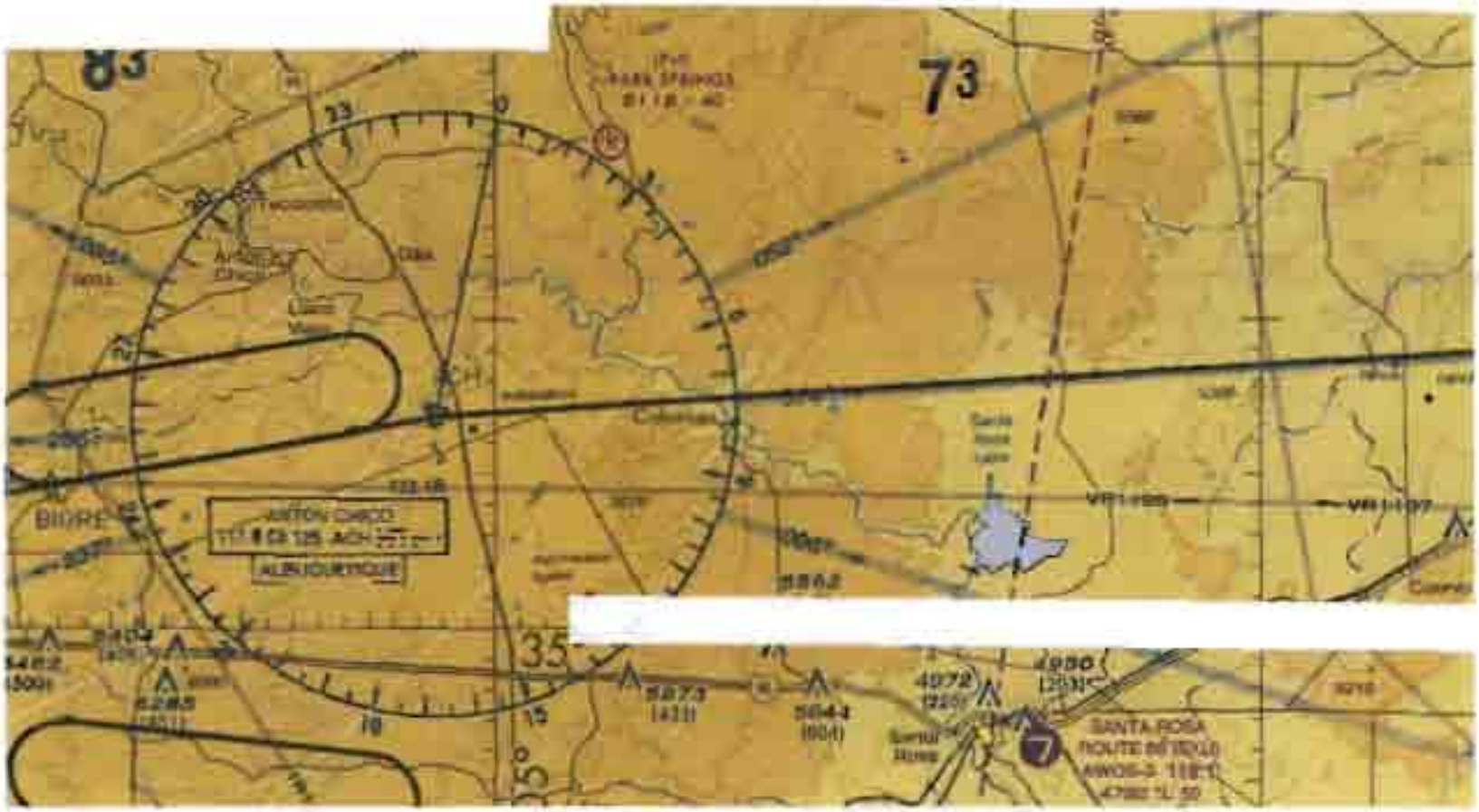
Requirement/Remarks:

Signature:	Routing Symbol:	Date:



COLTR RNAV ARRIVAL

Created : Thu Aug 30 08:28:37 CDT 2012 TARGETS 4.8 (April 5, 2012)



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Created : Thu Aug 30 08:28:37 CDT 2012 TARGETS 4.8 (April 5, 2012)

COLTR RNAV ARRIVAL

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COLTR RNAV ARRIVAL

Created : Thu Aug 30 08:28:38 CDT 2012 TARGETS 4.8 (April 5, 2012)

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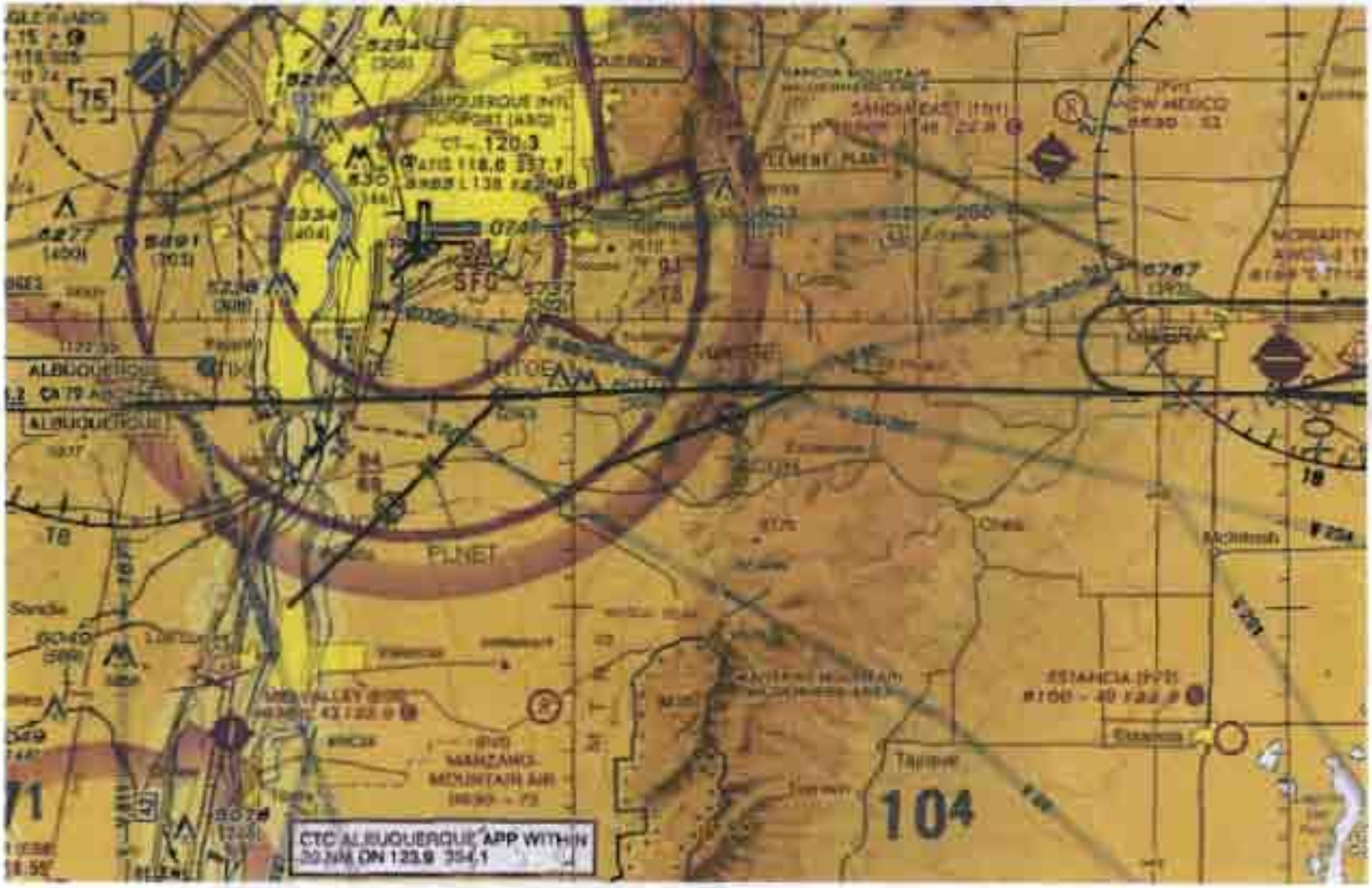

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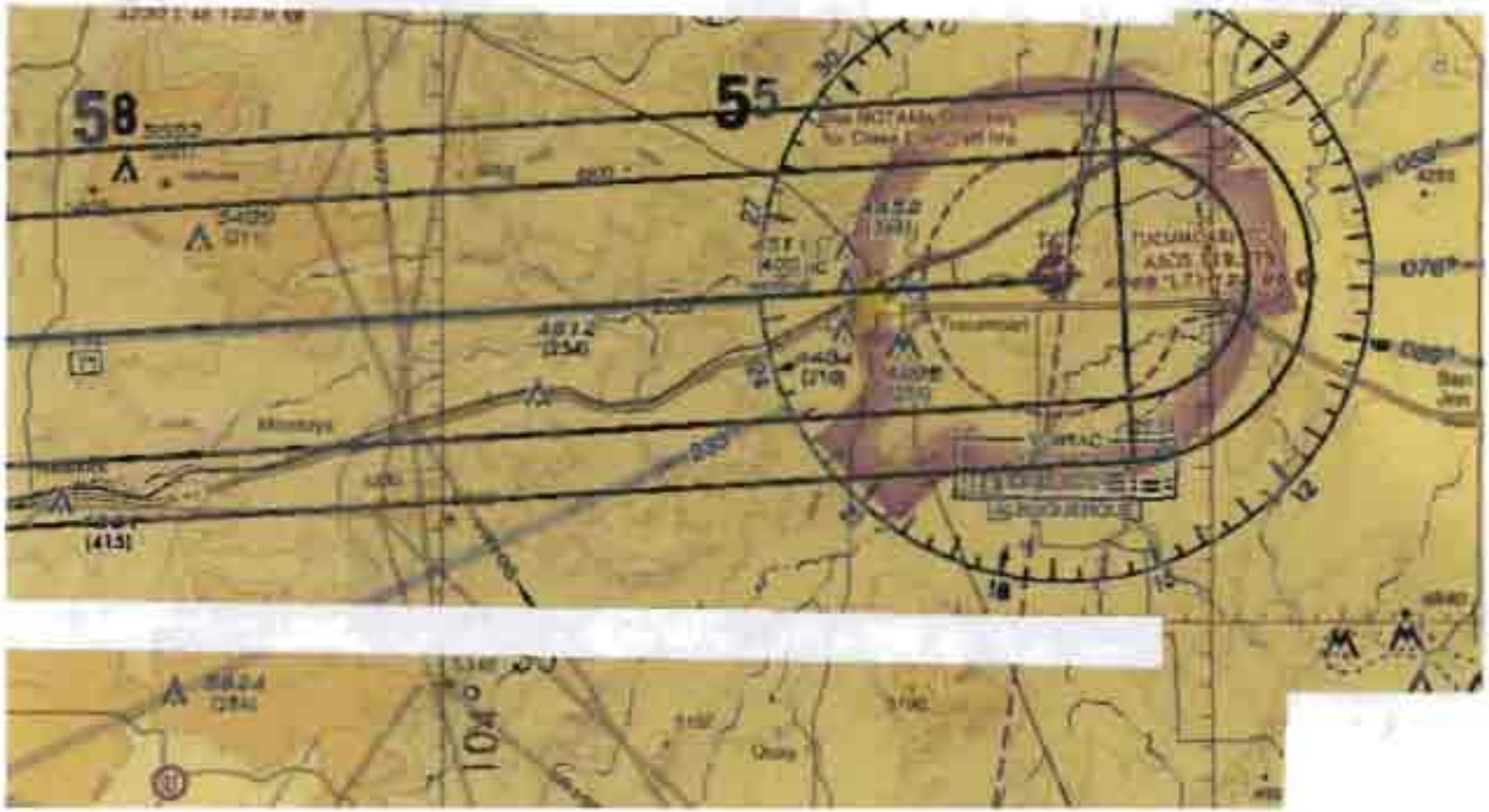

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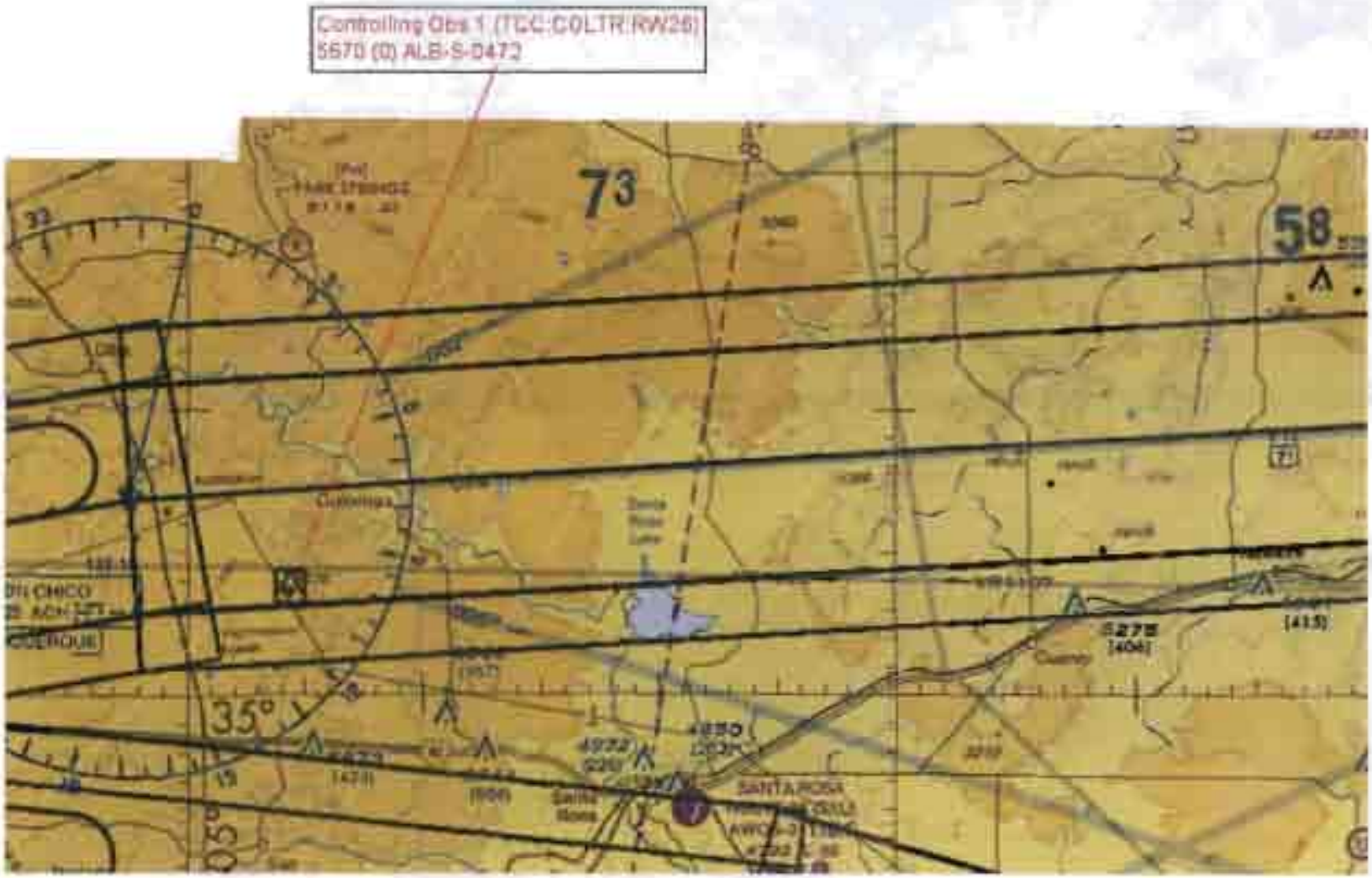

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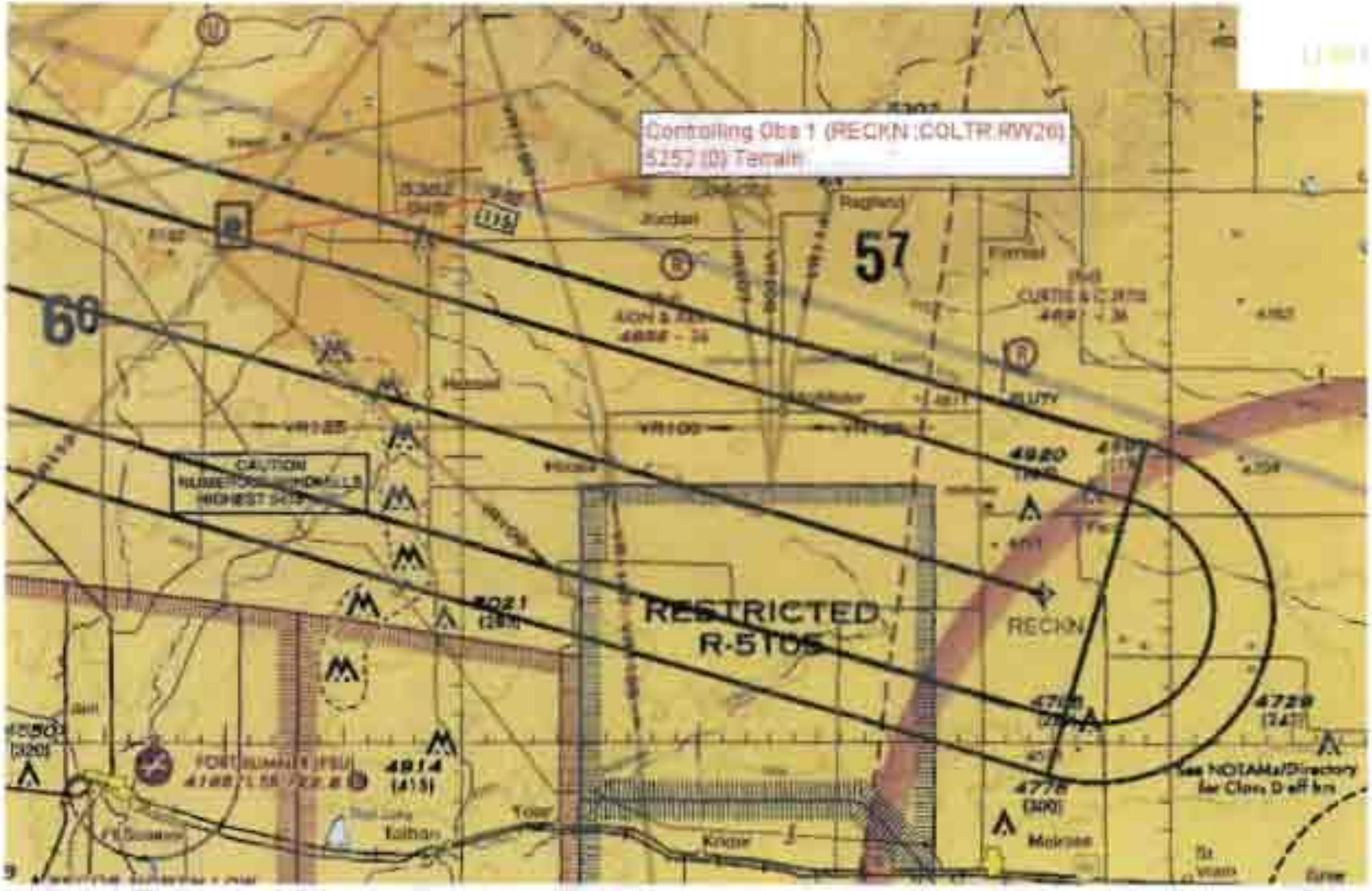

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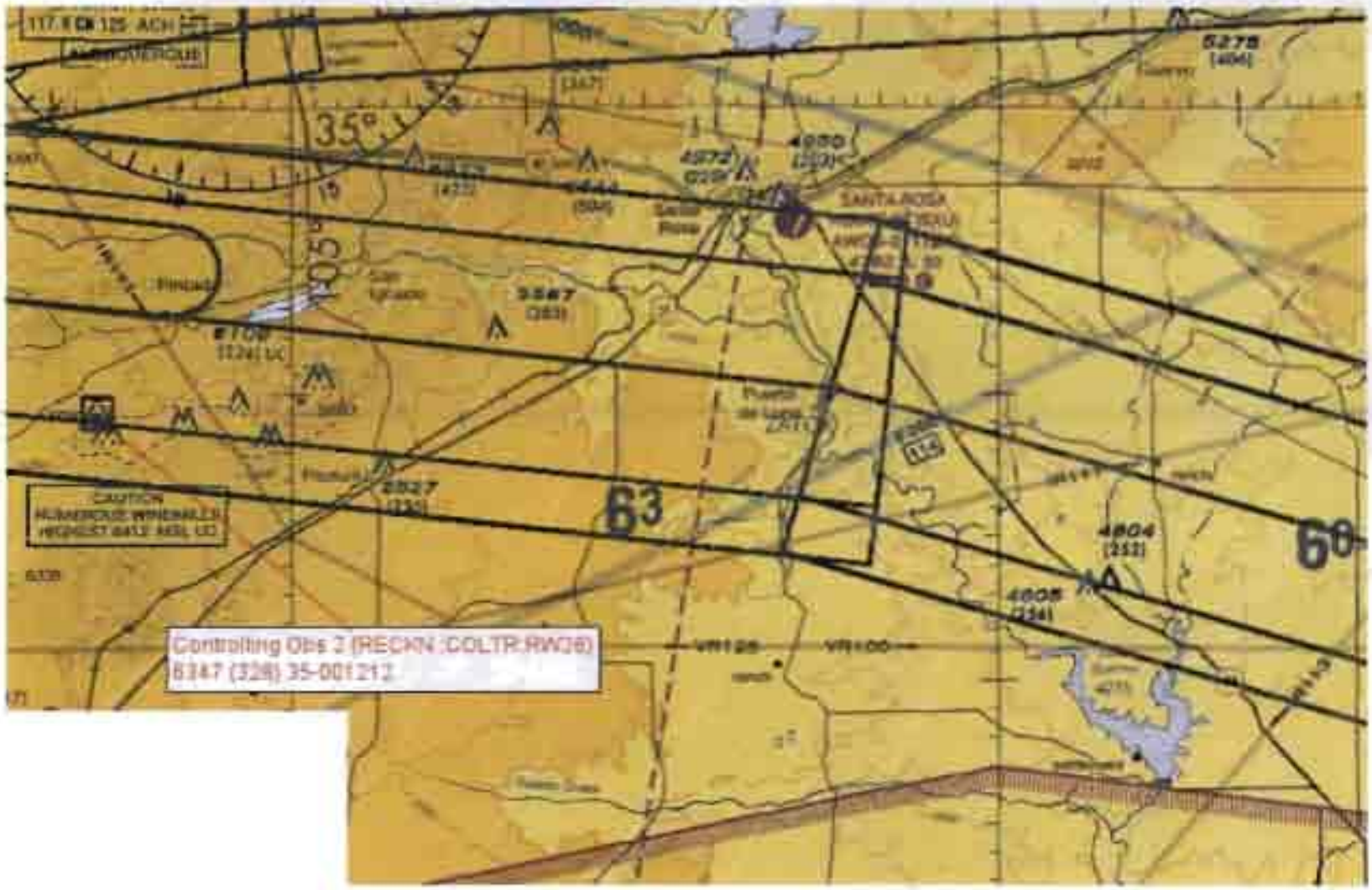

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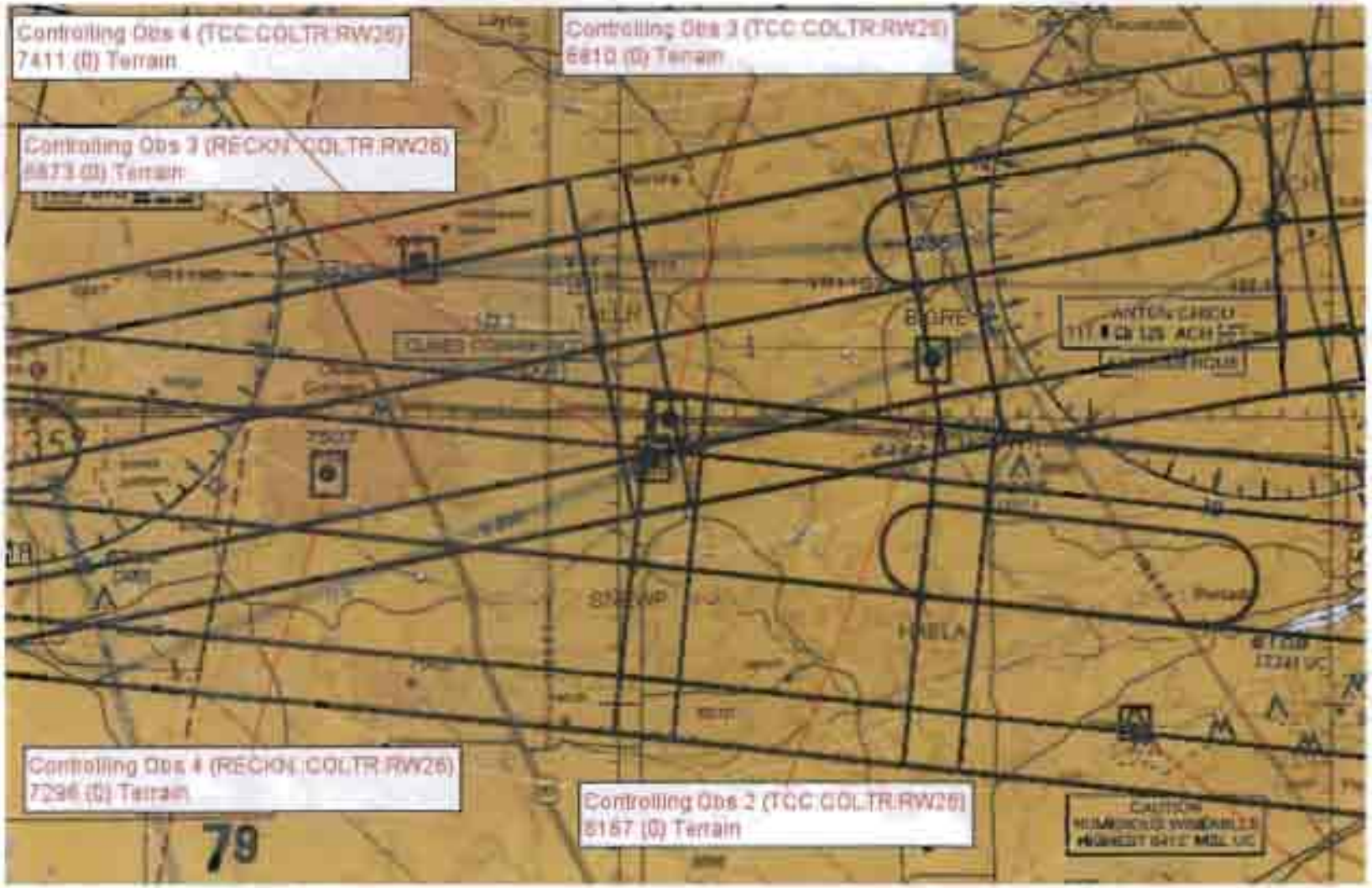

COLTR RNAV ARRIVAL

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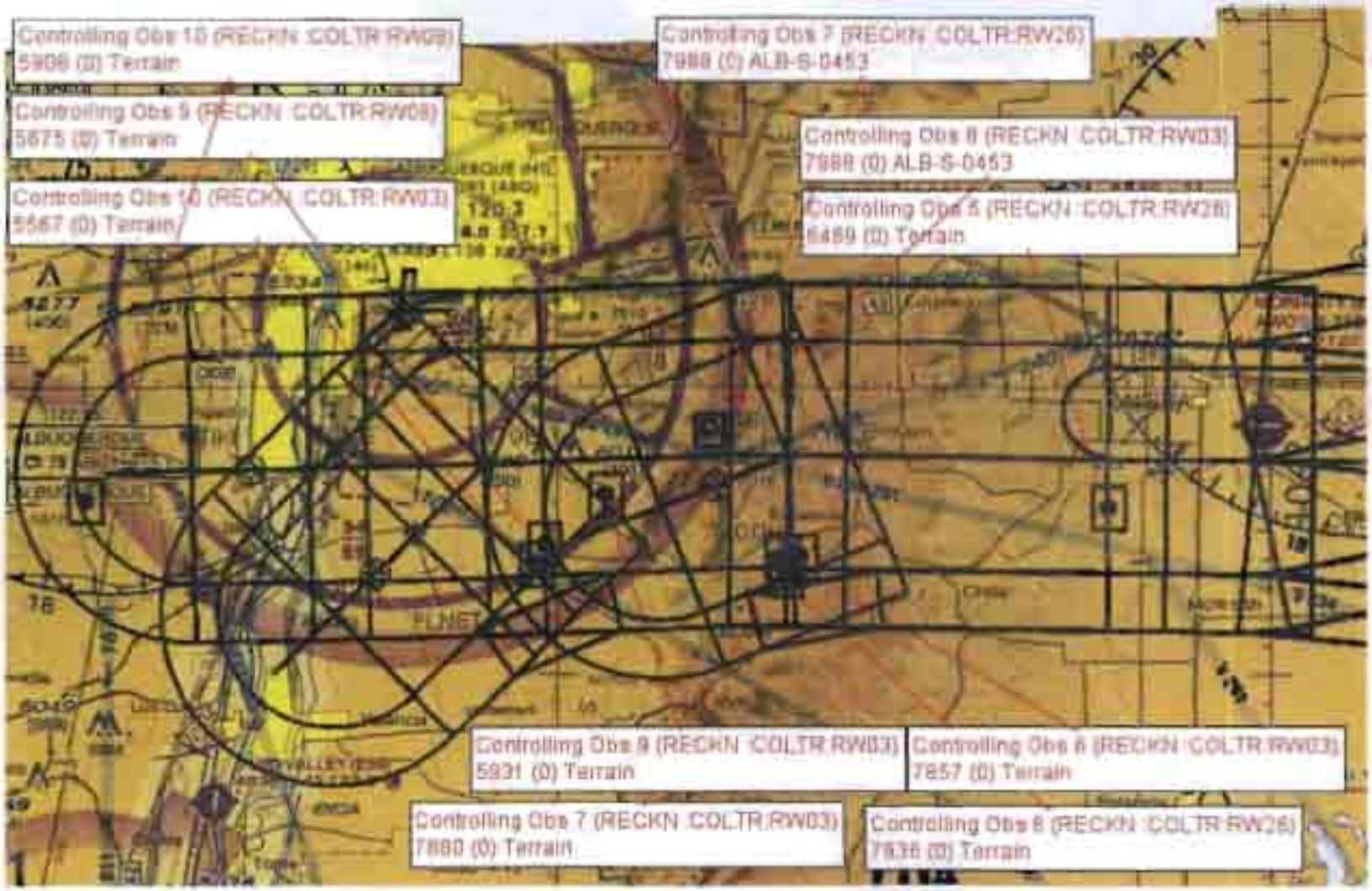


COLTR RNAV ARRIVAL

Created: Thu Aug 30 08:28:39 CDT 2012 TARGETS 4.8 (April 5, 2012)

US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

1. Bearings, headings, courses and radials are listed to the nearest hundredth (e.g. 360.00)
2. Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3. Altitudes are minimum altitudes unless otherwise indicated

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
RECKN	RECKN .COLTR1	RECKN	ZATOX	275.71/53.04	FL280	7500		
			HABLA	265.34/33.18	FL200	8400		
			SNEWP	265.52/10.14	15000	8900		+FL210/-FL250
			COLTR	264.76/25.78	12000	9500		+14000/-FL180
TUCUMCARI	TCC.COLTR1	TCC VORTAC	ACH VORTAC	256.01/71.04	FL290	7900		+FL290
			BIGRE	249.02/12.53	FL260	8400		
			TALLR	247.89/11.23	FL210	9100		+FL210/-FL250
			COLTR	247.73/25.02	12000	9700		+14000/-FL180

(2) Arrival Route Description: LANDING RWY 03: FROM OVER COLTR ON TRACK 259.47/5.04 TO MIERA (MEA 12000), THEN ON TRACK 259.87/11.07 TO CROSS YYLEE AT OR ABOVE 11000 (MEA 10200), THEN ON TRACK 259.75/02.00 TO CYOTE (MEA 10200), THEN ON TRACK 256.81/08.54 TO CROSS TNTOE AT OR ABOVE 10000 AT 210 KTS (MEA 10000), THEN ON TRACK 213.35/03.38 TO CROSS PLNET AT 9000 (MEA 9000), THEN ON TRACK 216.85/02.07 TO CROSS NUCLR AT 9000 (MEA 7800), THEN DEPART NUCLR ON TRACK 216.85, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.
LANDING RWY 08: FROM OVER COLTR ON TRACK 259.47/5.04 TO MIERA (MEA 12000), THEN ON TRACK 259.87/11.07 TO CROSS YYLEE AT OR ABOVE 11000 (MEA 10200), THEN ON TRACK 259.75/02.00 TO CYOTE (MEA 10200), THEN ON TRACK 256.81/08.54 TO CROSS TNTOE AT OR ABOVE 10000 AT 210KTS (MEA 10000), THEN
Continued on block 16...

(3) Procedural Data Notes: CROSS SNEWP AT 270 KTS. CROSS TALLR AT 270 KTS. CROSS COLTR AT 250 KTS.
NOTE: RADAR REQUIRED.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: CHART NOT TO SCALE.
NOTE: APPLICABLE FOR TURBOJET AIRCRAFT ONLY.
NOTE: LANDING RWY 3, EXPECT ASSIGNED INSTRUMENT APPROACH BY NUCLR.
NOTE: LANDING RWY 8, EXPECT ASSIGNED INSTRUMENT APPROACH BY STIKI.
NOTE: LANDING RWY 21/26, FOR NON-RNP AIRCRAFT, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(4) Fixes and/or Holding Patterns: CHART HOLDING AT BIGRE, HOLD E, RT, 249.02 INBOUND, 12 N LEGS.
CHART HOLDING AT HABLA, HOLD E, RT, 265.34 INBOUND, 11 NM LEGS.
CHART HOLDING AT MIERA, HOLD E, RT, 259.47 INBOUND, 7 NM LEGS.

(5) Communications: ABQ ARTCC, ABQ APP CON, ABQ ATIS.

QUALITY 4 CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

FAA Form 7100-4 (7/02)

(12) Airports Served	
Airport Name ALBUQUERQUE INTL SUNPORT	City/State ALBUQUERQUE, NM
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State

(13) Lost Communications Procedure: STANDARD

(14) Remarks: REFERENCE MAGNETIC VARIATION = KABQ 11E/1995

ABQ TRACON REQUESTING ROC WAIVER AT TNTOE WP AND TACOH WP TO ESTABLISH MEA AT 10,000. WAIVER PACKAGE TO FOLLOW.

(15) Additional Flight Data: (DO NOT CHART) DME/DME ASSESSMENT: SAT (RNP 2.0)

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

(16) Continuation:

(2) Arrival Route Description:
ON TRACK 255.98/6.06 TO CROSS ACMIE AT 9000 (MEA 8200), THEN ON TRACK 262.33/02.19 TO CROSS STIKI AT 9000 (MEA 8200), THEN DEPART STIKI ON TRACK 262.33, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.
LANDING RWYS 21/26: FROM OVER COLTR ON TRACK 259.47/5.04 TO MIERA (MEA 12000), THEN ON TRACK 259.87/11.07 TO CROSS YYLEE AT OR ABOVE 11000 (MEA 10200), THEN ON TRACK 237.21/02.78 TO TACOH CROSS TACOH AT 10000 AT 210 KTS (MEA 10000). EXPECT RNAV (RNP) APPROACH.

(17) Changes:

(18) Reasons for Changes:
8/28/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 4/5/2012.
1. CHANGED RWY 21/26 TRANSITION FROM EXPECTING RADAR VECTORS TO EXPECTING RNAV (RNP) APPROACH.
2. CHANGED LANDING RWY 21/26 NOTE FROM EXPECTING ASSIGNED INSTRUMENT APPROACH TO NON-RNP AIRCRAFT EXPECTING RADAR VECTORS TO FINAL COURSE.

10/30/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 4/5/2012.
1. CHANGED MIERA HOLDING PATTERN TURN DIRECTION FROM LT TO RT.
2. ADDED SPEED RESTRICTION TO CROSSING TACOH.

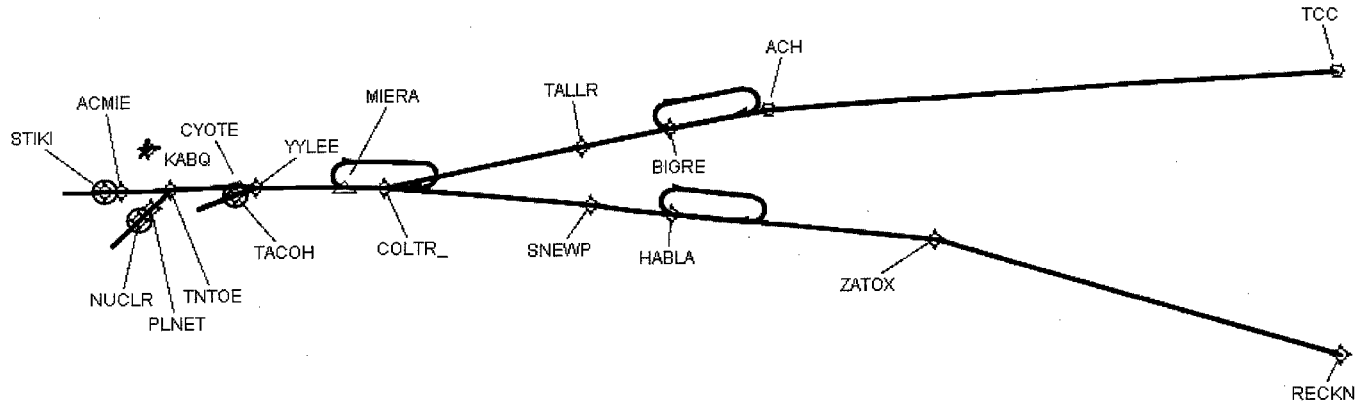
		Name (Typed and Signed), Title and Organization	DATE
Developed By		Leoni Sanmiguel, Support Manager, Airspace & Procedures, Albuquerque ARTCC	4/5/2012
Approved	NFPG		
	Reg. ATD		

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

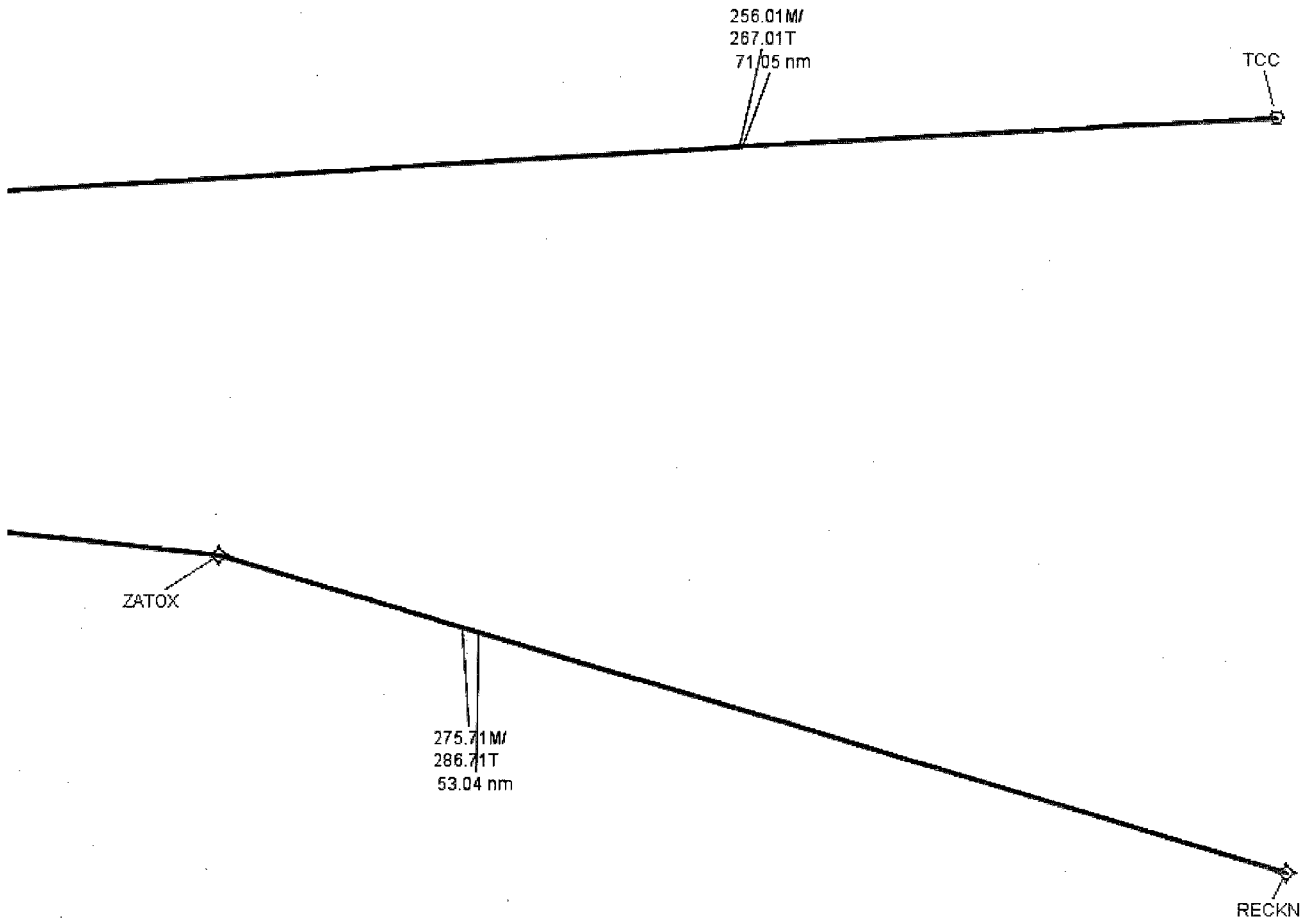
FAA Form 7100-4 (7/02)

(19) Graphic Depiction (1 of 16)



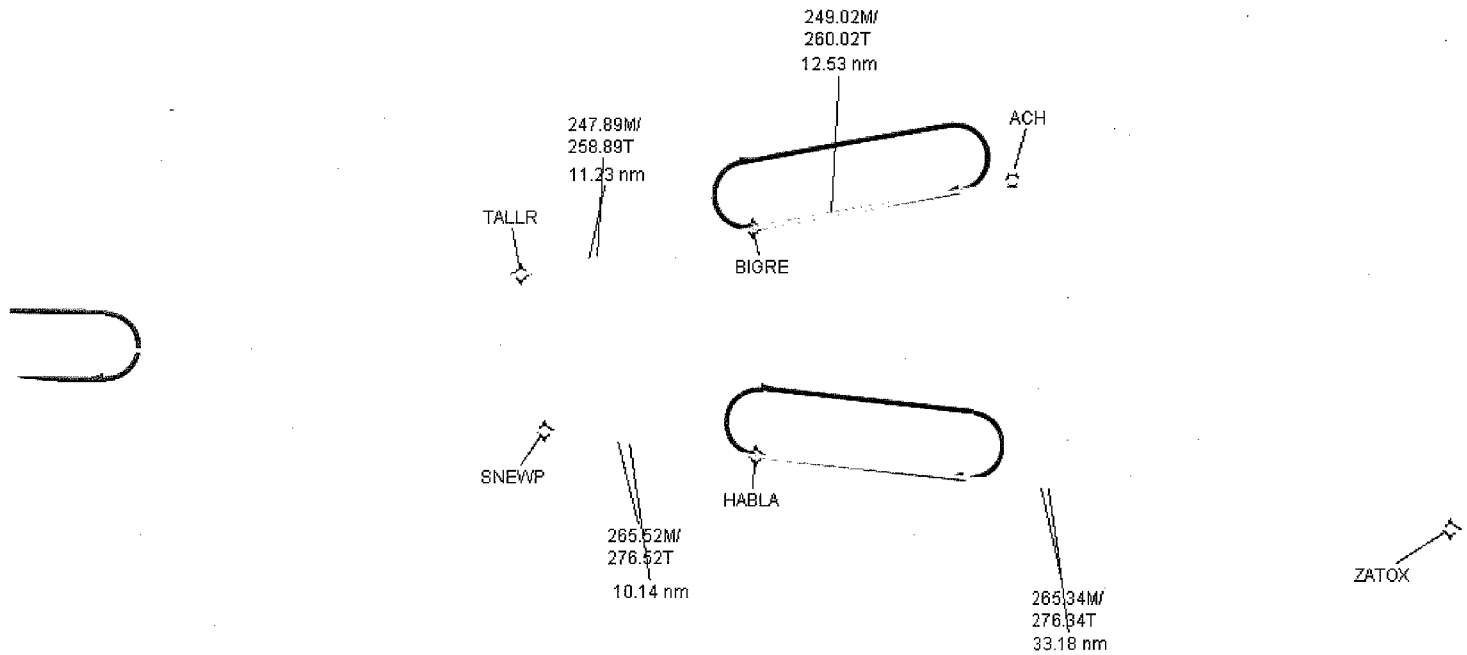
QUALITY 4 CHECK

(19) Graphic Depiction (2 of 16)



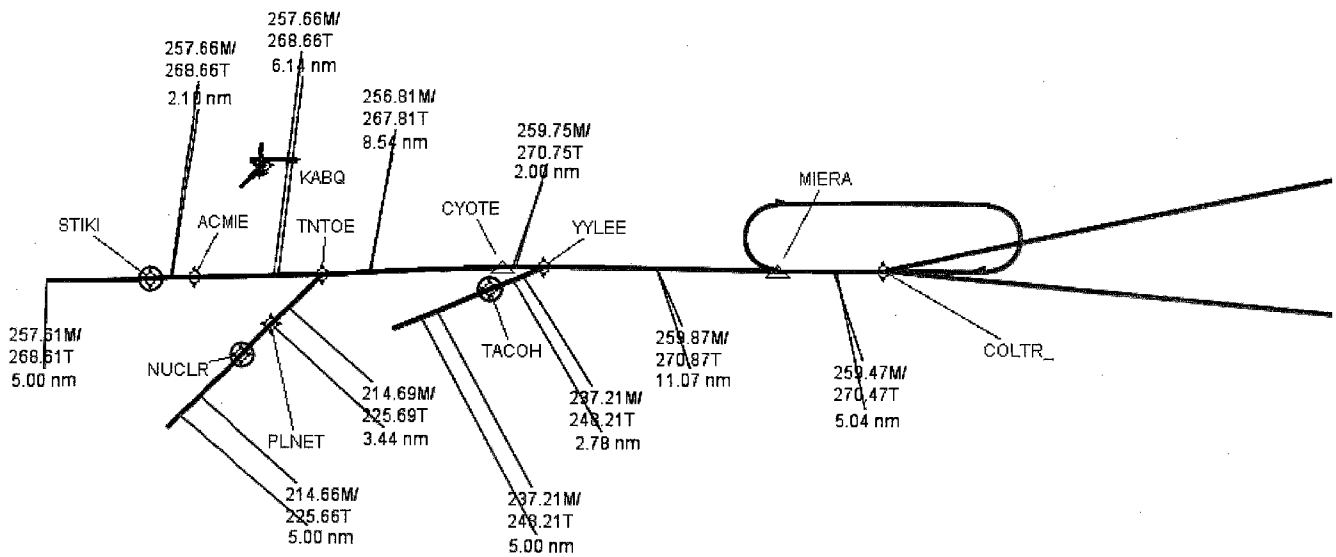
QUALITY CHECKED

(19) Graphic Depiction (3 of 16)

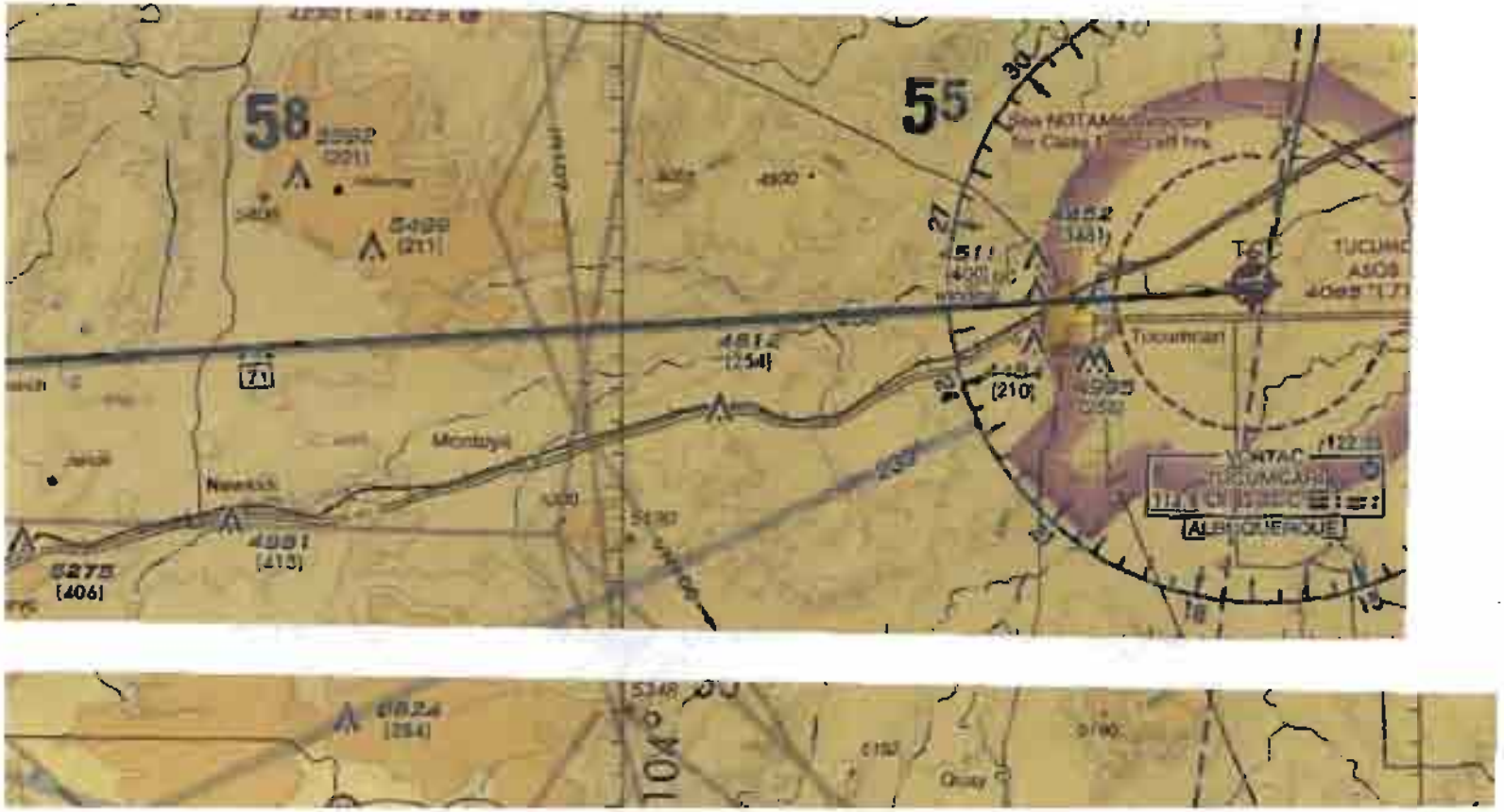


ORIGINAL
4
CHECKED

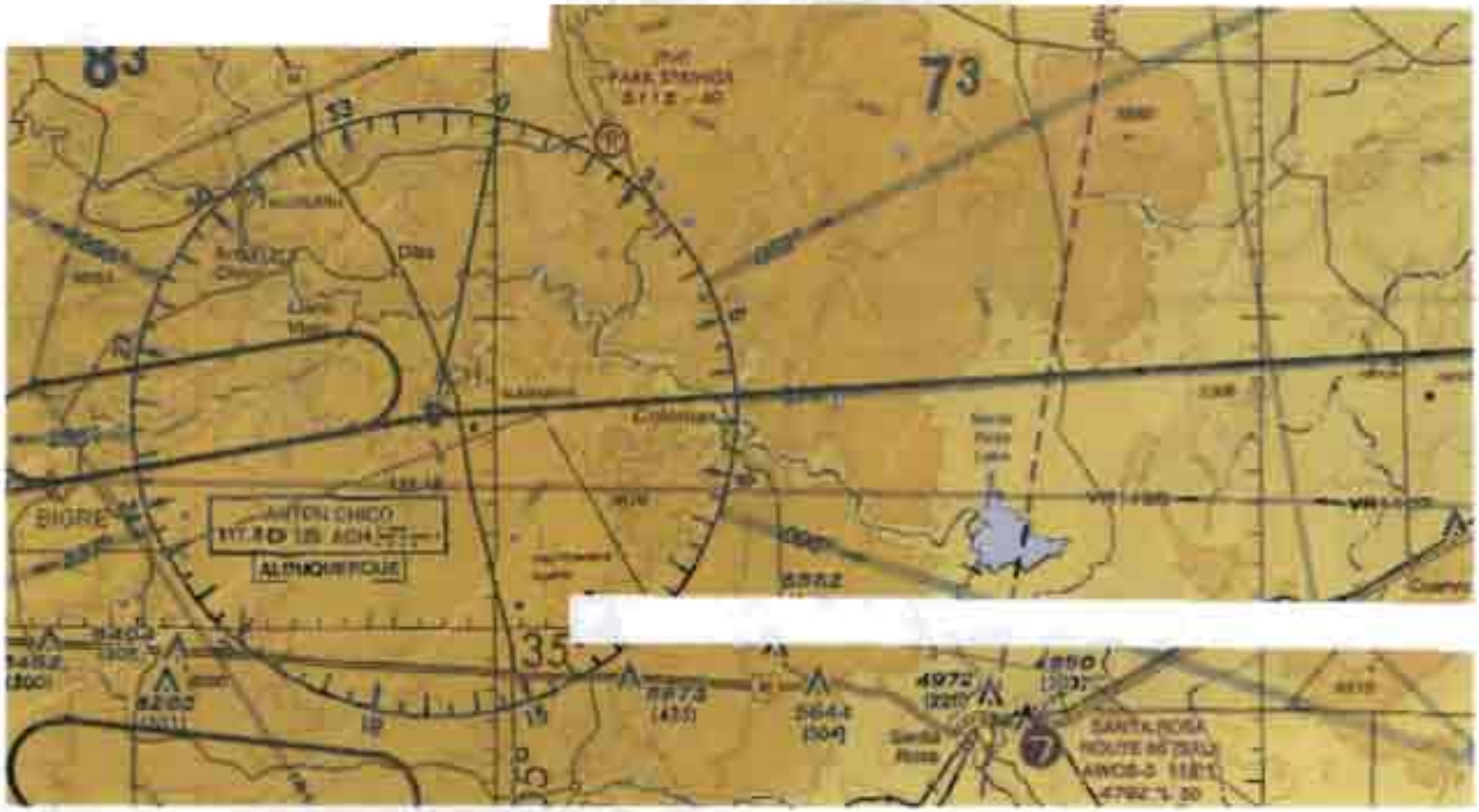
(19) Graphic Depiction (4 of 16)



(19) Graphic Depiction (5 of 16)



(19) Graphic Depiction (6 of 16)

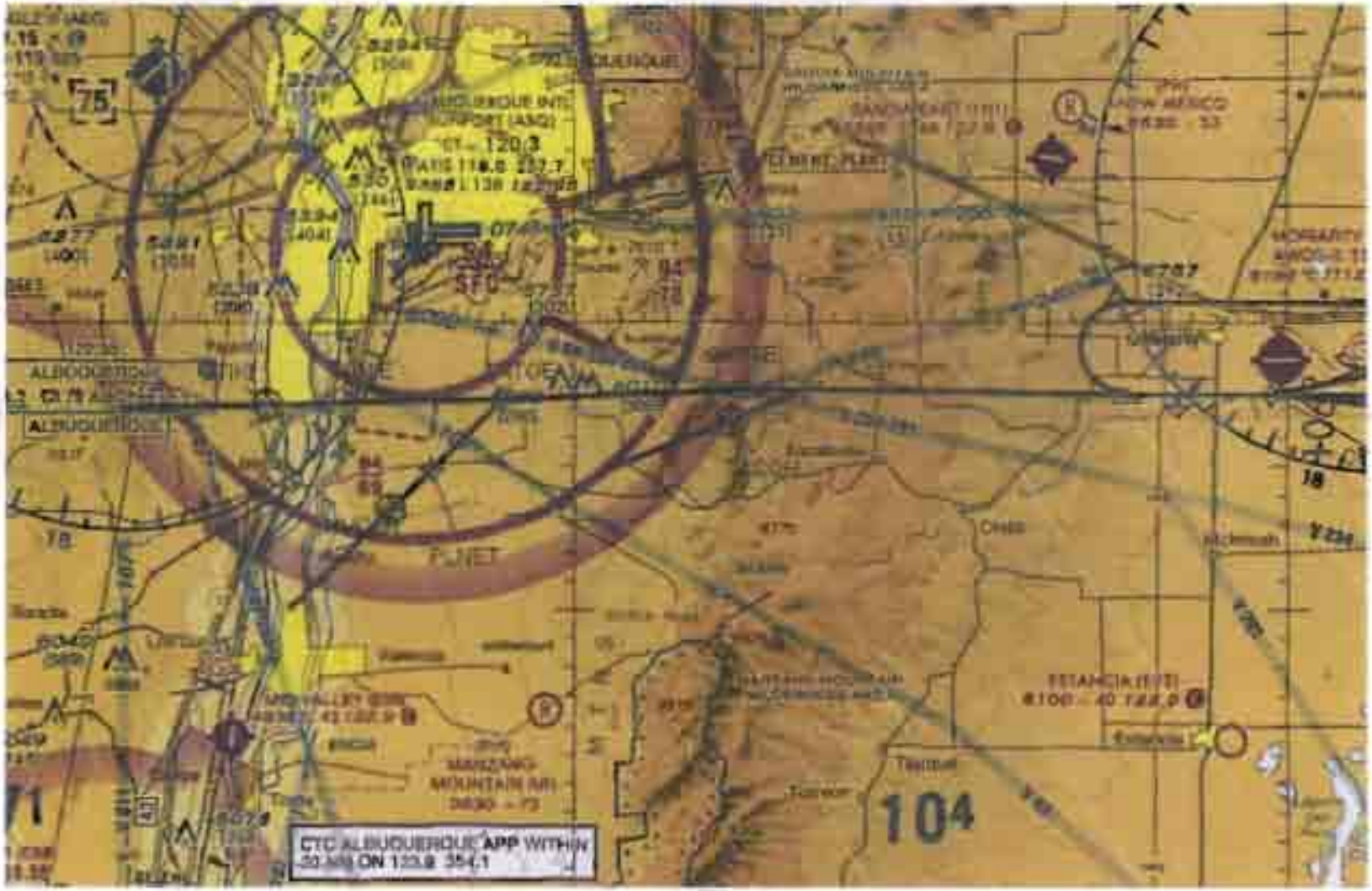


(19) Graphic Depiction (7 of 16)

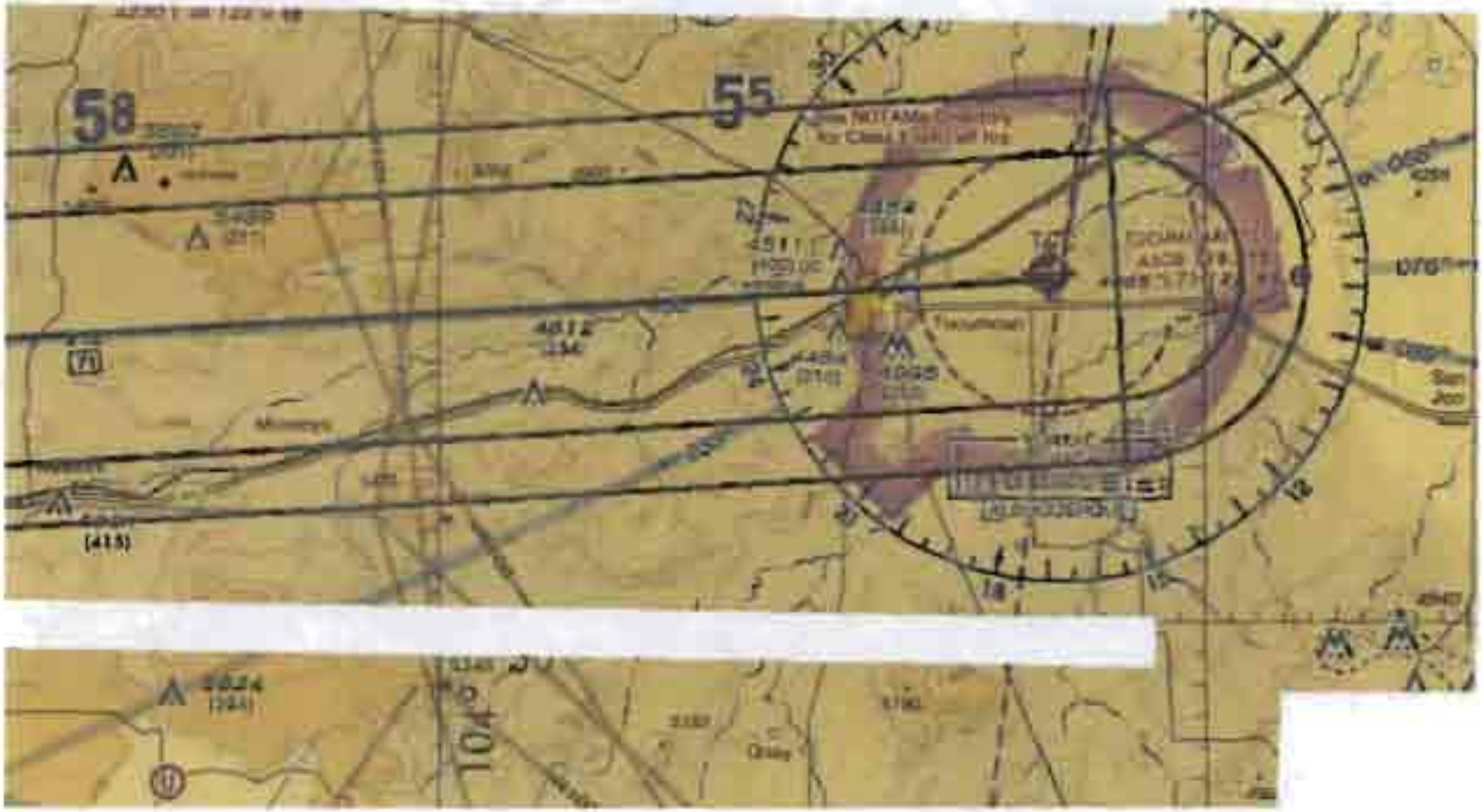
(19) Graphic Depiction (8 of 16)

(19) Graphic Depiction (9 of 16)

(19) Graphic Depiction (10 of 16)

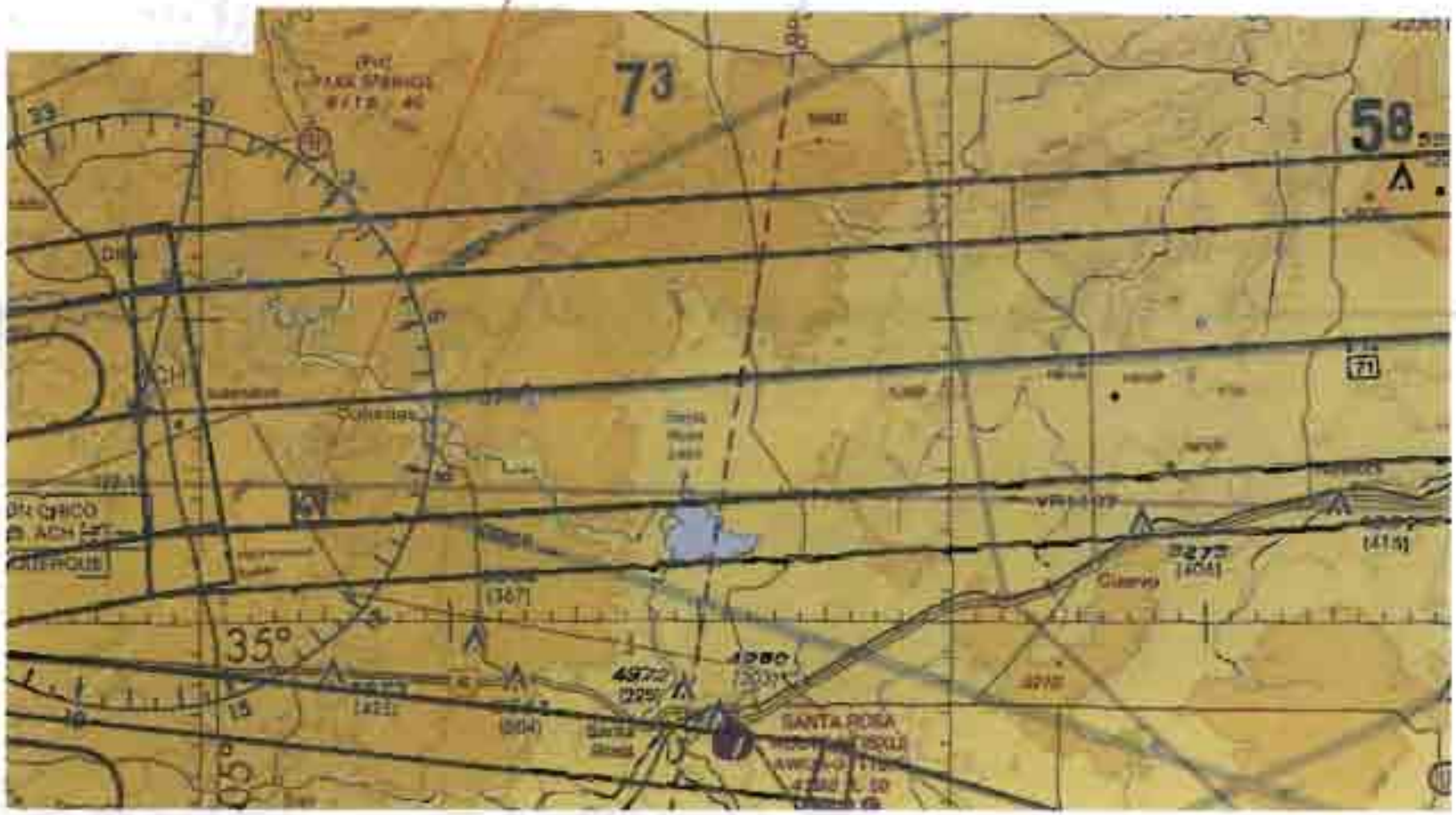


(19) Graphic Depiction (11 of 16)

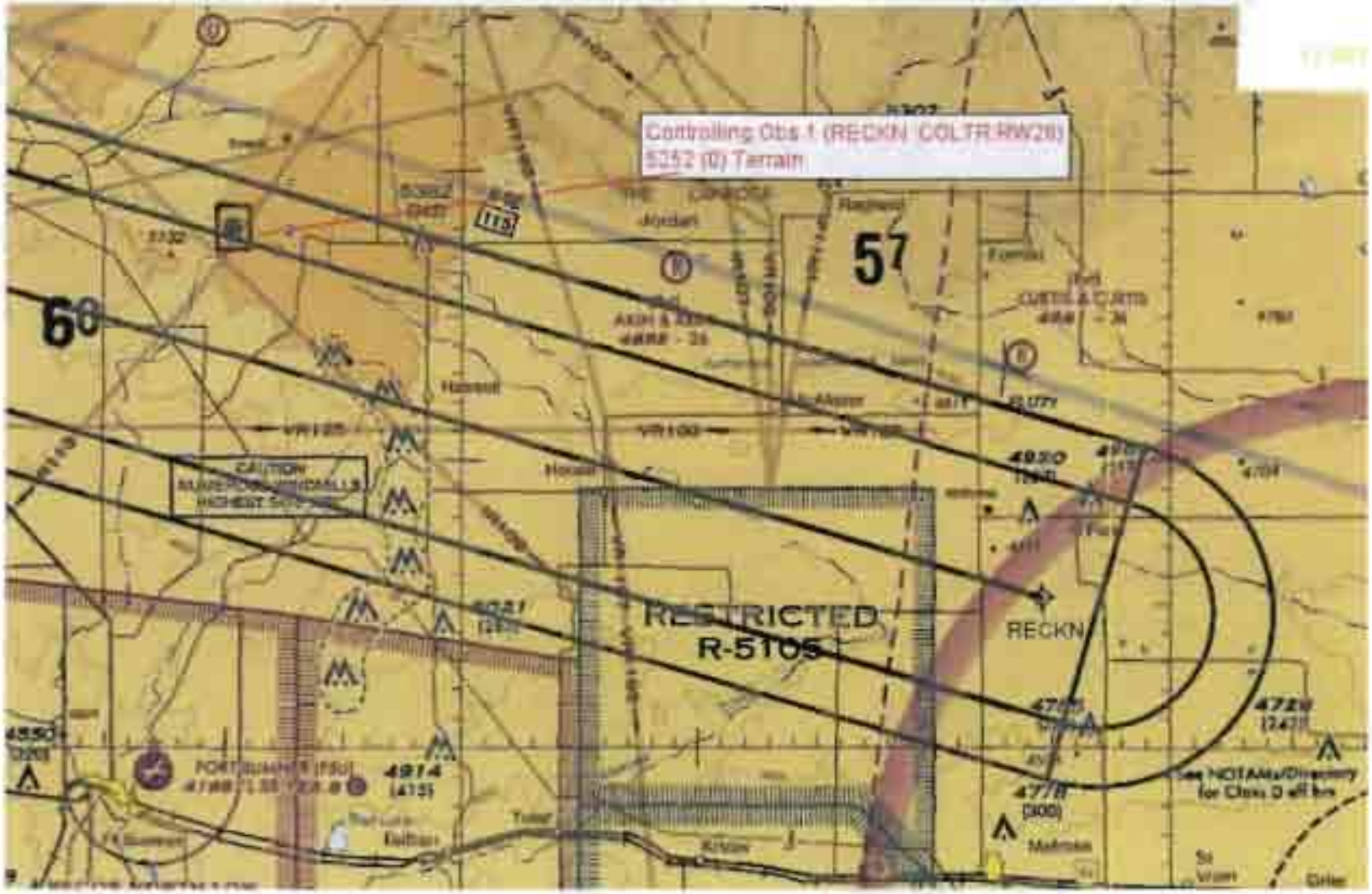


(19) Graphic Depiction (12 of 16)

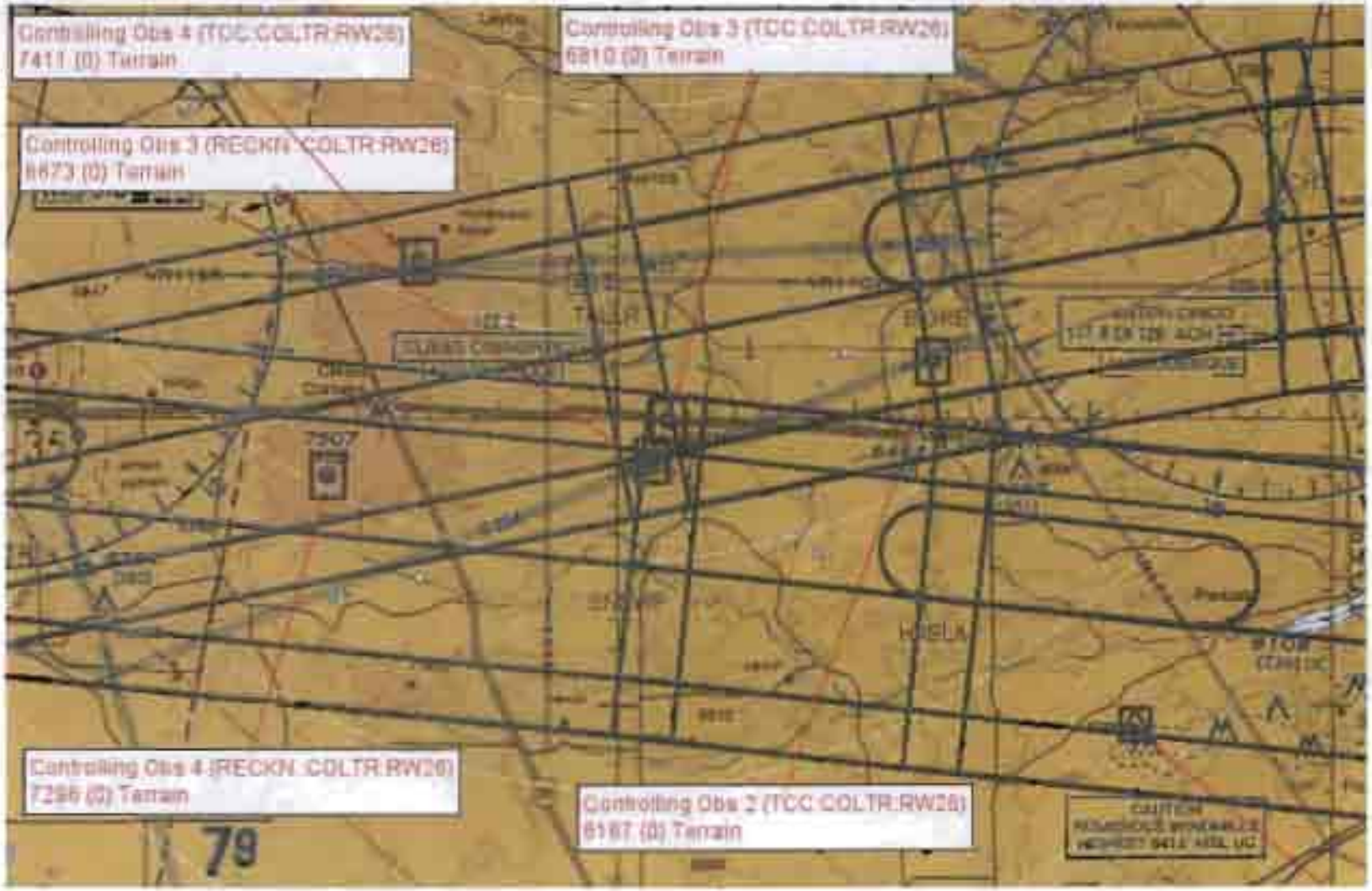
Controlling Obs 1 (TCC COLTR RW26)
5670 (0) ALB-S-0472



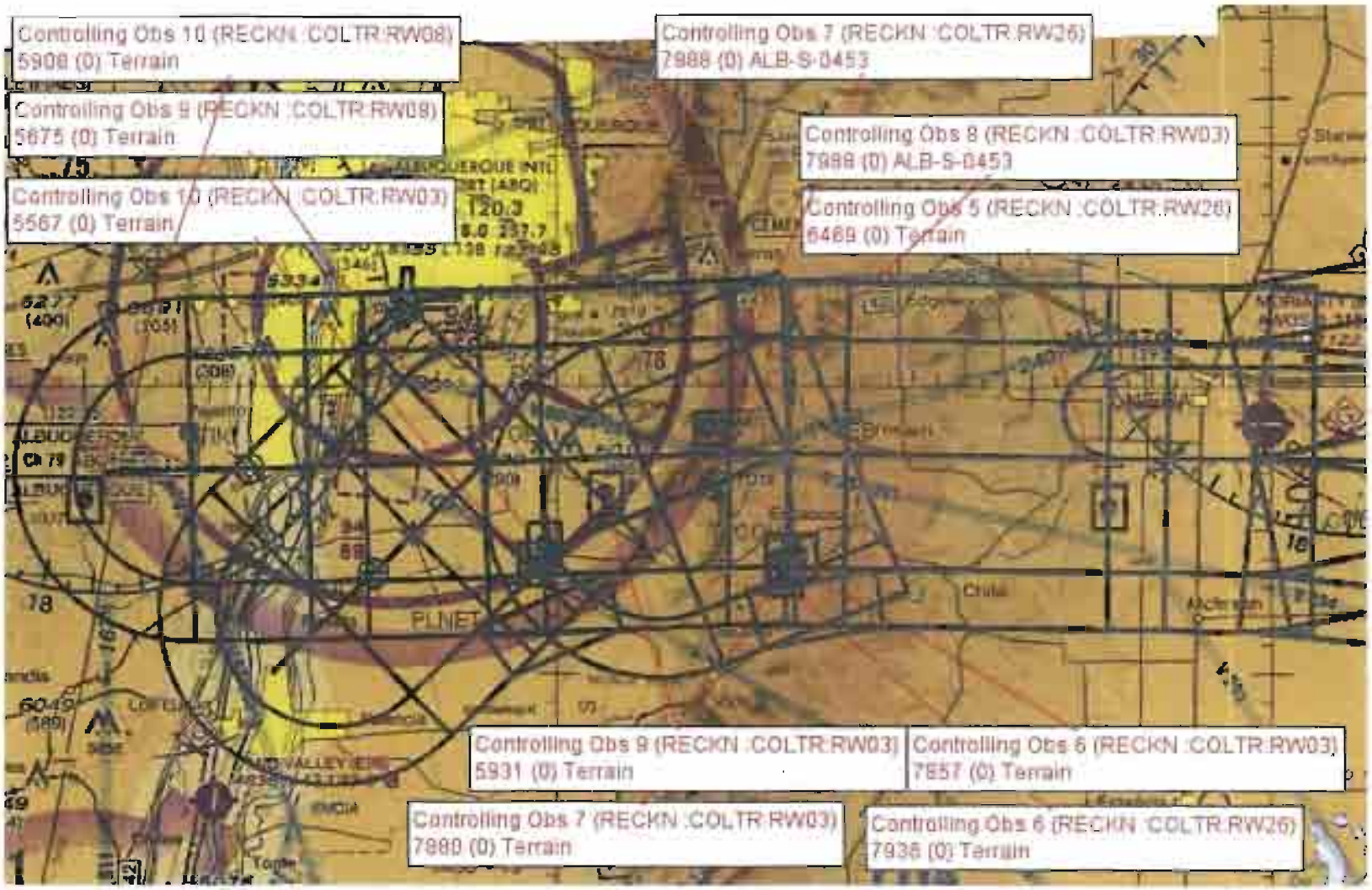
(19) Graphic Depiction (13 of 16)



(19) Graphic Depiction (14 of 16)


Controlling Obs 4 (TCC COLTR RW26)
7411 (0) Terrain
Controlling Obs 3 (TCC COLTR RW26)
6810 (0) Terrain
Controlling Obs 3 (RECKN COLTR RW26)
6673 (0) Terrain
Controlling Obs 4 (RECKN COLTR RW26)
7296 (0) Terrain
Controlling Obs 2 (TCC COLTR RW26)
6187 (0) Terrain
7507
79

(19) Graphic Depiction (16 of 16)



US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
RECKN	343507.59N / 1033527.10W	Y		IF					RECKN.COLTR1
ZATOX	345008.71N / 1043709.58W	Y	FB	TF	286.71	53.04			
HABLA	345342.16N / 1051715.18W	Y	FB	TF	276.34	33.18			HOLD E, RT, 265.34 INBOUND
SNEWP	345450.79N / 1052930.40W	Y	FB	TF	276.52	10.14	+FL210/-FL250	270	
COLTR	345722.41N / 1060043.00W	Y	FB	TF	275.76	25.78	+14000/-FL180	250	
En Route Transition									
TCC VORTAC	351055.94N / 1033554.89W	Y		IF					TCC.COLTR1
ACH VORTAC	350642.19N / 1050223.79W	Y	FB	TF	267.01	71.04	+FL290		
BIGRE	350430.79N / 1051726.03W	Y	FB	TF	260.02	12.53			HOLD E, RT, 249.02 INBOUND
TALLR	350219.99N / 1053051.53W	Y	FB	TF	258.89	11.23	+FL210/-FL250	270	
COLTR	345722.41N / 1060043.00W	Y	FB	TF	258.73	25.02	+14000/-FL180	250	
Common Route									
COLTR	345722.41N / 1060043.00W	Y		IF			+14000/-FL180	250	COLTR.COLTR1

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
MIERA	345724.74N / 1060650.96W	Y	FB	TF	270.47	05.04			HOLD E, RT, 259.47 INBOUND
YYLEE	345734.15N / 1062018.81W	Y	FB	TF	270.87	11.07	+11000		
Runway Transition									
YYLEE	345734.15N / 1062018.81W	Y		IF			+11000		RW03 .COLTR1
CYOTE	345735.69N / 1062244.80W	Y	FB	TF	270.75	02.00			
TNTOE	345715.59N / 1063307.75W	Y	FB	TF	267.81	08.54	+10000	210	
PLNET	345450.34N / 1063600.06W	Y	FB	TF	224.35	03.38	9000		
NUCLR	345326.97N / 1063751.84W	Y	FO	TF	227.85	02.07	9000		
RW03				FM	227.85	05.00			
Runway Transition									
YYLEE	345734.15N / 1062018.81W	Y		IF			+11000		RW08 .COLTR1
CYOTE	345735.69N / 1062244.80W	Y	FB	TF	270.75	02.00			
TNTOE	345715.59N / 1063307.75W	Y	FB	TF	267.81	08.54	+10000	210	
ACMIE	345656.17N / 1064029.56W	Y	FB	TF	266.98	06.06	9000		

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
STIKI	345703.77N / 1064308.84W	Y	FO	TF	273.33	02.19	9000		
RW08				FM	273.33	05.00			
Runway Transition									
YYLEE	345734.15N / 1062018.81W	Y		IF			+11000		RW21.COLTR1
TACOH	345632.06N / 1062327.29W	Y	FB	TF	248.21	02.78	10000	210	
RW21									
Runway Transition									
YYLEE	345734.15N / 1062018.81W	Y		IF			+11000		RW26.COLTR1
TACOH	345632.06N / 1062327.29W	Y	FB	TF	248.21	02.78	10000	210	
RW26									

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ACH   K2011780VTH  N35064219W105022379    N35064219W105022379E0120054452     NARANTON CHICO
        SUSAD        BWS   K2010960VDLW N32491654W106004735    N32491654W106004735E0110041061     NARBOLES
        SUSAD        TCC   K2011360VTHA N35105594W103355489    N35105594W103355489E0120040352     NARTUCUMCARI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ACMIE K20    W   L N34565617W106402956                    E0091     NAR           ACMIE
        SUSAEAENRT   BIGRE K20    W     N35043079W105172603                    E0085     NAR           BIGRE
        SUSAEAENRT   COLTR K20    W     N34572241W106004300                    E0088     NAR           COLTR
        SUSAEAENRT   CYOTE K20    C   L N34573569W106224480                    E0090     NAR           CYOTE
        SUSAEAENRT   HABLA K20    W     N34534216W105171518                    E0085     NAR           HABLA
        SUSAEAENRT   MIERA K20    C   B N34572474W106065096                    E0088     NAR           MIERA
        SUSAEAENRT   NUCLR K20    W   L N34532697W106375184                    E0091     NAR           NUCLR
        SUSAEAENRT   PLNET K20    W   L N34545034W106360006                    E0090     NAR           PLNET
        SUSAEAENRT   RECKN K20    W   H N34350759W103352710                    E0076     NAR           RECKN
        SUSAEAENRT   SNEWP K20    W     N34545079W105293040                    E0086     NAR           SNEWP
        SUSAEAENRT   STIKI K20    W   L N34570377W106430884                    E0091     NAR           STIKI
        SUSAEAENRT   TACOH K20    W   L N34563206W106232729                    E0090     NAR           TACOH
        SUSAEAENRT   TALLR K20    W     N35021999W105305153                    E0086     NAR           TALLR
        SUSAEAENRT   TNTOE K20    W   L N34571559W106330775                    E0090     NAR           TNTOE
        SUSAEAENRT   YYLEE K20    W     N34573415W106201881                    E0089     NAR           YYLEE
        SUSAEAENRT   ZATOX K20    W     N34500871W104370958                    E0081     NAR           ZATOX

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABQK2AABQ     0     137YHN35022470W106363310E011005355         1800018000C    MNAR    ALBUQUERQUE INTL SUNPORT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABQK2ECOLTR14RECKN 010RECKNK2EA0E       IF                                                18000
        SUSAP KABQK2ECOLTR14RECKN 020ZATOXK2EA0E    010TF                    27570530
        SUSAP KABQK2ECOLTR14RECKN 030HABLAK2EA0E  H 010TF                    26530332
        SUSAP KABQK2ECOLTR14RECKN 040SNEWPK2EA0E    010TF                    26550101    B FL250FL210     270
        SUSAP KABQK2ECOLTR14RECKN 050COLTRK2EA0EE   010TF                    26480258    B FL18014000     250
```

QUALITY CHECKED 4

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

FAA Form 7100-3 (9/02)

```
SUSAP KABQK2ECOLTR14TCC   010TCC  K2D 0V       IF                                          18000
SUSAP KABQK2ECOLTR14TCC   020ACH  K2D 0V    010TF                    25600710    + FL290
SUSAP KABQK2ECOLTR14TCC   030BIGREK2EA0E  H 010TF                    24900125
SUSAP KABQK2ECOLTR14TCC   040TALLRK2EA0E    010TF                    24790112    B FL250FL210     270
SUSAP KABQK2ECOLTR14TCC   050COLTRK2EA0EE   010TF                    24770250    B FL18014000     250
SUSAP KABQK2ECOLTR15      010COLTRK2EA0E       IF                                B FL1801400018000250
SUSAP KABQK2ECOLTR15      020MIERAK2EA0E  H 010TF                    25950050
SUSAP KABQK2ECOLTR15      030YYLEEK2EA0EE   010TF                    25990111    + 11000
SUSAP KABQK2ECOLTR16RW03  010YYLEEK2EA0E       IF                                + 11000     18000
SUSAP KABQK2ECOLTR16RW03  020CYOTEK2EA0E    010TF                    25980020
SUSAP KABQK2ECOLTR16RW03  030TNTOEK2EA0E    010TF                    25680085    + 10000          210
SUSAP KABQK2ECOLTR16RW03  040PLNETK2EA0E    010TF                    21340034      09000
SUSAP KABQK2ECOLTR16RW03  050NUCLRK2EA0EY   010TF                    21690021      09000
SUSAP KABQK2ECOLTR16RW03  060NUCLRK2EA0EE      FM BWS K2      335212772169    D
SUSAP KABQK2ECOLTR16RW08  010YYLEEK2EA0E       IF                                + 11000     18000
SUSAP KABQK2ECOLTR16RW08  020CYOTEK2EA0E    010TF                    25980020
SUSAP KABQK2ECOLTR16RW08  030TNTOEK2EA0E    010TF                    25680085    + 10000          210
SUSAP KABQK2ECOLTR16RW08  040ACMIEK2EA0E    010TF                    25600061      09000
SUSAP KABQK2ECOLTR16RW08  050STIKIK2EA0EY   010TF                    26230022      09000
SUSAP KABQK2ECOLTR16RW08  060STIKIK2EA0EE      FM BWS K2      333713232623    D
SUSAP KABQK2ECOLTR16RW21  010YYLEEK2EA0E       IF                                + 11000     18000
SUSAP KABQK2ECOLTR16RW21  020TACOHK2EA0EE   010TF                    23720028      10000          210
SUSAP KABQK2ECOLTR16RW26  010YYLEEK2EA0E       IF                                + 11000     18000
SUSAP KABQK2ECOLTR16RW26  020TACOHK2EA0EE   010TF                    23720028      10000          210
```

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KABQK2GRW03    0100000338 N35012009W106375017+0100    +1595705305000060150IIBZY1
        SUSAP KABQK2GRW08    0137930794 N35023960W106370569+0300    +1598705315100054150IISPT1
        SUSAP KABQK2GRW21    0100002138 N35023027W106362546-0100    +1599205316000055150R
        SUSAP KABQK2GRW26    0137932595 N35023863W106343189-0300    +1611205355000050150R
```

QUALITY CHECKED 4

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RECKN	RECKN	010		IF		FB					
	RECKN	ZATOX	020		TF		FB	1.0	275.7()	053.0		
	RECKN	HABLA	030		TF		FB	1.0	265.3()	033.2		
	RECKN	SNEWP	040		TF		FB	1.0	265.5()	010.1	BT FL250FL210	AT 270
	RECKN	COLTR	050		TF		FB	1.0	264.8()	025.8	BT FL18014000	AT 250
	TCC	TCC	010		IF		FB					
	TCC	ACH	020		TF		FB	1.0	256.0()	071.0	AA FL290	
	TCC	BIGRE	030		TF		FB	1.0	249.0()	012.5		
	TCC	TALLR	040		TF		FB	1.0	247.9()	011.2	BT FL250FL210	AT 270
	TCC	COLTR	050		TF		FB	1.0	247.7()	025.0	BT FL18014000	AT 250
		COLTR	010		IF		FB				BT FL18014000	AT 250
		MIERA	020		TF		FB	1.0	259.5()	005.0		
		YYLEE	030		TF		FB	1.0	259.9()	011.1	AA 11000	
	RW03	YYLEE	010		IF		FB				AA 11000	
	RW03	CYOTE	020		TF		FB	1.0	259.8()	002.0		
	RW03	TNTOE	030		TF		FB	1.0	256.8()	008.5	AA 10000	AT 210
	RW03	PLNET	040		TF		FB	1.0	213.4()	003.4	AT 09000	
	RW03	NUCLR	050		TF		FO	1.0	216.9()	002.1	AT 09000	
	RW03	NUCLR	060		FM		FB		216.9()			
	RW08	YYLEE	010		IF		FB				AA 11000	
	RW08	CYOTE	020		TF		FB	1.0	259.8()	002.0		
	RW08	TNTOE	030		TF		FB	1.0	256.8()	008.5	AA 10000	AT 210
	RW08	ACMIE	040		TF		FB	1.0	256.0()	006.1	AT 09000	
	RW08	STIKI	050		TF		FO	1.0	262.3()	002.2	AT 09000	
	RW08	STIKI	060		FM		FB		262.3()			
	RW21	YYLEE	010		IF		FB				AA 11000	
	RW21	TACOH	020		TF		FB	1.0	237.2()	002.8	AT 10000	AT 210
	RW26	YYLEE	010		IF		FB				AA 11000	
	RW26	TACOH	020		TF		FB	1.0	237.2()	002.8	AT 10000	AT 210

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ACH	N350642.19	W1050223.79	N3506.703	W10502.397
	BWS	N324916.54	W1060047.35	N3249.276	W10600.789
	TCC	N351055.94	W1033554.89	N3510.932	W10335.915
	ACMIE	N345656.17	W1064029.56	N3456.936	W10640.493
	BIGRE	N350430.79	W1051726.03	N3504.513	W10517.434
	COLTR	N345722.41	W1060043.00	N3457.374	W10600.717

QUALITY CHECKED 4

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

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CYOTE	N345735.69	W1062244.80	N3457.595	W10622.747
HABLA	N345342.16	W1051715.18	N3453.703	W10517.253
MIERA	N345724.74	W1060650.96	N3457.412	W10606.849
NUCLR	N345326.97	W1063751.84	N3453.450	W10637.864
PLNET	N345450.34	W1063600.06	N3454.839	W10636.001
RECKN	N343507.59	W1033527.10	N3435.127	W10335.452
SNEWP	N345450.79	W1052930.40	N3454.847	W10529.507
STIKI	N345703.77	W1064308.84	N3457.063	W10643.147
TACOH	N345632.06	W1062327.29	N3456.534	W10623.455
TALLR	N350219.99	W1053051.53	N3502.333	W10530.859
TNTOE	N345715.59	W1063307.75	N3457.260	W10633.129
YYLEE	N345734.15	W1062018.81	N3457.569	W10620.314
ZATOX	N345008.71	W1043709.58	N3450.145	W10437.160
RW03	N350120.09	W1063750.17	N3501.335	W10637.836
RW08	N350239.60	W1063705.69	N3502.660	W10637.095
RW21	N350230.27	W1063625.46	N3502.505	W10636.424
RW26	N350238.63	W1063431.89	N3502.644	W10634.532

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW03	05305	60
RW08	05315	54
RW21	05316	55
RW26	05355	50

QUALITY CHECKED 4

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
COLTR RNAV	ONE	COLTR.COLTR1	NONE		

RADIO FIX AND HOLDING DATA RECORD

NAME: ACMIE **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345656.17N/1064029.56W **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 (RNP) Z RWY 8			KABQ	ALBUQUERQUE	NM (US)
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED STAR, CONTROLLER, AND EN ROUTE LOW TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 07/20/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ANTON CHICO VORTAC **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350642.19N/1050223.79W **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	ANTON CHICO	ACH	VORTAC	H							45000

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MAXXO			KPHX	PHOENIX	AZ (US)
DP	ST. JOHNS			KPHX	PHOENIX	AZ (US)
DP	TAFOY			KSAF	SANTA FE	NM (US)
EN ROUTE	J142					(US)
EN ROUTE	J231					(US)
EN ROUTE	V12					(US)
EN ROUTE	V234					(US)
EN ROUTE	V62					(US)
IAP	RNAV (GPS) RWY 2			KLVS	LAS VEGAS	NM (US)
IAP	RNAV (GPS) RWY 32			KLVS	LAS VEGAS	NM (US)
IAP	VOR RWY 33			KSAF	SANTA FE	NM (US)
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)
STAR	MIERA			KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
RAISED MAA FROM 17500 TO 45000.
ADDED STAR AND EN ROUTE HIGH TO FIX CHARTING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 07/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BIGRE **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350430.79N/1051726.03W **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	069.02	249.02	R		12	28000	40000	22	28

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)		1	KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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: COLTR **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345722.41N/1060043.00W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: CYOTE **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345735.69N/1062244.80W **TYPE:** WP, INT

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	ALBUQUERQUE	ABQ	VORTAC	H	090.00	103.00		22.13		10000	17500
2	SANTA FE	SAF	VORTAC	L	191.02	204.02		38.06		10000	17500
3	OTTO	OTO	VOR	L	240.00	253.00		22.85		10000	17500

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

REMARKS:
ALBUQUERQUE (FAC 1) AND OTTO (FAC 3) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V234	1, 2				(US)
EN ROUTE	V291	1, 2				(US)
EN ROUTE	V60	1, 3				(US)
IAP	RNAV (GPS) RWY 3			KABQ	ALBUQUERQUE	NM (US)
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
MOVED FAC 1 DISTANCE FROM DME COLUMN TO DIST FROM FAC COLUMN.
REMOVED DME AS FIX TYPE; NOT CURRENTLY CHARTED AS A DME FIX.
CHANGED FAC 1 MRA FROM 9000 TO 10000.
ADDED DIST FROM FAC FOR FAC 2.
ADDED DIST FROM FAC FOR FAC 3.
RAISED FAC 3 MRA FROM 8000 TO 10000.
REMOVED FAC 4.
ADDED FIX MAKE UP FACILITIES.
ADDED STAR TO REQUIRED CHARTING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/13/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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: HABLA **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345342.16N/1051715.18W **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	085.34	265.34	R		11	20000	40000	18	28

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)		1	KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: MIERA **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345724.74N/1060650.96W **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	ALBUQUERQUE	ABQ	VORTAC	H	085.35	098.35	35.00	35.00		12000	23000
2	CORONA	CNX	VORTAC	H	315.70	328.70		41.40		12000	23000
3	ANTON CHICO	ACH	VORTAC	H	248.37	260.37		53.73		12000	23000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CNX	VORTAC	R-316	42	12000	23000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	ABQ	VORTAC	085.35	265.35	R	1-1 1/2		18000	23000	18	21
2	E		WP	079.47	259.47	R		7	12000	18000	10	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
2	230	AAO	350018.00N/1061633.00W	7681	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
ALBUQUERQUE (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 NOT CHARTED: ATC USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)		2	KABQ	ALBUQUERQUE	NM (US)
STAR	MIERA	1		KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED DIST IN NM FROM FAC 1.
ADDED FAC 2 AND FAC 3.
CHANGED HOLDING PAT 1 CRS INBOUND FROM 265.00 TO 265.35.
CHANGED HOLDING PAT 1 FROM 6 DME TO 1-1 1/2 MIN.
ADDED PAT 1 MIN TEMPLATE.
CHANGED PAT 1 MAX TEMPLATE FROM 24 TO 21.
ADDED PAT 2.
ADDED PRECIPITOUS TERRAIN NOTE.
ADDED LIMITED HOLDING NOTE.
ADDED PAT 1 NOT CHARTED NOTE.
ADDED COORDINATING FACILITY NOTE.
REMOVED REQUESTED CHART PUBLICATION NOTE AND ADDED EN ROUTE HIGH, EN ROUTE LOW, AND CONTROLLER TO REQUIRED CHARTING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: NUCLR **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345326.97N/1063751.84W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/03/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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: PLNET **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345450.34N/1063600.06W **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 (RNP) Z RWY 3			KABQ	ALBUQUERQUE	NM (US)
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED STAR, CONTROLLER, AND EN ROUTE LOW TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 07/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: RECKN **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 343507.59N/1033527.10W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SNEWP **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345450.79N/1052930.40W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: STIKI **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345703.77N/1064308.84W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)
STAR	KRKEE (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/02/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: TACOH **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345632.06N/1062327.29W **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 (RNP) Z RWY 21			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 26			KABQ	ALBUQUERQUE	NM (US)
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED CONTROLLER AND EN ROUTE LOW TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 07/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TALLR **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350219.99N/1053051.53W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: TNTOE **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345715.59N/1063307.75W **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 (RNP) Z RWY 3			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 8			KABQ	ALBUQUERQUE	NM (US)
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED STAR, CONTROLLER, AND EN ROUTE LOW TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 07/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TUCUMCARI VORTAC **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 351055.94N/1033554.89W **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	TUCUMCARI	TCC	VORTAC	H							45000

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	TCC	VORTAC	066.00	246.00	R	1	-	6100	12000	8	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	200' AAO	345754.10N/1034142.50W	5390	6A
1	230	200' AAO	350806.00N/1034154.00W	5036	4E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING RESTRICTED TO AIRWAY MEA OR 6400' MSL, WHICHEVER IS HIGHER.
VOR APCH HOLDING: LIMITED TO ESTABLISHED PATTERN. (PAT #1)

REMARKS:
UNPLANNED HOLD OBSTACLE BASED ON 5190 SPOT ELEVATION ALB-S-0450.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
DP	FYSTA (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	GRZZZ (RNAV)			KABQ	ALBUQUERQUE	NM (US)
DP	WORTH			KGKY	ARLINGTON	TX (US)
DP	WORTH			KADS	DALLAS	TX (US)
DP	COYOTE			KDAL	DALLAS	TX (US)
DP	LOVE			KDAL	DALLAS	TX (US)
DP	SLOTT (RNAV)			KDAL	DALLAS	TX (US)
DP	WORTH			KDAL	DALLAS	TX (US)
DP	WORTH			KRBD	DALLAS	TX (US)
DP	COYOTE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	LOVE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	SLOTT (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WORTH			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WORTH			KDTO	DENTON	TX (US)
DP	WORTH			KAFW	FORT WORTH	TX (US)
DP	WORTH			KFTW	FORT WORTH	TX (US)
DP	WORTH			KFWS	FORT WORTH	TX (US)
DP	WORTH			KNFW	FORT WORTH	TX (US)
DP	WORTH			KGPM	GRAND PRAIRIE	TX (US)
DP	WORTH			KLNC	LANCASTER	TX (US)
DP	WORTH			KTKI	MC KINNEY	TX (US)
DP	WORTH			KHQZ	MESQUITE	TX (US)
EN ROUTE	J6					(US)
EN ROUTE	J76					(US)
EN ROUTE	J78					(US)
EN ROUTE	V12					(US)
EN ROUTE	V264					(US)
EN ROUTE	V390					(US)
EN ROUTE	V402					(US)
IAP	RNAV (GPS) RWY 21			KTCC	TUCUMCARI	NM (US)
IAP	RNAV (GPS) RWY 26			KTCC	TUCUMCARI	NM (US)
IAP	RNAV (GPS) RWY 3			KTCC	TUCUMCARI	NM (US)
IAP	VOR RWY 21		1	KTCC	TUCUMCARI	NM (US)
IAP	VOR RWY 26		1	KTCC	TUCUMCARI	NM (US)
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)
STAR	MIERA ARRIVAL			KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
UPDATED COORDINATES TO REFLECT NEW FACILITY COORDINATES IN DATABASE.
ADDED STAR TO REQUIRED CHARTING.

DEVELOPED BY:	**DATE:** 07/18/2012	**OFFICE:** AJV-353	**NAME:** JILL OLSON (STEPHEN PETERSON)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

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

RADIO FIX AND HOLDING DATA RECORD

NAME: YYLEE **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345734.15N/1062018.81W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/13/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ZATOX **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345008.71N/1043709.58W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	COLTR (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

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

QUALITY CHECKED

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:

Alburquerque, NM
Albuquerque Intl. Sunport (KABQ)
COLTR STAR (RNAV)

2. Waiver Required and Applicable Standard:

Requesting reduction in MEA on the segments from YYLEE to TACOH, YYLEE to CYOTE, and CYOTE to TNTOE of 200'. This is a request for a waiver from the requirement of 2,000' AGL plus the 200' AAO. The current requirement would place the altitudes at TACHO and TNTOE at 10,200' MSL. (FAA Order 8260.19E, Chapter 2, Section 11)

3. Reason for Waiver *(Justification for nonstandard treatment)*:

The request is to reduce the 10,200' requirement at TACHO and TNTOE to 10,000' to join the RNP approaches established to runways 26 and 21 from TACOH and runways 8 and 3 from TNTOE. The lower altitudes are needed to make a flyable descent profile to these runways with the confines of the usable airspace.

4. Equivalent Level of Safety Provided:

The RNP approaches will required additional flight crew training and currency, along with improved equipment for these procedures to be flown. The area in question is under radar coverage and monitoring at all times and the flight paths are away from the obstructions into lower terrain areas.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

Due to the limited airspace in this area the fixes cannot be moved any more than they have been to prevent conflicts with other runways, departures and airways.

6. Coordination With User Organizations *(Specify)*:

This request has been coordinated with Albuquerque ARTCC, Albuquerque ATCT, and the SID and STAR design team.

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
06-01-2012	ABQ ATM	Air Traffic Manager	

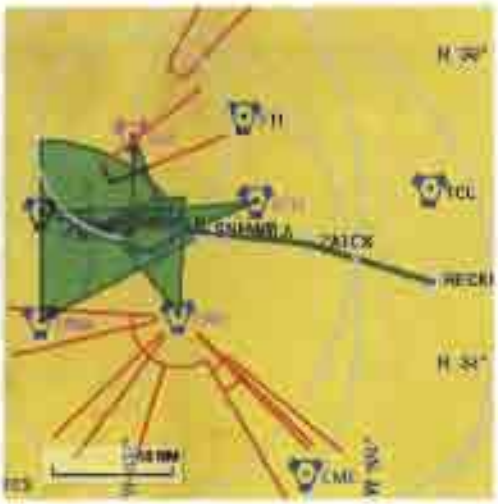
FAA FORM 8260 - 1 / July 2003 (computer generated)

8. CONTINUATION
Comments:

9. AFS ACTION		
	☐	Approved
	☐	Disapproved
	☐	Not Required

Comments:

Date:	Routing Symbol:	Signature:



Name:	enanders
Project Name:	
Output File:	STAR RECKN NUCLR 20120629_0806
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/29/2012 8:06:41 AM
Input File:	KABQ KABQ STAR RECKN NUCLR 20120629_0753.txt
Databases:	AVNIS Date: 02/07/2012 Obstacle Date: 08/26/2011 NFD Date: 09/30/2010 DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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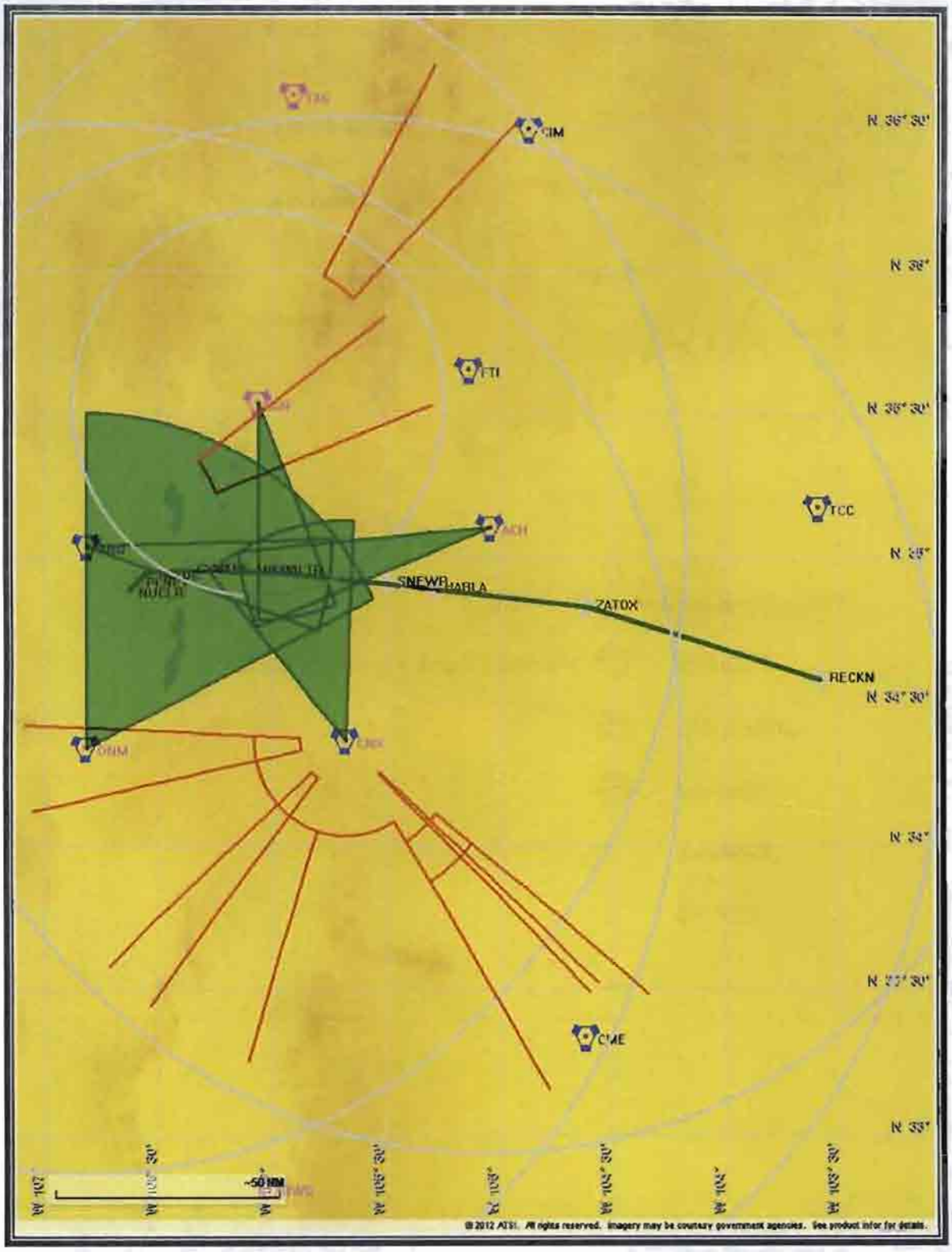
CIM
FTI
TCC
SNEWR
HABLA
ZATOX
RECKN
CME
N 36° 30'
N 36°
N 35° 30'
N 35°
N 34° 30'
N 34°
N 33° 30'
N 33°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RECKN	WP	N 34° 35' 7.59" W 103° 35' 27.10"	28000.0	Step	280.0	Fly By	TF
ZATOX	WP	N 34° 50' 8.71" W 104° 37' 9.58"	28000.0	Step	280.0	Fly By	TF
HABLA	WP	N 34° 53' 42.16" W 105° 17' 15.18"	20000.0	Step	240.0	Fly By	TF
SNEWP	WP	N 34° 54' 50.79" W 105° 29' 30.40"	15000.0	Step	270.0	Fly By	TF
COLTR_	WP	N 34° 57' 22.41" W 106° 0' 43.00"	12000.0	Step	250.0	Fly By	TF
MIERA	WP	N 34° 57' 24.74" W 106° 6' 50.96"	12000.0	Step	210.0	Fly By	TF
YYLEE	WP	N 34° 57' 34.15" W 106° 20' 18.81"	10200.0	Step	180.0	Fly By	TF
CYOTE	WP	N 34° 57' 35.69" W 106° 22' 44.80"	10200.0	Step	210.0	Fly By	TF
TNTOE	WP	N 34° 57' 15.59" W 106° 33' 7.75"	10000.0	Step	180.0	Fly By	TF
PLNET	WP	N 34° 54' 50.34" W 106° 36' 0.06"	8200.0	Step	180.0	Fly By	TF
NUCLR	WP	N 34° 53' 26.97" W 106° 37' 51.84"	7800.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan

Aircraft ALTITUDE at Fly-By WP SNEWP too high.

DME/DME

Return To Summary

Settings:

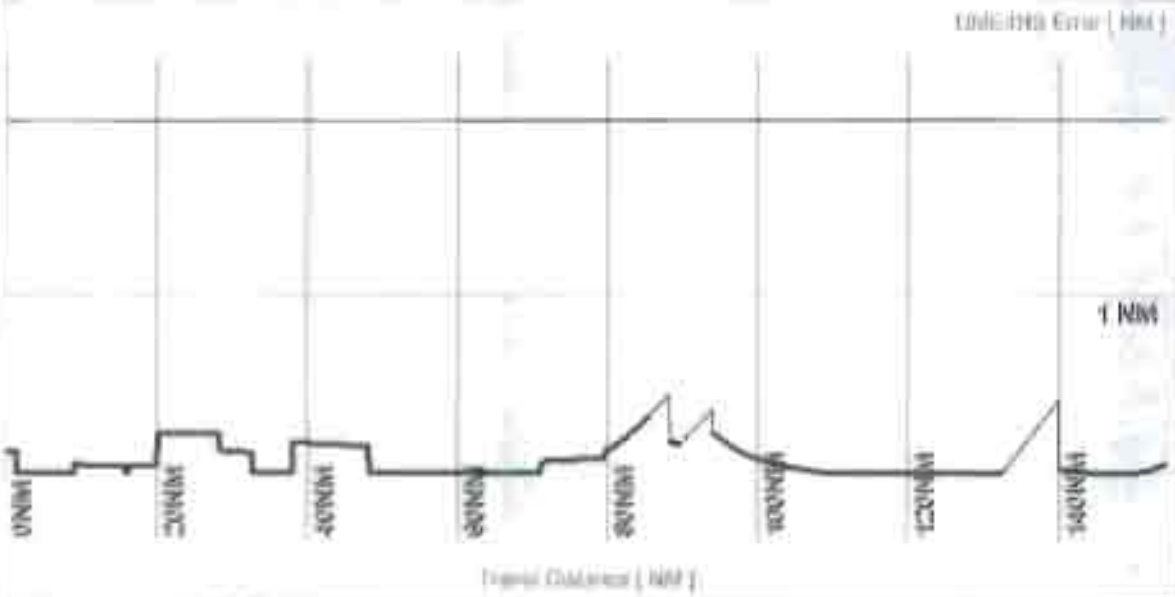
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 11

Maximum DME Error: 0.596 NM

No Critical DMEs were found.

Available DMEs: CNX, ACH, CME, FTI, PNH, TCC, TXO, CIM, ABQ, ONM, SAF



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CME	N 33° 20' 14.92" W 104° 37' 16.48" E 12	H	Database	NO	0.596	Enabled	16.8 %	19.6 %
2	FTI	N 35° 39' 27.26" W 105° 8' 8.12" E 13	H	Database	NO	0.596	Enabled	13.8 %	16.9 %
3	TCC	N 35° 10' 55.70" W 103° 35' 54.67" E 12	H	Database	NO	0.987	Enabled	26.9 %	29.8 %
4	TXO	N 34° 29' 42.46" W 102° 50' 22.79" E 11	H	Database	NO	0.596	Enabled	3.9 %	5.0 %
5	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H + ESV	User	NO	1.190	Enabled	33.6 %	32.7 %
6	CIM	N 36° 29' 29.03" W 104° 52' 19.20" E 13	H	Database	NO	0.596	Enabled	6.5 %	8.2 %
7	PNH	N 35° 14' 6.23" W 101° 41' 56.52" E 8	H	Database	NO	0.596	Enabled	4.3 %	5.4 %
8	CNX	N 34° 22' 1.28" W 105° 40' 40.82" E 13	H + ESV	User	NO	1.250	Enabled	18.2 %	18.4 %
9	ABQ	N 35° 2' 37.66" W 106° 48' 58.72" E 13	H + ESV	User	NO	1.403	Enabled	24.2 %	21.4 %
10	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L + ESV	User	NO	0.795	Enabled	16.5 %	14.5 %
11	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H + ESV	User	NO	1.148	Enabled	12.5 %	9.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	TCC	TXO	CME	FTI	ACH	PNH
16.3	CIM	PNH	CME	CNX	ACH	TCC
32.7	FTI	TCC	CME	CNX	ABQ	TXO
52.1	FTI	TCC	CME	CNX	ACH	ABQ
76.0	ACH	TCC	CME	ONM		
86.1	ACH	TCC	CNX	ONM		
96.3	ACH	SAF	CNX	ABQ		
121.9	ACH	SAF	CNX	ABQ		
127.1	ACH	SAF	CNX	ABQ		
138.3	ABQ	ONM				
140.1	ABQ	ONM				
148.1	ABQ	ONM				
151.9	ABQ	ONM				

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 34° 53' 37.21" W 105° 16' 17.19"	N 34° 53' 55.27" W 105° 19' 36.17"	2.7
	VOR: ACH	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
	VOR: CNX	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
	VOR: OTO	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
2	N 34° 54' 5.11" W 105° 21' 20.85"	N 34° 54' 34.37" W 105° 26' 33.82"	4.3
	VOR: ACH	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
	VOR: CNX	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
	VOR: OTO	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
3	N 34° 57' 29.35" W 106° 13' 18.00"	N 34° 57' 35.37" W 106° 22' 13.27"	7.3
	VOR: ABQ	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 57' 35.37" W 106° 22' 13.27"	
	VOR: OTO	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 57' 35.37" W 106° 22' 13.27"	
	VOR: SAF	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 57' 35.37" W 106° 22' 13.27"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H	6412.0	115.50	CNX	Used
	Restriction:	Bearing [True]: 128.0° to 132.0° Bearing [Mag]: 115.0° to 119.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 128.0° to 148.0° Bearing [Mag]: 115.0° to 135.0°			Distance: Beyond 35.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 132.0° to 134.0° Bearing [Mag]: 119.0° to 121.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 134.0° to 148.0° Bearing [Mag]: 121.0° to 135.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 148.0° to 198.0° Bearing [Mag]: 135.0° to 185.0°			Distance: Beyond 20.0 NM Altitude: Below 12000.0 Ft.		
	Restriction:	Bearing [True]: 198.0° to 218.0° Bearing [Mag]: 185.0° to 205.0°			Distance: Beyond 20.0 NM Altitude: Below 13000.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 228.0° Bearing [Mag]: 205.0° to 215.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 273.0° Bearing [Mag]: 205.0° to 260.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 228.0° to 258.0° Bearing [Mag]: 215.0° to 245.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 258.0° to 273.0° Bearing [Mag]: 245.0° to 260.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	ESV:	Bearing [True]: 320.0° to 362.0° Bearing [Mag]: 307.0° to 349.0°			Arc Distance: Out to 46.0 NM Altitude: 10000.0 to 30000.0 Ft.		
2	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H	4910.0	116.80	ONM	Used
	ESV:	Bearing [True]: 360.0° to 63.0° Bearing [Mag]: 347.0° to 50.0°			Arc Distance: Out to 70.0 NM Altitude: 8000.0 to 15000.0 Ft.		
3	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L	6263.2	110.60	SAF	Used
	Restriction:	Bearing [True]: 28.0° to 43.0° Bearing [Mag]: 15.0° to 30.0°			Distance: Beyond 30.0 NM Altitude: Below 14600.0 Ft.		
	ESV:	Bearing [True]: 158.0° to 180.0° Bearing [Mag]: 145.0° to 167.0°			Arc Distance: Out to 45.0 NM Altitude: 10000.0 to 23000.0 Ft.		
4	ABQ	N 35° 2' 37.66" W 106° 48' 58.72" E 13	H	5748.5	113.20	ABQ	Used
	Restriction:	Bearing [True]: 53.0° to 68.0° Bearing [Mag]: 40.0° to 55.0°			Distance: Beyond 30.0 NM Altitude: Below 15000.0 Ft.		
	ESV:	Bearing [True]: 88.0° to 109.0° Bearing [Mag]: 75.0° to 96.0°			Arc Distance: Out to 53.0 NM Altitude: 10000.0 to 23000.0 Ft.		

DME/DME (Continued.)

Return To Summary

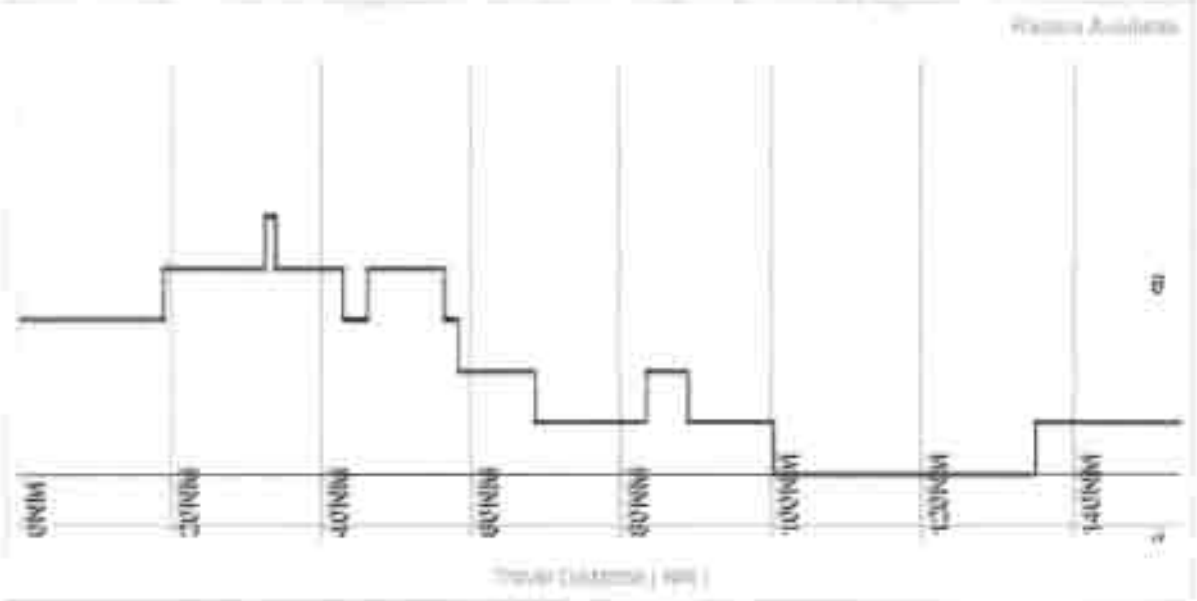
User DMEs (Continued.)

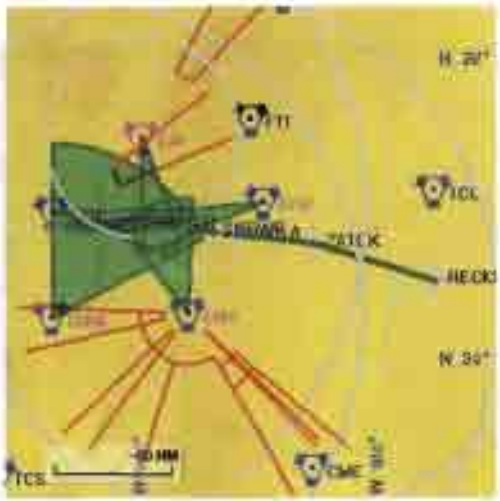
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H	5445.0	117.80	ACH	Used
		ESV:	Bearing [True]: 248.0° to 265.0° Bearing [Mag]: 236.0° to 253.0°		Arc Distance: Out to 55.0 NM Altitude: 10000.0 to 23000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





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Databases:	AVNIS Date: 02/07/2012 Obstacle Date: 08/26/2011 NFD Date: 09/30/2010 DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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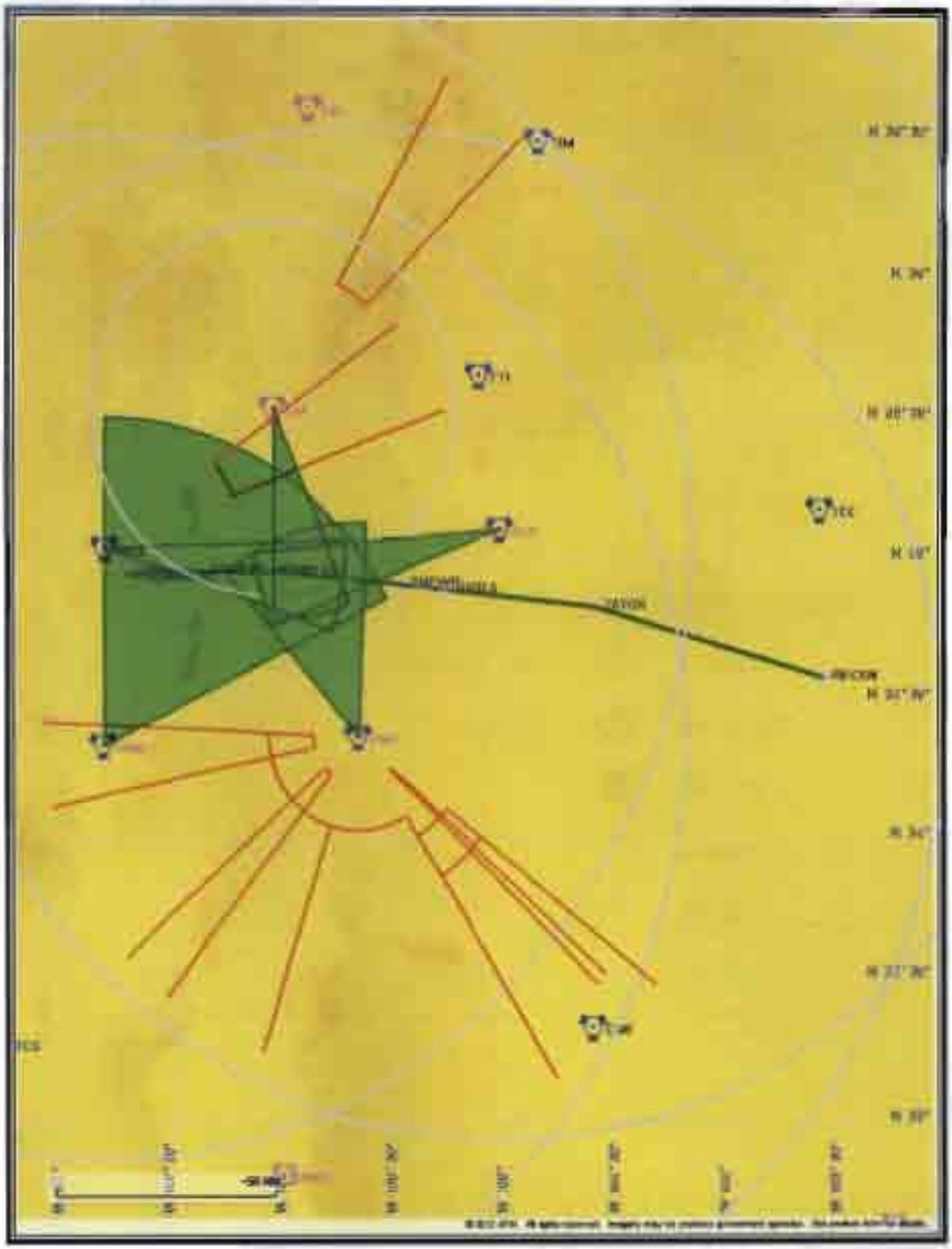


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RECKN	WP	N 34° 35' 7.59" W 103° 35' 27.10"	28000.0	Step	280.0	Fly By	TF
ZATOX	WP	N 34° 50' 8.71" W 104° 37' 9.58"	28000.0	Step	280.0	Fly By	TF
HABLA	WP	N 34° 53' 42.16" W 105° 17' 15.18"	20000.0	Step	240.0	Fly By	TF
SNEWP	WP	N 34° 54' 50.79" W 105° 29' 30.40"	15000.0	Step	270.0	Fly By	TF
COLTR_	WP	N 34° 57' 22.41" W 106° 0' 43.00"	12000.0	Step	250.0	Fly By	TF
MIERA	WP	N 34° 57' 24.74" W 106° 6' 50.96"	12000.0	Step	210.0	Fly By	TF
YYLEE	WP	N 34° 57' 34.15" W 106° 20' 18.81"	10200.0	Step	180.0	Fly By	TF
CYOTE	WP	N 34° 57' 35.69" W 106° 22' 44.80"	10200.0	Step	210.0	Fly By	TF
TNTOE	WP	N 34° 57' 15.59" W 106° 33' 7.75"	10000.0	Step	180.0	Fly By	TF
ACMIE	WP	N 34° 56' 56.17" W 106° 40' 29.56"	8200.0	Step	180.0	Fly By	TF
STIKI	WP	N 34° 57' 3.77" W 106° 43' 8.84"	8200.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP SNEWP too high.

DME/DME

Return To Summary

Settings:

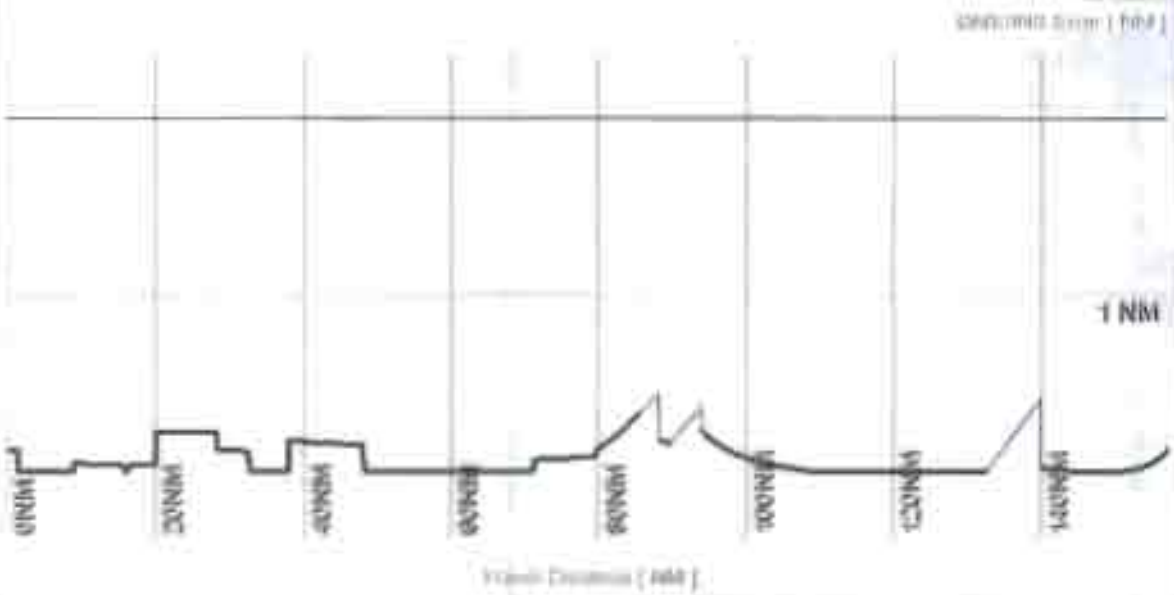
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 11

Maximum DME Error: 0.596 NM

No Critical DMEs were found.

Available DMEs: CNX, ACH, CME, FTI, PNH, TCC, TXO, CIM, ABQ, ONM, SAF



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CME	N 33° 20' 14.90" W 104° 37' 16.46" E 12	H	Database	NO	0.596	Enabled	15.4 %	19.2 %
2	FTI	N 35° 39' 27.26" W 105° 8' 8.12" E 13	H	Database	NO	0.596	Enabled	13.5 %	16.6 %
3	TCC	N 35° 10' 55.70" W 103° 35' 54.67" E 12	H	Database	NO	0.987	Enabled	26.2 %	29.2 %
4	TXO	N 34° 29' 42.46" W 102° 50' 22.79" E 11	H	Database	NO	0.596	Enabled	3.8 %	4.9 %
5	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H + ESV	User	NO	1.180	Enabled	32.8 %	32.1 %
6	CIM	N 36° 29' 29.03" W 104° 52' 19.20" E 13	H	Database	NO	0.596	Enabled	6.3 %	8.1 %
7	PNH	N 35° 14' 6.23" W 101° 41' 56.52" E 8	H	Database	NO	0.596	Enabled	4.2 %	5.3 %
8	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H + ESV	User	NO	1.250	Enabled	17.8 %	18.1 %
9	ABQ	N 35° 2' 37.66" W 106° 48' 56.72" E 13	H + ESV	User	NO	1.517	Enabled	26.1 %	22.8 %
10	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L + ESV	User	NO	0.795	Enabled	16.1 %	14.2 %
11	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H + ESV	User	NO	1.261	Enabled	14.6 %	10.9 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	TCC	TXO	CME	FTI	ACH	PNH
16.3	CIM	PNH	CME	CNX	ACH	TCC
32.7	FTI	TCC	CME	CNX	ABQ	TXO
52.1	FTI	TCC	CME	CNX	ACH	ABQ
76.0	ACH	TCC	CME	ONM		
86.1	ACH	TCC	CNX	ONM		
96.3	ACH	SAF	CNX	ABQ		
121.9	ACH	SAF	CNX	ABQ		
127.1	ACH	SAF	CNX	ABQ		
138.3	ABQ	ONM				
140.1	ABQ	ONM				
148.8	ABQ	ONM				
154.6	ABQ	ONM				

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 34° 53' 37.21" W 105° 16' 17.19"	N 34° 53' 55.27" W 105° 19' 36.17"	2.7
	VOR: ACH	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
	VOR: CNX	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
	VOR: OTO	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
2	N 34° 54' 5.11" W 105° 21' 20.85"	N 34° 54' 34.37" W 105° 26' 33.82"	4.3
	VOR: ACH	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
	VOR: CNX	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
	VOR: OTO	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
3	N 34° 57' 29.35" W 106° 13' 18.00"	N 34° 57' 35.37" W 106° 22' 13.27"	7.3
	VOR: ABQ	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 57' 35.37" W 106° 22' 13.27"	
	VOR: OTO	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 57' 35.37" W 106° 22' 13.27"	
	VOR: SAF	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 57' 35.37" W 106° 22' 13.27"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H	6412.0	115.50	CNX	Used
	Restriction	Bearing [True]: 126.0° to 132.0° Bearing [Mag]: 115.0° to 119.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 126.0° to 148.0° Bearing [Mag]: 115.0° to 135.0°			Distance: Beyond 35.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 132.0° to 134.0° Bearing [Mag]: 119.0° to 121.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 134.0° to 148.0° Bearing [Mag]: 121.0° to 135.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction	Bearing [True]: 148.0° to 198.0° Bearing [Mag]: 135.0° to 185.0°			Distance: Beyond 20.0 NM Altitude: Below 12000.0 Ft.		
	Restriction	Bearing [True]: 198.0° to 218.0° Bearing [Mag]: 185.0° to 205.0°			Distance: Beyond 20.0 NM Altitude: Below 13000.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 228.0° Bearing [Mag]: 205.0° to 215.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction	Bearing [True]: 218.0° to 273.0° Bearing [Mag]: 205.0° to 260.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 228.0° to 258.0° Bearing [Mag]: 215.0° to 245.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction	Bearing [True]: 258.0° to 273.0° Bearing [Mag]: 245.0° to 260.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	ESV	Bearing [True]: 320.0° to 362.0° Bearing [Mag]: 307.0° to 349.0°			Arc Distance: Out to 46.0 NM Altitude: 10000.0 to 30000.0 Ft.		
2	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H	4910.0	116.60	ONM	Used
	ESV	Bearing [True]: 360.0° to 63.0° Bearing [Mag]: 347.0° to 50.0°			Arc Distance: Out to 70.0 NM Altitude: 6000.0 to 15000.0 Ft.		
3	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L	6263.2	110.60	SAF	Used
	Restriction	Bearing [True]: 28.0° to 43.0° Bearing [Mag]: 15.0° to 30.0°			Distance: Beyond 30.0 NM Altitude: Below 14600.0 Ft.		
	ESV	Bearing [True]: 158.0° to 180.0° Bearing [Mag]: 145.0° to 167.0°			Arc Distance: Out to 45.0 NM Altitude: 10000.0 to 23000.0 Ft.		
4	ABQ	N 35° 2' 37.66" W 106° 46' 58.72" E 13	H	5746.5	113.20	ABQ	Used
	Restriction	Bearing [True]: 53.0° to 69.0° Bearing [Mag]: 40.0° to 55.0°			Distance: Beyond 30.0 NM Altitude: Below 15000.0 Ft.		
	ESV	Bearing [True]: 88.0° to 109.0° Bearing [Mag]: 75.0° to 96.0°			Arc Distance: Out to 53.0 NM Altitude: 10000.0 to 23000.0 Ft.		

DME/DME (Continued.)

Return To Summary

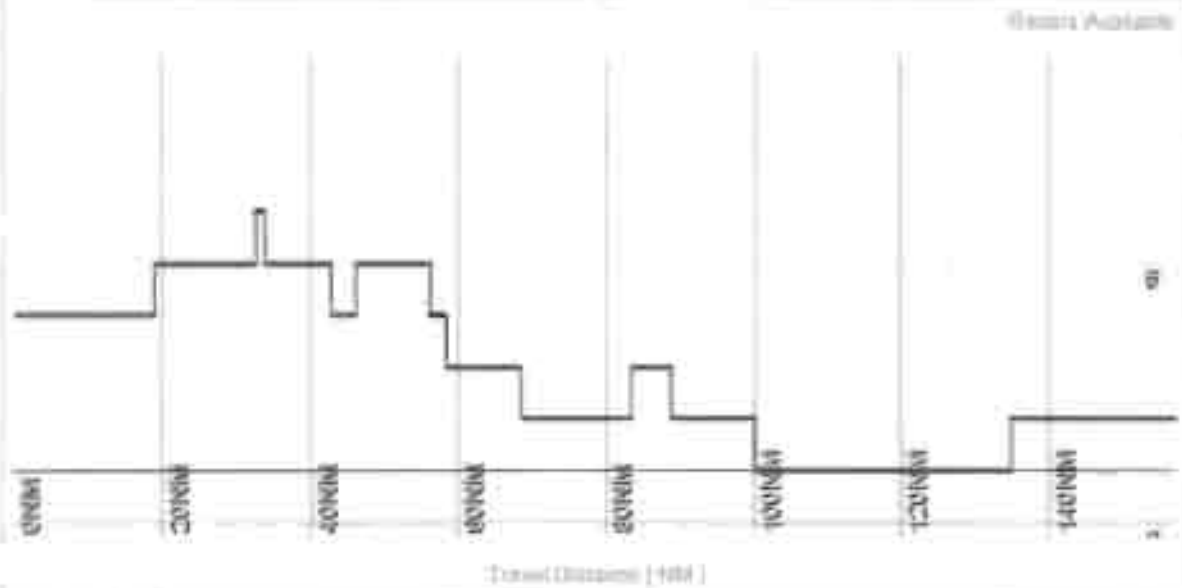
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H	5445.0	117.80	ACH	Used
		ESV:	Bearing [True]: 248.0° to 265.0° Bearing [Mag]: 236.0° to 253.0°		Arc Distance: Out to 55.0 NM Altitude: 10000.0 to 23000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



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Project Name:	
Output File:	COLTR STAR RECKN TACOH 20120423_1137
Procedure Name:	COLTR
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	4/23/2012 11:37:53 AM
Input File:	KABQ COLTR STAR RECKN TACOH 20120423_1129.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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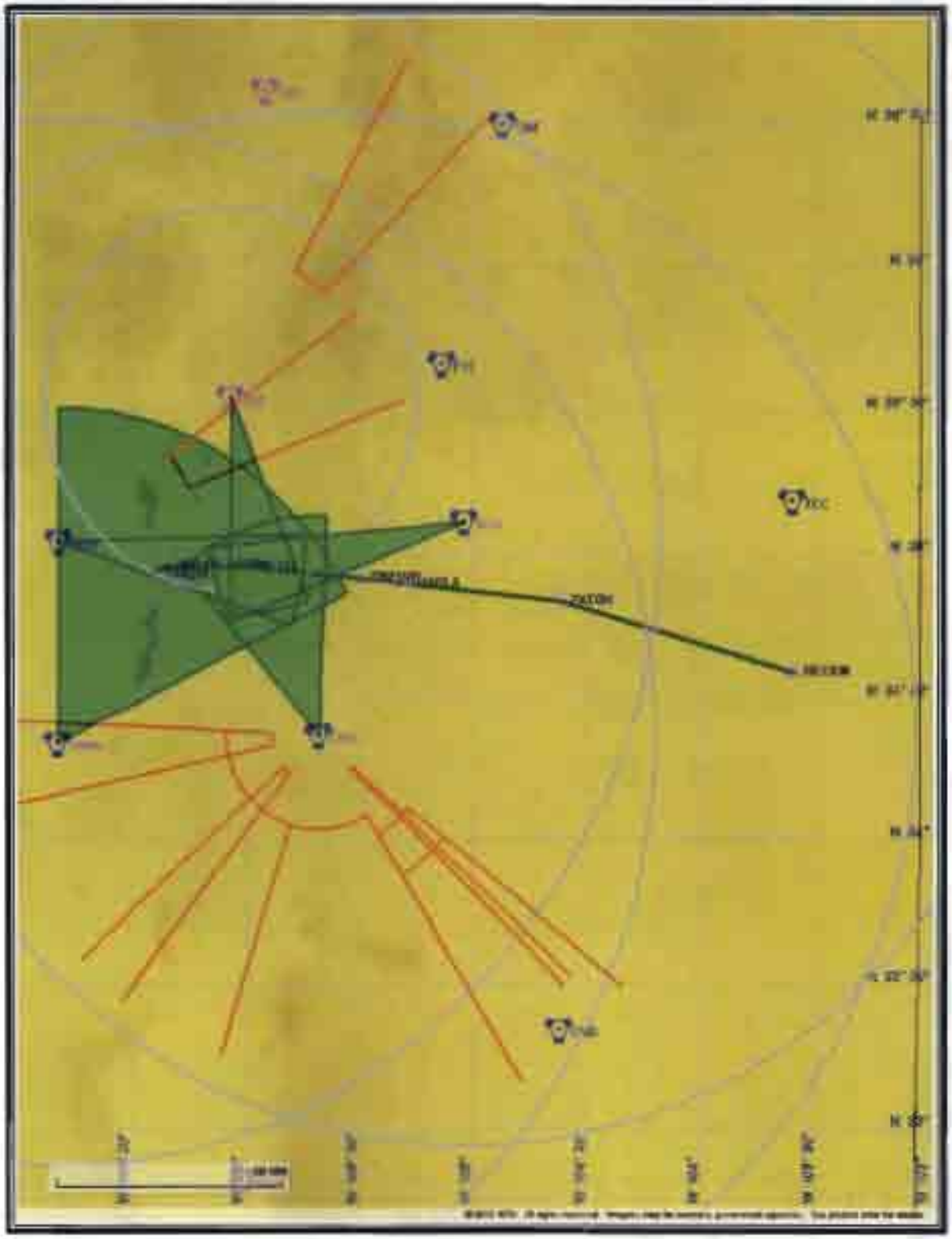

TACOH
RECKN

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RECKN	WP	N 34° 35' 7.59" W 103° 35' 27.10"	28000.0	Step	280.0	Fly By	TF
ZATOX	WP	N 34° 50' 8.71" W 104° 37' 9.58"	28000.0	Step	280.0	Fly By	TF
HABLA	WP	N 34° 53' 42.16" W 105° 17' 15.18"	20000.0	Step	240.0	Fly By	TF
SNEWP	WP	N 34° 54' 50.79" W 105° 29' 30.40"	15000.0	Step	270.0	Fly By	TF
COLTR_	WP	N 34° 57' 22.41" W 106° 0' 43.00"	12000.0	Step	250.0	Fly By	TF
MIERA	WP	N 34° 57' 24.74" W 106° 6' 50.96"	12000.0	Step	210.0	Fly By	TF
YYLEE	WP	N 34° 57' 34.15" W 106° 20' 18.81"	10200.0	Step	180.0	Fly By	TF
TACOH	WP	N 34° 56' 32.06" W 106° 23' 27.29"	10000.0	Step	210.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP SNEWP too high.

DME/DME

Return To Summary

Settings:

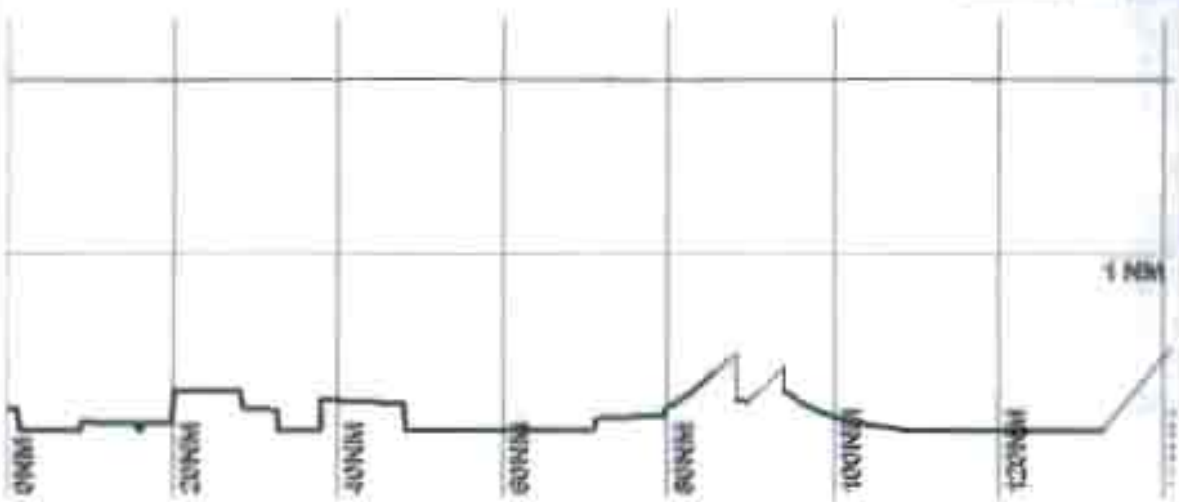
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 10

Maximum DME Error: 0.621 NM

No Critical DMEs were found

Available DMEs: CNX, ACH, CME, FTI, PNH, TCC, TXO, CIM, ABQ, ONM, SAF



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CME	N 33° 20' 14.92" W 104° 37' 16.48" E 12	H	Database	NO	0.621	Enabled	19.0 %	21.4 %
2	FTI	N 35° 39' 27.26" W 105° 8' 8.12" E 13	H	Database	NO	0.621	Enabled	16.6 %	18.5 %
3	TCC	N 35° 10' 55.70" W 103° 35' 54.67" E 12	H	Database	NO	0.987	Enabled	30.3 %	32.6 %
4	TXO	N 34° 29' 42.46" W 102° 50' 22.79" E 11	H	Database	NO	0.621	Enabled	4.4 %	5.4 %
5	ACH	N 35° 6' 42.19" W 106° 2' 23.79" E 12	H + ESV	User	NO	1.190	Enabled	37.9 %	35.7 %
6	CIM	N 36° 29' 29.03" W 104° 52' 19.20" E 13	H	Database	NO	0.621	Enabled	7.3 %	9.0 %
7	PNH	N 35° 14' 6.23" W 101° 41' 56.52" E 8	H	Database	NO	0.621	Enabled	4.8 %	5.9 %
8	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H + ESV	User	NO	1.250	Enabled	20.5 %	20.1 %
9	ABQ	N 35° 2' 37.68" W 106° 48' 58.72" E 13	H + ESV	User	NO	0.877	Enabled	13.3 %	13.3 %
10	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L + ESV	User	NO	0.842	Enabled	18.7 %	15.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	TCC	TXO	CME	FTI	ACH	PNH
16.3	CIM	PNH	CME	CNX	ACH	TCC
32.7	FTI	TCC	CME	CNX	ABQ	TXO
52.1	FTI	TCC	CME	CNX	ACH	ABQ
76.0	ACH	TCC	CME	ONM		
86.1	ACH	TCC	CNX	ONM		
96.3	ACH	SAF	CNX	ABQ		
121.9	ACH	SAF	CNX	ABQ		
127.1	ACH	SAF	CNX	ABQ		
137.7	ABQ					

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 34° 53' 37.21" W 105° 16' 17.19"	N 34° 53' 55.27" W 105° 19' 36.17"	2.7
	VOR: ACH	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
	VOR: CNX	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
	VOR: OTO	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
2	N 34° 54' 5.11" W 105° 21' 20.85"	N 34° 54' 34.37" W 105° 26' 33.82"	4.3
	VOR: ACH	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
	VOR: CNX	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
	VOR: OTO	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
3	N 34° 57' 29.35" W 106° 13' 18.00"	N 34° 56' 32.84" W 106° 23' 24.97"	8.5
	VOR: ABQ	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 56' 32.84" W 106° 23' 24.97"	
	VOR: OTO	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 56' 32.84" W 106° 23' 24.97"	
	VOR: SAF	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 56' 32.84" W 106° 23' 24.97"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	CNX	N 34° 22' 1.26" W 106° 40' 40.82" E 13	H	6412.0	115.50	CNX	Used
	Restriction:	Bearing [True]: 128.0° to 132.0° Bearing [Mag]: 115.0° to 119.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 128.0° to 148.0° Bearing [Mag]: 115.0° to 135.0°			Distance: Beyond 35.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 132.0° to 134.0° Bearing [Mag]: 119.0° to 121.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 134.0° to 148.0° Bearing [Mag]: 121.0° to 135.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 148.0° to 198.0° Bearing [Mag]: 135.0° to 185.0°			Distance: Beyond 20.0 NM Altitude: Below 12000.0 Ft.		
	Restriction:	Bearing [True]: 198.0° to 218.0° Bearing [Mag]: 185.0° to 205.0°			Distance: Beyond 20.0 NM Altitude: Below 13000.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 228.0° Bearing [Mag]: 205.0° to 215.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 273.0° Bearing [Mag]: 205.0° to 260.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 228.0° to 258.0° Bearing [Mag]: 215.0° to 245.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 258.0° to 273.0° Bearing [Mag]: 245.0° to 260.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	ESV:	Bearing [True]: 320.0° to 362.0° Bearing [Mag]: 307.0° to 349.0°			Arc Distance: Out to 46.0 NM Altitude: 10000.0 to 30000.0 Ft.		
2	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H	4910.0	116.80	ONM	Not Used
	ESV:	Bearing [True]: 360.0° to 63.0° Bearing [Mag]: 347.0° to 50.0°			Arc Distance: Out to 70.0 NM Altitude: 8000.0 to 15000.0 Ft.		
3	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L	6263.2	110.60	SAF	Used
	Restriction:	Bearing [True]: 28.0° to 43.0° Bearing [Mag]: 15.0° to 30.0°			Distance: Beyond 30.0 NM Altitude: Below 14600.0 Ft.		
	ESV:	Bearing [True]: 158.0° to 180.0° Bearing [Mag]: 145.0° to 167.0°			Arc Distance: Out to 45.0 NM Altitude: 10000.0 to 23000.0 Ft.		
4	ABQ	N 35° 2' 37.66" W 106° 48' 58.72" E 13	H	5748.5	113.20	ABQ	Used
	Restriction:	Bearing [True]: 53.0° to 68.0° Bearing [Mag]: 40.0° to 55.0°			Distance: Beyond 30.0 NM Altitude: Below 15000.0 Ft.		
	ESV:	Bearing [True]: 88.0° to 109.0° Bearing [Mag]: 75.0° to 96.0°			Arc Distance: Out to 53.0 NM Altitude: 10000.0 to 23000.0 Ft.		

DME/DME (Continued.)

Return To Summary

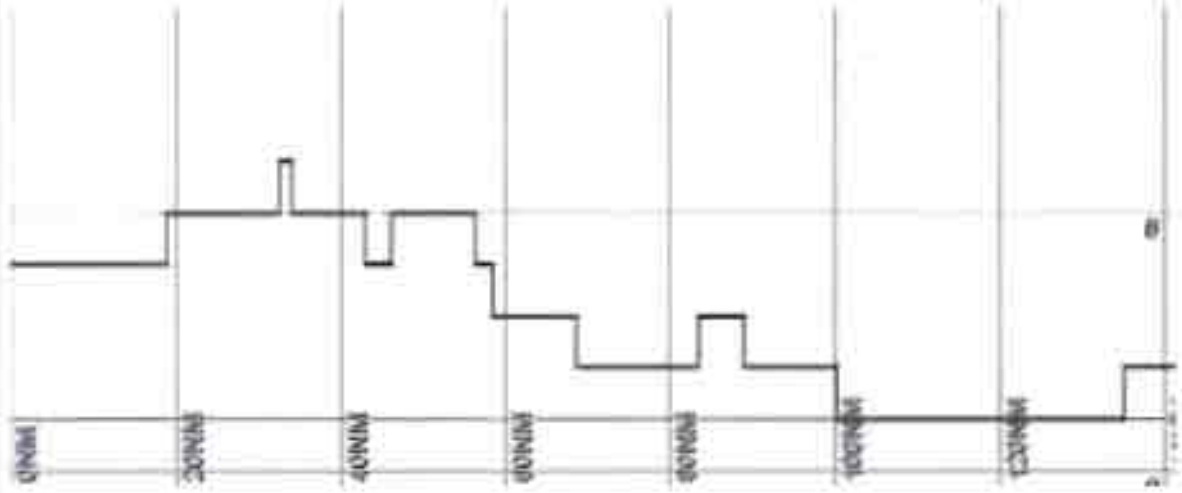
User DMEs (Continued.)

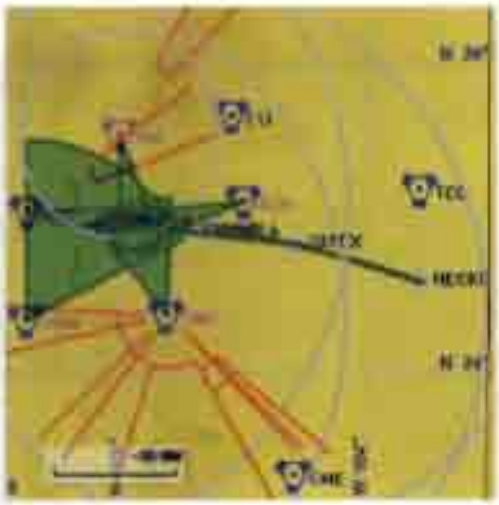
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H	5445.0	117.80	ACH	Used
		ESV:	Bearing [True]: 248.0° to 265.0° Bearing [Mag]: 236.0° to 253.0°		Arc Distance: Out to 55.0 NM Altitude: 10000.0 to 23000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





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Project Name:	
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Procedure Name:	COLTR
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	4/23/2012 11:47:41 AM
Input File:	KABQ COLTR STAR RECKN TACOH 20120423_1139.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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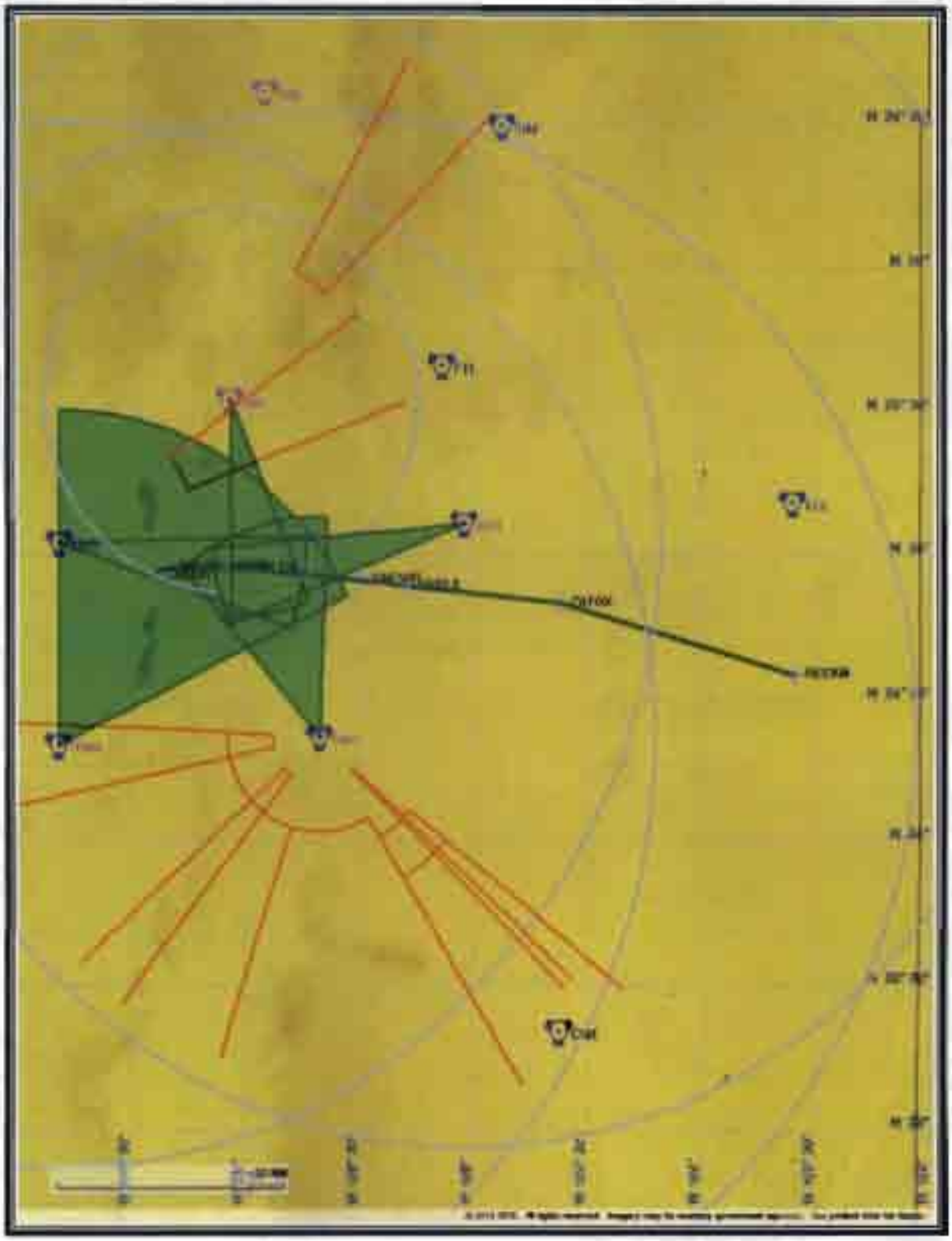


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RECKN	WP	N 34° 35' 7.59" W 103° 35' 27.10"	28000.0	Step	280.0	Fly By	TF
ZATOX	WP	N 34° 50' 8.71" W 104° 37' 9.58"	28000.0	Step	280.0	Fly By	TF
HABLA	WP	N 34° 53' 42.16" W 105° 17' 15.18"	20000.0	Step	240.0	Fly By	TF
SNEWP	WP	N 34° 54' 50.79" W 105° 29' 30.40"	15000.0	Step	270.0	Fly By	TF
COLTR_	WP	N 34° 57' 22.41" W 106° 0' 43.00"	12000.0	Step	250.0	Fly By	TF
MIERA	WP	N 34° 57' 24.74" W 106° 6' 50.96"	12000.0	Step	210.0	Fly By	TF
YYLEE	WP	N 34° 57' 34.15" W 106° 20' 18.81"	10200.0	Step	180.0	Fly By	TF
TACOH	WP	N 34° 56' 32.06" W 106° 23' 27.29"	10000.0	Step	210.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP SNEWP too high.

DME/DME

Return To Summary

Settings:

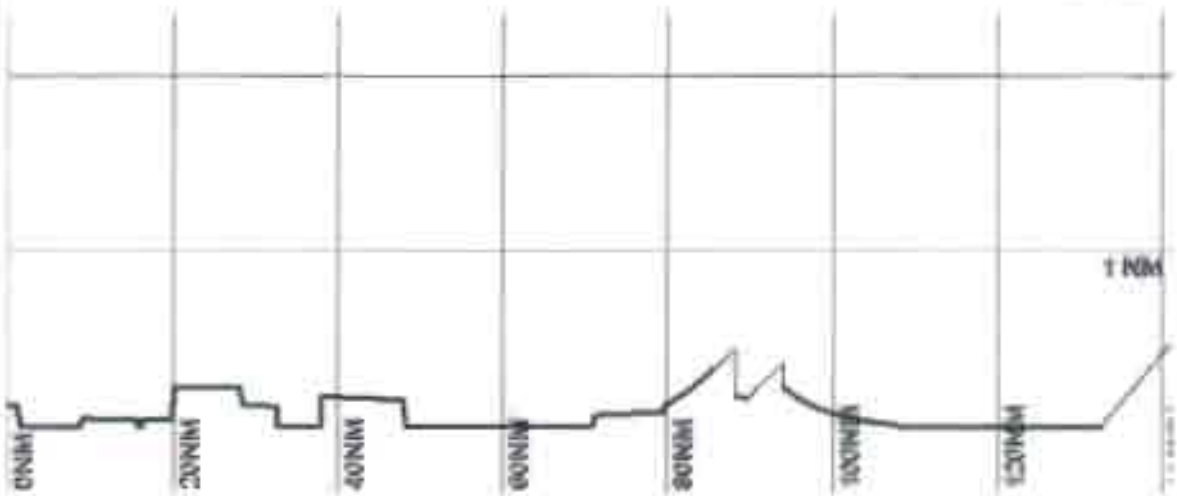
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.556 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 10

Maximum DME Error: 0.621 NM

No Critical DMEs were found.

Available DMEs: CNX, ACH, CME, FTI, PNH, TCC, TXO, CIM, ABQ, ONM, SAF



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CME	N 33° 20' 14.92" W 104° 37' 16.48" E 12	H	Database	NO	0.621	Enabled	19.0 %	21.4 %
2	FTI	N 35° 39' 27.26" W 105° 8' 8.12" E 13	H	Database	NO	0.621	Enabled	15.6 %	18.5 %
3	TCC	N 35° 10' 55.70" W 103° 35' 54.67" E 12	H	Database	NO	0.987	Enabled	30.3 %	32.6 %
4	TXO	N 34° 29' 42.46" W 102° 50' 22.79" E 11	H	Database	NO	0.621	Enabled	4.4 %	5.4 %
5	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H + ESV	User	NO	1.190	Enabled	37.9 %	35.7 %
6	CIM	N 36° 29' 29.03" W 104° 52' 19.20" E 13	H	Database	NO	0.621	Enabled	7.3 %	9.0 %
7	PNH	N 35° 14' 6.23" W 101° 41' 56.52" E 8	H	Database	NO	0.621	Enabled	4.8 %	5.9 %
8	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H + ESV	User	NO	1.250	Enabled	20.5 %	20.1 %
9	ABQ	N 35° 2' 37.66" W 106° 48' 58.72" E 13	H + ESV	User	NO	0.877	Enabled	13.3 %	13.3 %
10	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L + ESV	User	NO	0.842	Enabled	18.7 %	15.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	TCC	TXO	CME	FTI	ACH	PNH
16.3	CIM	PNH	CME	CNX	ACH	TCC
32.7	FTI	TCC	CME	CNX	ABQ	TXO
52.1	FTI	TCC	CME	CNX	ACH	ABQ
76.0	ACH	TCC	CME	ONM		
86.1	ACH	TCC	CNX	ONM		
96.3	ACH	SAF	CNX	ABQ		
121.9	ACH	SAF	CNX	ABQ		
127.1	ACH	SAF	CNX	ABQ		
137.7	ABQ					

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 34° 53' 37.21" W 105° 16' 17.19"	N 34° 53' 55.27" W 105° 19' 36.17"	2.7
	VOR: ACH	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
	VOR: CNX	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
	VOR: OTO	Available from N 34° 53' 37.21" W 105° 16' 17.19" to N 34° 53' 55.27" W 105° 19' 36.17"	
2	N 34° 54' 5.11" W 105° 21' 20.85"	N 34° 54' 34.37" W 105° 26' 33.82"	4.3
	VOR: ACH	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
	VOR: CNX	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
	VOR: OTO	Available from N 34° 54' 5.11" W 105° 21' 20.85" to N 34° 54' 34.37" W 105° 26' 33.82"	
3	N 34° 57' 29.35" W 106° 13' 18.00"	N 34° 56' 32.84" W 106° 23' 24.97"	8.5
	VOR: ABQ	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 56' 32.84" W 106° 23' 24.97"	
	VOR: OTO	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 56' 32.84" W 106° 23' 24.97"	
	VOR: SAF	Available from N 34° 57' 29.35" W 106° 13' 18.00" to N 34° 56' 32.84" W 106° 23' 24.97"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	CNX	N 34° 22' 1.28" W 105° 40' 40.82" E 13	H	6412.0	115.50	CNX	Used
	Restriction:	Bearing [True]: 126.0° to 132.0° Bearing [Mag]: 115.0° to 119.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 128.0° to 148.0° Bearing [Mag]: 115.0° to 135.0°			Distance: Beyond 35.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 132.0° to 134.0° Bearing [Mag]: 119.0° to 121.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 134.0° to 148.0° Bearing [Mag]: 121.0° to 135.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 148.0° to 198.0° Bearing [Mag]: 135.0° to 185.0°			Distance: Beyond 20.0 NM Altitude: Below 12000.0 Ft.		
	Restriction:	Bearing [True]: 198.0° to 218.0° Bearing [Mag]: 185.0° to 205.0°			Distance: Beyond 20.0 NM Altitude: Below 13000.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 228.0° Bearing [Mag]: 205.0° to 215.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 273.0° Bearing [Mag]: 205.0° to 260.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 228.0° to 258.0° Bearing [Mag]: 215.0° to 245.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 258.0° to 273.0° Bearing [Mag]: 245.0° to 260.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	ESV:	Bearing [True]: 320.0° to 362.0° Bearing [Mag]: 307.0° to 349.0°			Arc Distance: Out to 46.0 NM Altitude: 10000.0 to 30000.0 Ft.		
2	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H	4910.0	116.80	ONM	Not Used
	ESV:	Bearing [True]: 360.0° to 63.0° Bearing [Mag]: 347.0° to 50.0°			Arc Distance: Out to 70.0 NM Altitude: 8000.0 to 15000.0 Ft.		
3	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L	6293.2	110.60	SAF	Used
	Restriction:	Bearing [True]: 28.0° to 43.0° Bearing [Mag]: 15.0° to 30.0°			Distance: Beyond 30.0 NM Altitude: Below 14600.0 Ft.		
	ESV:	Bearing [True]: 158.0° to 180.0° Bearing [Mag]: 145.0° to 167.0°			Arc Distance: Out to 45.0 NM Altitude: 10000.0 to 23000.0 Ft.		
4	ABQ	N 35° 2' 37.66" W 106° 48' 58.72" E 13	H	5748.5	113.20	ABQ	Used
	Restriction:	Bearing [True]: 53.0° to 68.0° Bearing [Mag]: 40.0° to 55.0°			Distance: Beyond 30.0 NM Altitude: Below 15000.0 Ft.		
	ESV:	Bearing [True]: 88.0° to 109.0° Bearing [Mag]: 75.0° to 96.0°			Arc Distance: Out to 53.0 NM Altitude: 10000.0 to 23000.0 Ft.		

DME/DME (Continued.)

Return To Summary

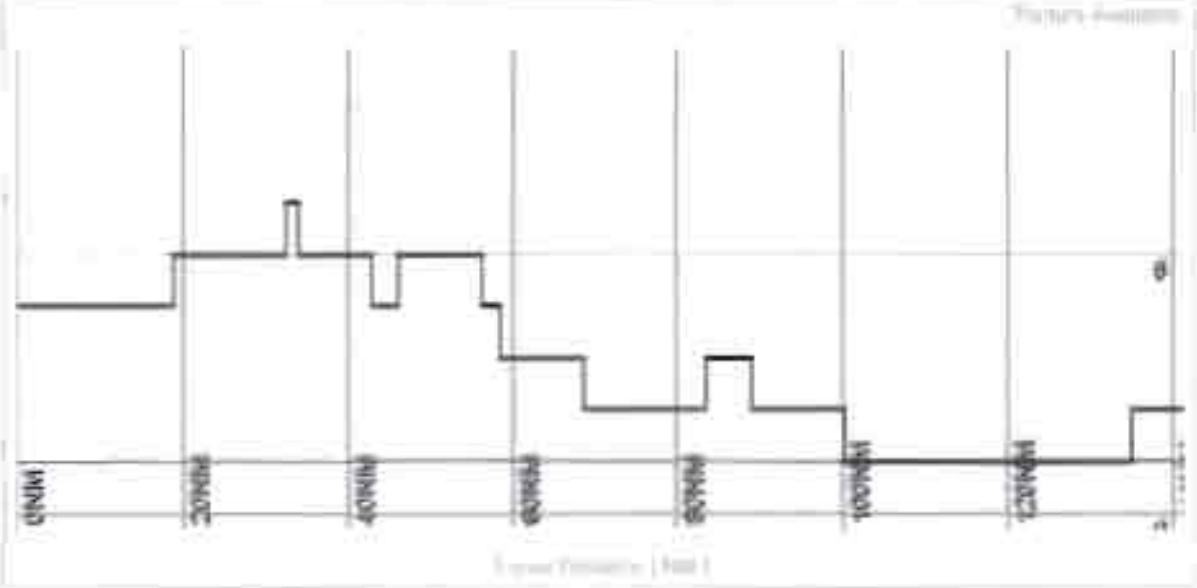
User DMEs (Continued.)

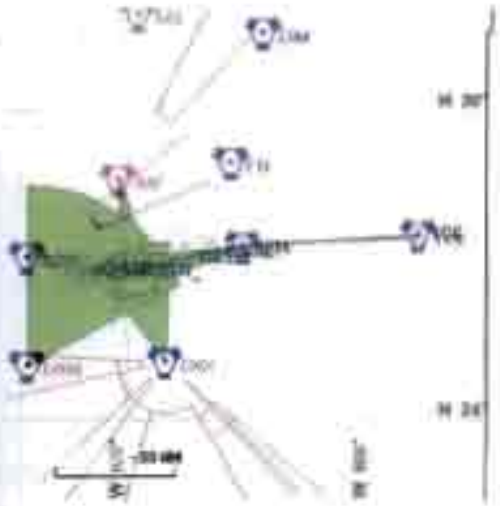
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
9	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H	5445.0	117.80	ACH	Used
		ESV:	Bearing [True]: 248.0° to 265.0° Bearing [Mag]: 236.0° to 253.0°		Arc Distance: Out to 55.0 NM Altitude: 10000.0 to 23000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





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Version:	2.36
Date/Time:	7/24/2012 2:22:12 PM
Input File:	KABQ COLTR STAR TCC TACOH 20120423_1211.txt
Databases:	AVNIS Date: 02/07/2012 Obstacle Date: 08/26/2011 NFD Date: 09/30/2010 DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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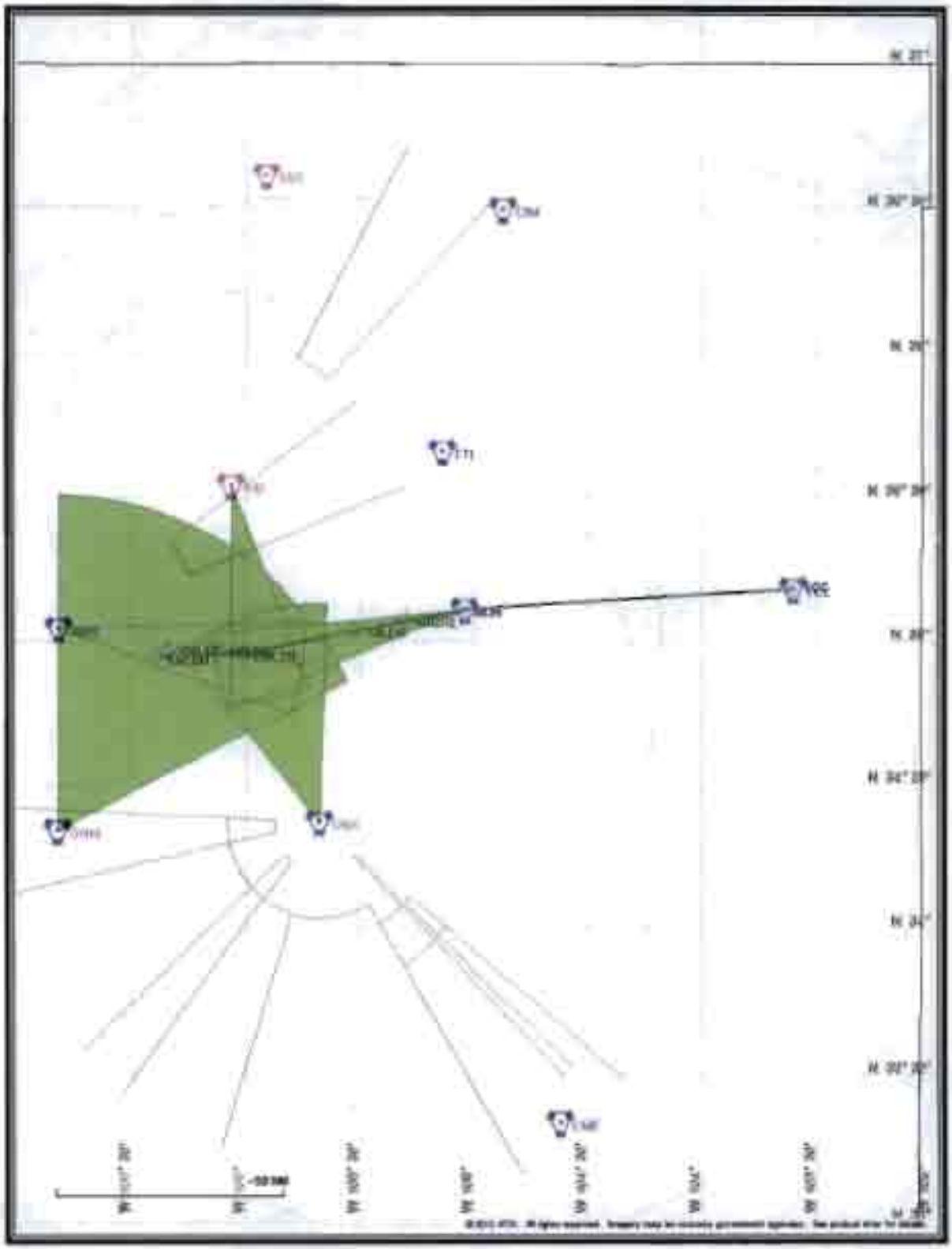


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
TCC	WP	N 35° 10' 55.94" W 103° 35' 54.89"	28000.0	Step	280.0	Fly By	TF
ACH	WP	N 35° 6' 42.19" W 105° 2' 23.79"	28000.0	Step	280.0	Fly By	TF
BIGRE	WP	N 35° 4' 30.79" W 105° 17' 26.03"	26000.0	Step	280.0	Fly By	TF
TALLR	WP	N 35° 2' 19.99" W 105° 30' 51.53"	21000.0	Step	270.0	Fly By	TF
COLTR_	WP	N 34° 57' 22.41" W 106° 0' 43.00"	12000.0	Step	250.0	Fly By	TF
MIERA	WP	N 34° 57' 24.74" W 106° 6' 50.96"	12000.0	Step	210.0	Fly By	TF
YYLEE	WP	N 34° 57' 34.15" W 106° 20' 18.81"	10200.0	Step	180.0	Fly By	TF
TACOH	WP	N 34° 56' 32.06" W 106° 23' 27.29"	10000.0	Step	210.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP TALLR too high.

DME/DME

Return To Summary

Settings:

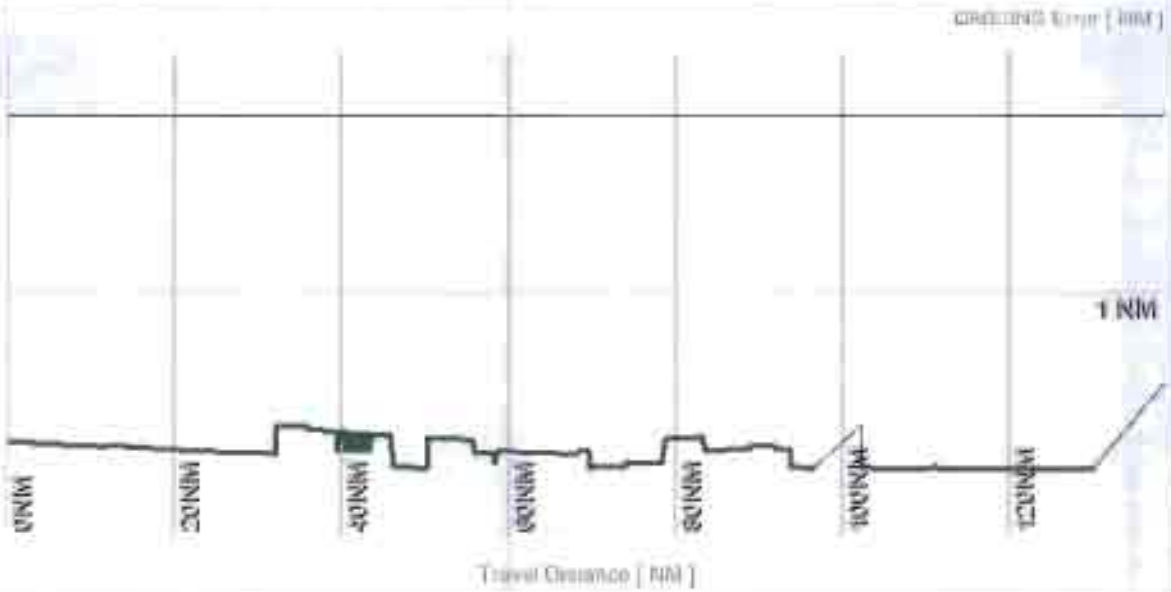
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 11

Maximum DME Error: 0.630 NM

No Critical DMEs were found.

Available DMEs: CNX, ACH, CIM, CME, FTI, PNH, TXO, TCC, ABQ, ONM, SAF



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CME	N 33° 20' 14.92" W 104° 37' 16.48" E 12	H	Database	NO	0.736	Enabled	26.5 %	32.3 %
2	FTI	N 35° 39' 27.26" W 105° 8' 8.12" E 13	H	Database	NO	0.630	Enabled	15.5 %	17.6 %
3	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H + ESV	User	NO	0.638	Enabled	27.4 %	27.9 %
4	CIM	N 36° 29' 29.03" W 104° 52' 19.20" E 13	H	Database	NO	0.630	Enabled	22.1 %	25.6 %
5	PNH	N 35° 14' 6.23" W 101° 41' 56.52" E 8	H	Database	NO	0.630	Enabled	2.4 %	2.7 %
6	ABQ	N 35° 2' 37.66" W 106° 48' 56.72" E 13	H + ESV	User	NO	0.880	Enabled	27.9 %	28.5 %
7	TCC	N 35° 10' 55.70" W 103° 35' 54.67" E 12	H	Database	NO	0.630	Enabled	6.6 %	7.6 %
8	TXO	N 34° 29' 42.46" W 102° 50' 22.79" E 11	H	Database	NO	0.630	Enabled	3.0 %	3.5 %
9	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H + ESV	User	NO	0.631	Enabled	21.5 %	18.9 %
10	ONM	N 34° 20' 20.04" W 106° 48' 13.69" E 13	H + ESV	User	NO	0.630	Enabled	2.0 %	2.1 %
11	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L + ESV	User	NO	0.844	Enabled	15.2 %	12.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	CME	FTI	CNX	CIM	ACH	TXO
17.9	CME	FTI	CNX	CIM	PNH	TXO
35.8	CME	ABQ	CNX	TCC	PNH	FTI
45.9	CME	ABQ	CNX	TCC	FTI	CIM
58.1	CME	ABQ	CIM	TCC	FTI	CNX
70.4	TXO	ABQ	CIM	TCC	FTI	CNX
83.4	CNX	ABQ	ACH	CME	ONM	CIM
94.8	CNX	ABQ	ACH	SAF	CIM	TCC
119.3	CNX	ABQ	ACH	SAF		
124.8	CNX	ABQ	ACH	SAF		
135.4	ABQ					

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 35° 1' 59.68" W 105° 32' 54.87"	N 35° 0' 53.30" W 105° 39' 38.42"	5.6
	VOR: ACH	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: OTO	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: SAF	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: CNX	Available from N 35° 1' 44.38" W 105° 34' 28.01" to N 35° 0' 53.30" W 105° 39' 38.42"	
2	N 34° 57' 29.20" W 106° 13' 3.62"	N 34° 56' 32.27" W 106° 23' 26.68"	8.7
	VOR: ABQ	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 56' 32.27" W 106° 23' 26.68"	
	VOR: OTO	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 56' 32.27" W 106° 23' 26.68"	
	VOR: SAF	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 56' 32.27" W 106° 23' 26.68"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H	6412.0	115.50	CNX	Used
	Restriction:	Bearing [True]: 128.0° to 132.0° Bearing [Mag]: 115.0° to 119.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 128.0° to 148.0° Bearing [Mag]: 115.0° to 135.0°			Distance: Beyond 35.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 132.0° to 134.0° Bearing [Mag]: 119.0° to 121.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 134.0° to 148.0° Bearing [Mag]: 121.0° to 135.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 148.0° to 198.0° Bearing [Mag]: 135.0° to 185.0°			Distance: Beyond 20.0 NM Altitude: Below 12000.0 Ft.		
	Restriction:	Bearing [True]: 198.0° to 218.0° Bearing [Mag]: 185.0° to 205.0°			Distance: Beyond 20.0 NM Altitude: Below 13000.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 228.0° Bearing [Mag]: 205.0° to 215.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 273.0° Bearing [Mag]: 205.0° to 260.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 228.0° to 258.0° Bearing [Mag]: 215.0° to 245.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 258.0° to 273.0° Bearing [Mag]: 245.0° to 260.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	ESV:	Bearing [True]: 320.0° to 362.0° Bearing [Mag]: 307.0° to 349.0°			Arc Distance: Out to 46.0 NM Altitude: 10000.0 to 30000.0 Ft.		
2	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H	4910.0	116.60	ONM	Used
	ESV:	Bearing [True]: 360.0° to 63.0° Bearing [Mag]: 347.0° to 50.0°			Arc Distance: Out to 70.0 NM Altitude: 6000.0 to 15000.0 Ft.		
3	SAF	N 35° 32' 25.95" W 106° 3' 53.91" E 13	L	6263.2	110.60	SAF	Used
	Restriction:	Bearing [True]: 28.0° to 43.0° Bearing [Mag]: 15.0° to 30.0°			Distance: Beyond 30.0 NM Altitude: Below 14600.0 Ft.		
	ESV:	Bearing [True]: 158.0° to 180.0° Bearing [Mag]: 145.0° to 167.0°			Arc Distance: Out to 45.0 NM Altitude: 10000.0 to 23000.0 Ft.		
4	ABQ	N 35° 2' 37.66" W 106° 48' 58.72" E 13	H	5748.5	113.20	ABQ	Used
	Restriction:	Bearing [True]: 53.0° to 68.0° Bearing [Mag]: 40.0° to 55.0°			Distance: Beyond 30.0 NM Altitude: Below 15000.0 Ft.		
	ESV:	Bearing [True]: 88.0° to 109.0° Bearing [Mag]: 75.0° to 96.0°			Arc Distance: Out to 53.0 NM Altitude: 10000.0 to 23000.0 Ft.		

DME/DME (Continued.)

Return To Summary

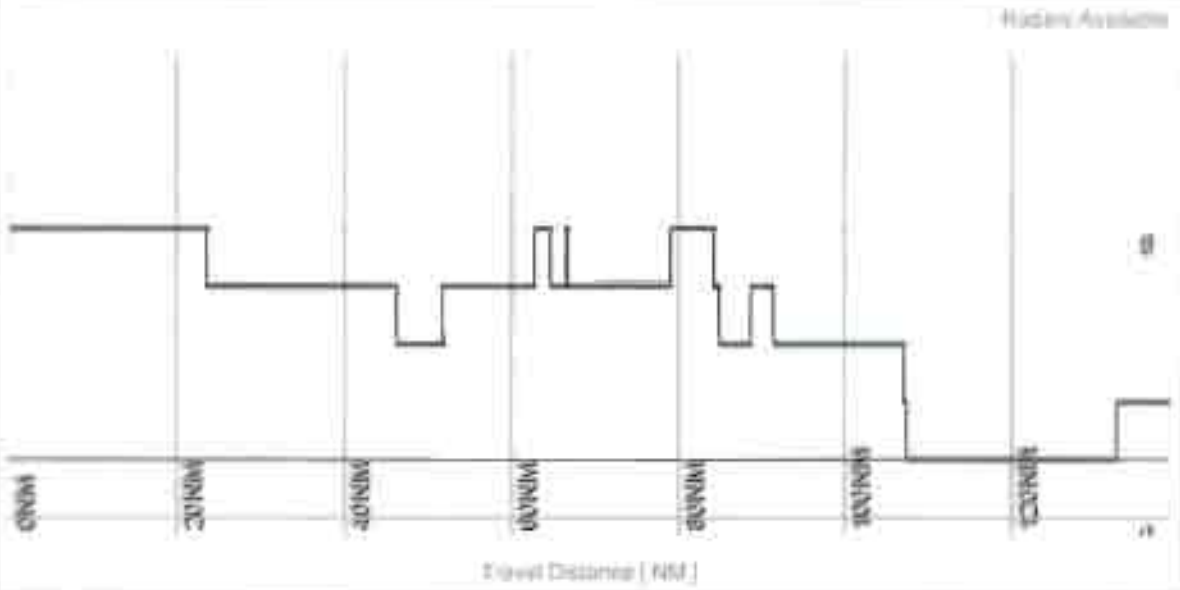
User DMEs (Continued.)

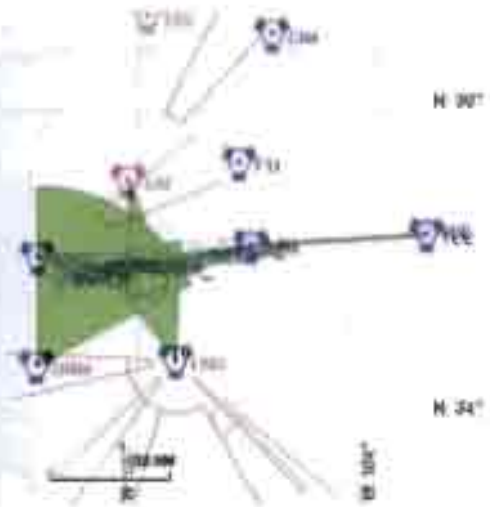
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	ACH	N 35° 6' 42.18" W 105° 2' 23.79" E 12	H	5445.0	117.80	ACH	Used
		ESV:	Bearing [True]: 248.0° to 265.0° Bearing [Mag]: 236.0° to 253.0°		Arc Distance: Out to 55.0 NM Altitude: 10000.0 to 23000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





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Version:	2.36
Date/Time:	7/24/2012 1:40:11 PM
Input File:	KABQ COLTR STAR TCC NUCLR 20120423_1148.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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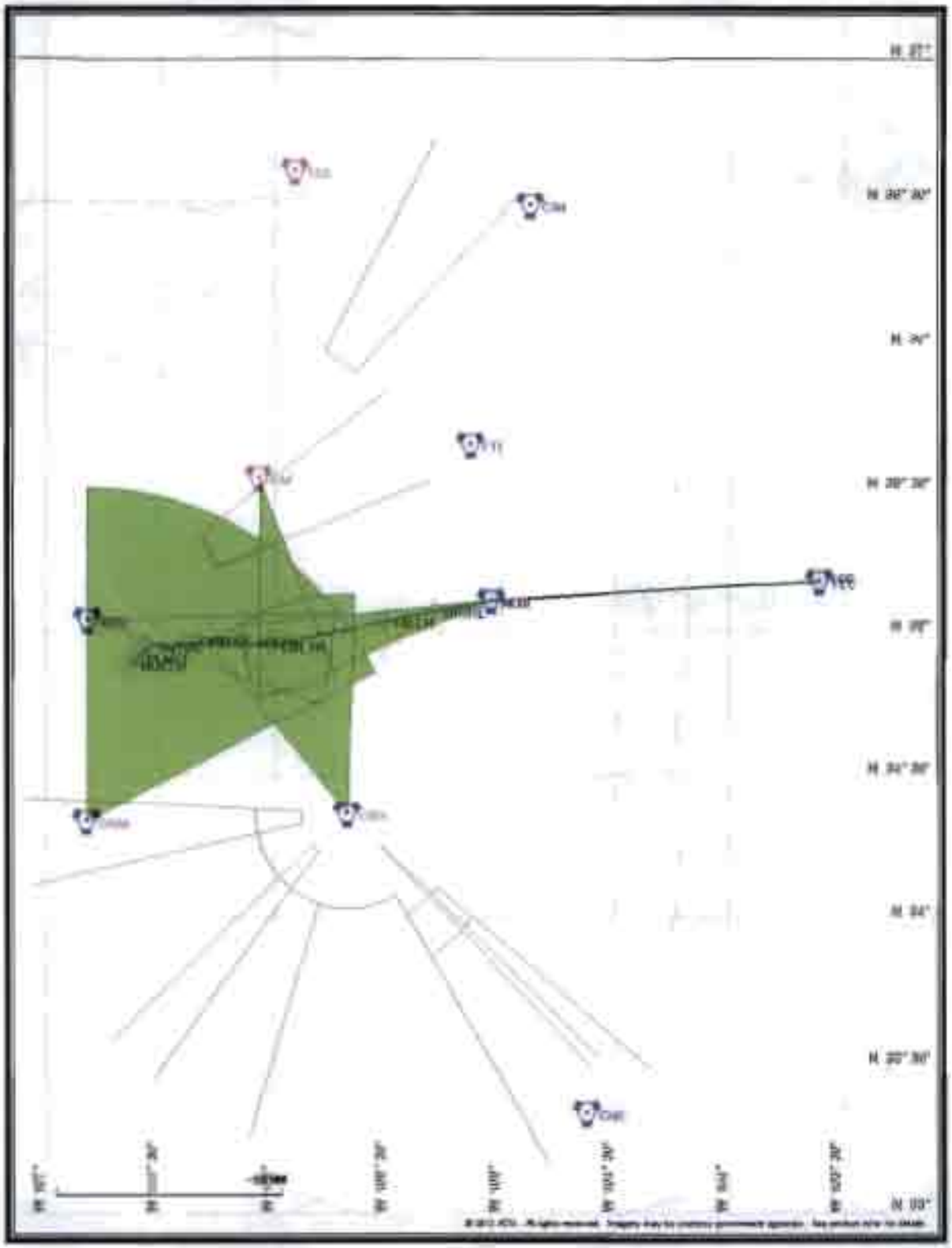


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
TCC	WP	N 35° 10' 55.94" W 103° 35' 54.89"	28000.0	Step	280.0	Fly By	TF
ACH	WP	N 35° 6' 42.19" W 105° 2' 23.79"	28000.0	Step	280.0	Fly By	TF
BIGRE	WP	N 35° 4' 30.79" W 105° 17' 26.03"	26000.0	Step	280.0	Fly By	TF
TALLR	WP	N 35° 2' 19.99" W 105° 30' 51.53"	21000.0	Step	270.0	Fly By	TF
COLTR_	WP	N 34° 57' 22.41" W 106° 0' 43.00"	12000.0	Step	250.0	Fly By	TF
MIERA	WP	N 34° 57' 24.74" W 106° 6' 50.96"	12000.0	Step	210.0	Fly By	TF
YYLEE	WP	N 34° 57' 34.15" W 106° 20' 18.81"	10200.0	Step	180.0	Fly By	TF
CYOTE	WP	N 34° 57' 35.69" W 106° 22' 44.80"	10200.0	Step	210.0	Fly By	TF
TNTOE	WP	N 34° 57' 15.59" W 106° 33' 7.75"	10000.0	Step	180.0	Fly By	TF
PLNET	WP	N 34° 54' 50.99" W 106° 36' 7.51"	8200.0	Step	180.0	Fly By	TF
NUCLR	WP	N 34° 53' 26.97" W 106° 37' 51.84"	7800.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP TALLR too high.

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 11

Maximum DME Error 0.584 NM

No Critical DMEs were found

Available DMEs: CNX, ACH, CIM, CME, FTI, PNH, TXO, TCC, ABQ, ONM, SAF

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CME	N 33° 20' 14.92" W 104° 37' 16.48" E 12	H	Database	NO	0.736	Enabled	25.0 %	29.5 %
2	FTI	N 35° 39' 27.26" W 105° 8' 8.12" E 13	H	Database	NO	0.584	Enabled	13.6 %	16.3 %
3	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H + ESV	User	NO	0.638	Enabled	24.1 %	25.5 %
4	CIM	N 36° 29' 29.03" W 104° 52' 19.20" E 13	H	Database	NO	0.584	Enabled	19.4 %	23.4 %
5	PNH	N 35° 14' 6.23" W 101° 41' 56.52" E 8	H	Database	NO	0.584	Enabled	2.1 %	2.5 %
6	ABQ	N 35° 2' 37.66" W 106° 46' 58.72" E 13	H + ESV	User	NO	1.405	Enabled	37.8 %	35.5 %
7	TCC	N 35° 10' 55.70" W 103° 35' 54.87" E 12	H	Database	NO	0.584	Enabled	5.8 %	7.0 %
8	TXO	N 34° 29' 42.46" W 102° 50' 22.79" E 11	H	Database	NO	0.584	Enabled	2.6 %	3.2 %
9	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H + ESV	User	NO	0.631	Enabled	18.9 %	17.3 %
10	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H + ESV	User	NO	1.157	Enabled	15.1 %	11.3 %
11	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L + ESV	User	NO	0.797	Enabled	13.4 %	11.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	CME	FTI	CNX	CIM	ACH	TXO
17.9	CME	FTI	CNX	CIM	PNH	TXO
35.8	CME	ABQ	CNX	TCC	PNH	FTI
45.9	CME	ABQ	CNX	TCC	FTI	CIM
58.1	CME	ABQ	CIM	TCC	FTI	CNX
70.4	TXO	ABQ	CIM	TCC	FTI	CNX
83.4	CNX	ABQ	ACH	CME	ONM	CIM
94.8	CNX	ABQ	ACH	SAF	CIM	TCC
119.3	CNX	ABQ	ACH	SAF		
124.8	CNX	ABQ	ACH	SAF		
135.9	ONM	ABQ				
137.8	ONM	ABQ				
145.8	ONM	ABQ				

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
146.9	ONM	ABQ				

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 35° 1' 59.68" W 105° 32' 54.87"	N 35° 0' 53.30" W 105° 39' 38.42"	5.6
	VOR: ACH	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: OTO	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: SAF	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: CNX	Available from N 35° 1' 44.38" W 105° 34' 26.01" to N 35° 0' 53.30" W 105° 39' 38.42"	
2	N 34° 57' 29.20" W 106° 13' 3.62"	N 34° 57' 35.39" W 106° 22' 15.11"	7.6
	VOR: ABQ	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 57' 35.39" W 106° 22' 15.11"	
	VOR: OTO	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 57' 35.39" W 106° 22' 15.11"	
	VOR: SAF	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 57' 35.39" W 106° 22' 15.11"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	CNX	N 34° 22' 1.26" W 106° 40' 40.82" E 13	H	5412.0	115.50	CNX	Used
	Restriction:	Bearing [True]: 128.0° to 132.0° Bearing [Mag]: 115.0° to 119.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 128.0° to 148.0° Bearing [Mag]: 115.0° to 135.0°			Distance: Beyond 35.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 132.0° to 134.0° Bearing [Mag]: 119.0° to 121.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 134.0° to 148.0° Bearing [Mag]: 121.0° to 135.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 148.0° to 198.0° Bearing [Mag]: 135.0° to 185.0°			Distance: Beyond 20.0 NM Altitude: Below 12000.0 Ft.		
	Restriction:	Bearing [True]: 198.0° to 218.0° Bearing [Mag]: 185.0° to 205.0°			Distance: Beyond 20.0 NM Altitude: Below 13000.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 228.0° Bearing [Mag]: 205.0° to 215.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 273.0° Bearing [Mag]: 205.0° to 260.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 228.0° to 258.0° Bearing [Mag]: 215.0° to 245.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 258.0° to 273.0° Bearing [Mag]: 245.0° to 260.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	ESV:	Bearing [True]: 320.0° to 362.0° Bearing [Mag]: 307.0° to 349.0°			Arc Distance: Out to 46.0 NM Altitude: 10000.0 to 30000.0 Ft.		
2	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H	4910.0	116.80	ONM	Used
	ESV:	Bearing [True]: 360.0° to 63.0° Bearing [Mag]: 347.0° to 50.0°			Arc Distance: Out to 70.0 NM Altitude: 8000.0 to 15000.0 Ft.		
3	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L	6263.2	110.60	SAF	Used
	Restriction:	Bearing [True]: 28.0° to 43.0° Bearing [Mag]: 15.0° to 30.0°			Distance: Beyond 30.0 NM Altitude: Below 14600.0 Ft.		
	ESV:	Bearing [True]: 158.0° to 180.0° Bearing [Mag]: 145.0° to 167.0°			Arc Distance: Out to 45.0 NM Altitude: 10000.0 to 23000.0 Ft.		
4	ABQ	N 35° 2' 37.86" W 106° 46' 58.72" E 13	H	5748.5	113.20	ABQ	Used
	Restriction:	Bearing [True]: 53.0° to 68.0° Bearing [Mag]: 40.0° to 55.0°			Distance: Beyond 30.0 NM Altitude: Below 15000.0 Ft.		
	ESV:	Bearing [True]: 88.0° to 109.0° Bearing [Mag]: 75.0° to 96.0°			Arc Distance: Out to 53.0 NM Altitude: 10000.0 to 23000.0 Ft.		

DME/DME (Continued.)

Return To Summary

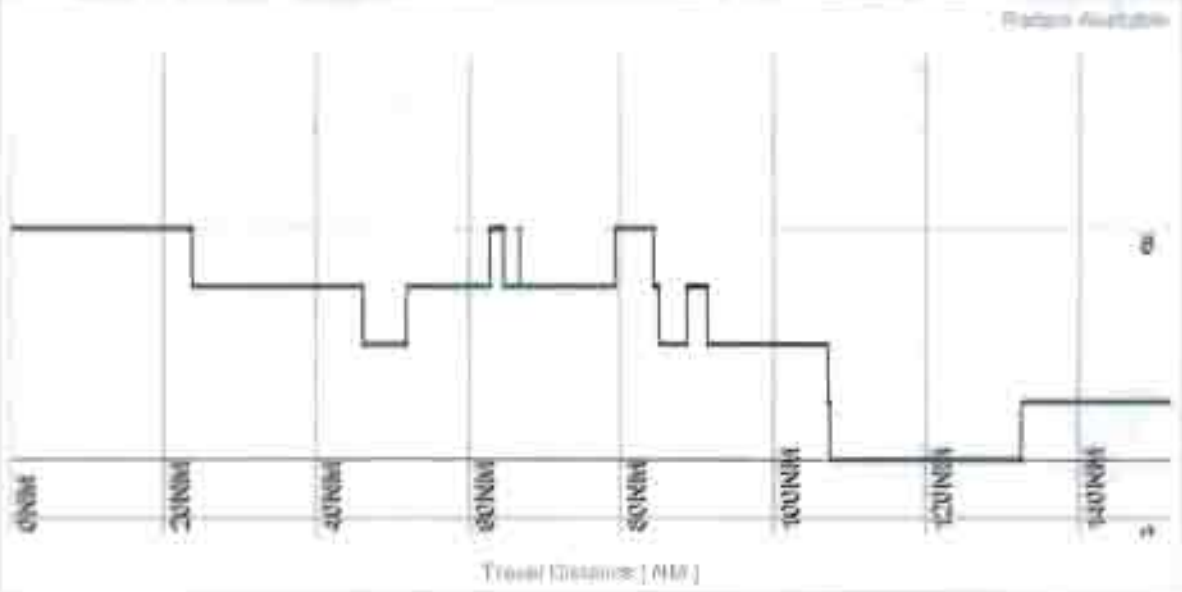
User DMEs (Continued.)

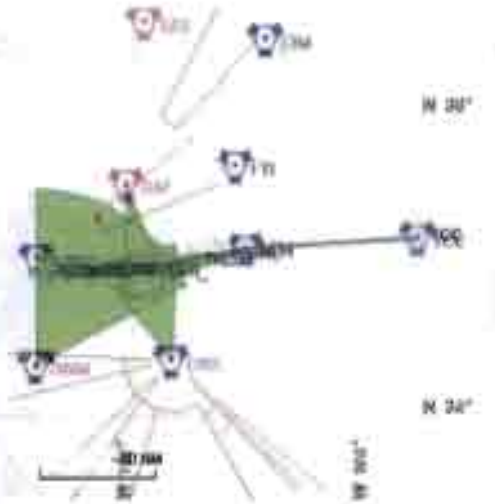
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces	Status
5	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H	5445.0	117.80	ACH	Used
		ESV	Bearing [True] 248.0° to 265.0° Bearing [Mag] 236.0° to 253.0°		Arc Distance: Out to 55.0 NM Altitude: 10000.0 to 23000.0 Ft		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





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Project Name:	
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Version:	2.36
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Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ Please Check Flyability Results
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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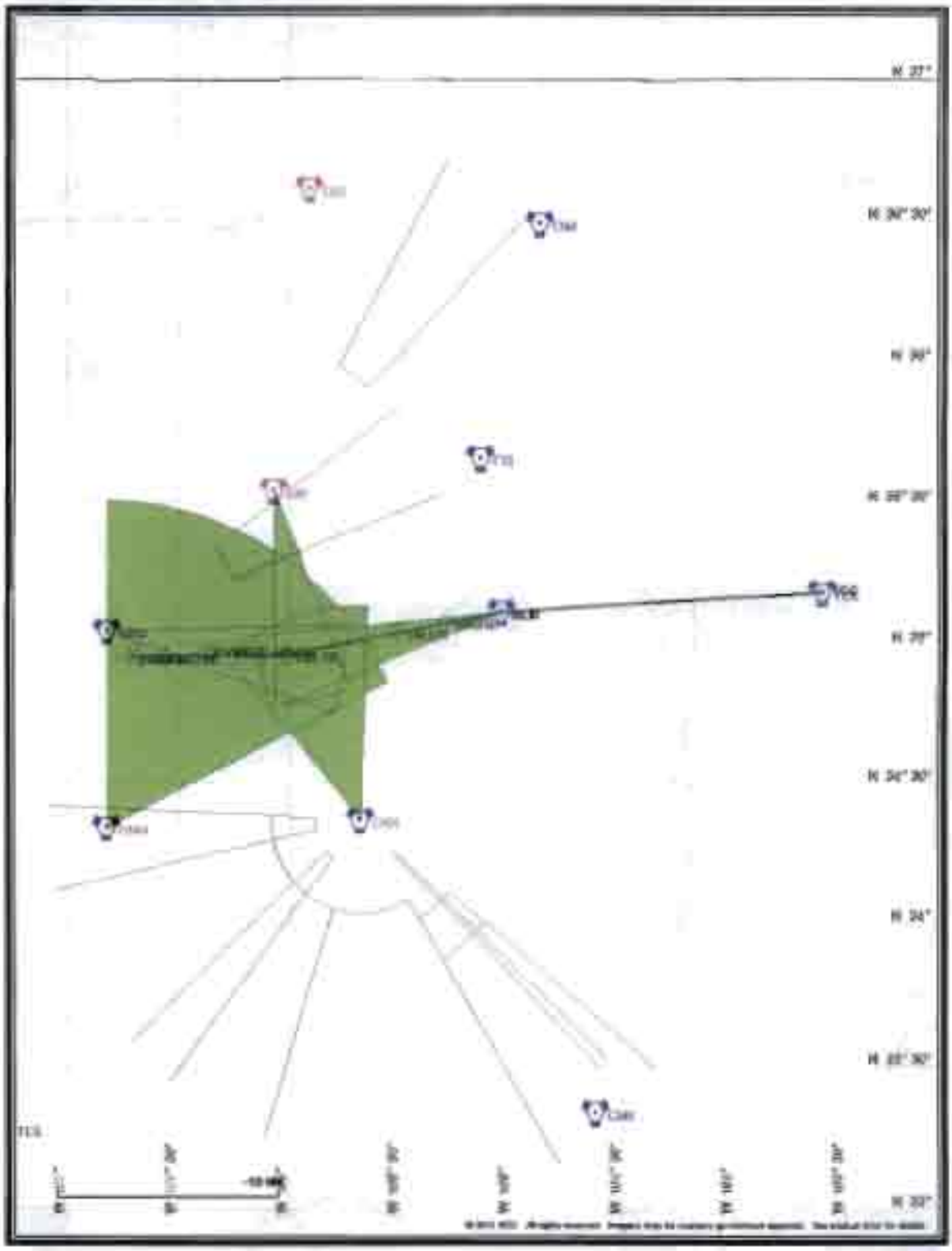


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
TCC	WP	N 35° 10' 55.94" W 103° 35' 54.89"	28000.0	Step	280.0	Fly By	TF
ACH	WP	N 35° 8' 42.19" W 105° 2' 23.79"	28000.0	Step	280.0	Fly By	TF
BIGRE	WP	N 35° 4' 30.79" W 105° 17' 26.03"	26000.0	Step	280.0	Fly By	TF
TALLR	WP	N 35° 2' 19.99" W 105° 30' 51.53"	21000.0	Step	270.0	Fly By	TF
COLTR_	WP	N 34° 57' 22.41" W 106° 0' 43.00"	12000.0	Step	250.0	Fly By	TF
MIERA	WP	N 34° 57' 24.74" W 106° 6' 50.96"	12000.0	Step	210.0	Fly By	TF
YYLEE	WP	N 34° 57' 34.15" W 106° 20' 18.81"	10200.0	Step	180.0	Fly By	TF
CYOTE	WP	N 34° 57' 35.69" W 106° 22' 44.80"	10200.0	Step	210.0	Fly By	TF
TNTOE	WP	N 34° 57' 15.59" W 106° 33' 7.75"	10000.0	Step	180.0	Fly By	TF
ACMIE	WP	N 34° 57' 6.76" W 106° 40' 35.58"	8200.0	Step	180.0	Fly By	TF
STIKI	WP	N 34° 57' 3.77" W 106° 43' 8.84"	8200.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP TALLR too high

DME/DME

Return To Summary

Settings:

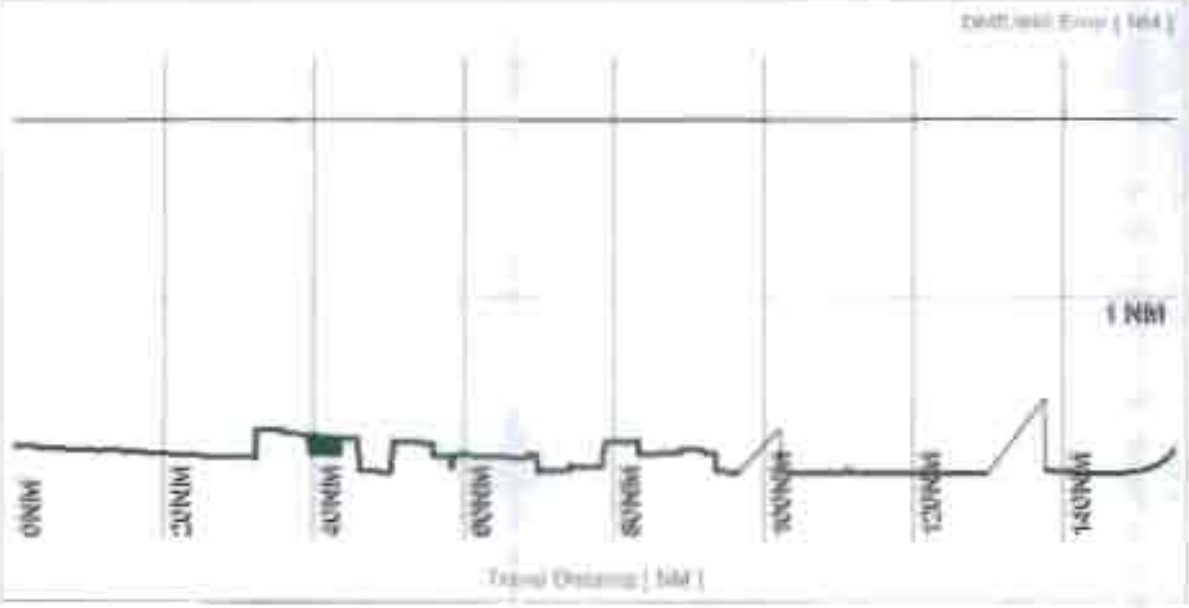
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 11

Maximum DME Error: 0.584 NM

No Critical DMEs were found

Available DMEs: CNX, ACH, CIM, CME, FTI, PNH, TXO, TCC, ABQ, ONM, SAF



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CME	N 33° 20' 14.92" W 104° 37' 16.48" E 12	H	Database	NO	0.736	Enabled	24.4 %	29.0 %
2	FTI	N 35° 39' 27.26" W 105° 8' 8.12" E 13	H	Database	NO	0.584	Enabled	13.2 %	16.0 %
3	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H + ESV	User	NO	0.638	Enabled	23.4 %	25.0 %
4	CIM	N 36° 29' 29.03" W 104° 52' 19.20" E 13	H	Database	NO	0.584	Enabled	18.9 %	23.0 %
5	PNH	N 35° 14' 6.23" W 101° 41' 56.52" E 8	H	Database	NO	0.584	Enabled	2.0 %	2.4 %
6	ABQ	N 35° 2' 37.66" W 106° 48' 55.72" E 13	H + ESV	User	NO	1.520	Enabled	39.4 %	36.7 %
7	TCC	N 35° 10' 55.70" W 103° 35' 54.67" E 12	H	Database	NO	0.584	Enabled	5.6 %	8.8 %
8	TXO	N 34° 29' 42.46" W 102° 50' 22.79" E 11	H	Database	NO	0.584	Enabled	2.6 %	3.1 %
9	ACH	N 35° 6' 42.19" W 105° 2' 23.79" E 12	H + ESV	User	NO	0.631	Enabled	18.4 %	17.0 %
10	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H + ESV	User	NO	1.270	Enabled	17.3 %	13.0 %
11	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L + ESV	User	NO	0.797	Enabled	13.0 %	10.9 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	CME	FTI	CNX	CIM	ACH	TXO
17.9	CME	FTI	CNX	CIM	PNH	TXO
35.8	CME	ABQ	CNX	TCC	PNH	FTI
45.9	CME	ABQ	CNX	TCC	FTI	CIM
58.1	CME	ABQ	CIM	TCC	FTI	CNX
70.4	TXO	ABQ	CIM	TCC	FTI	CNX
83.4	CNX	ABQ	ACH	CME	ONM	CIM
94.8	CNX	ABQ	ACH	SAF	CIM	TCC
119.3	CNX	ABQ	ACH	SAF		
124.8	CNX	ABQ	ACH	SAF		
135.9	ONM	ABQ				
137.8	ONM	ABQ				
146.4	ONM	ABQ				

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs				Alternate
152.6	ONM	ABQ			

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 35° 1' 59.68" W 105° 32' 54.87"	N 35° 0' 53.30" W 105° 39' 38.42"	5.6
	VOR: ACH	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: OTO	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: SAF	Available from N 35° 1' 59.68" W 105° 32' 54.87" to N 35° 0' 53.30" W 105° 39' 38.42"	
	VOR: CNX	Available from N 35° 1' 44.36" W 105° 34' 26.01" to N 35° 0' 53.30" W 105° 39' 38.42"	
2	N 34° 57' 29.20" W 106° 13' 3.62"	N 34° 57' 35.39" W 106° 22' 15.11"	7.6
	VOR: ABQ	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 57' 35.39" W 106° 22' 15.11"	
	VOR: OTO	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 57' 35.39" W 106° 22' 15.11"	
	VOR: SAF	Available from N 34° 57' 29.20" W 106° 13' 3.62" to N 34° 57' 35.39" W 106° 22' 15.11"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation (Ft)	Frequency	Replaces:	Status
1	CNX	N 34° 22' 1.26" W 105° 40' 40.82" E 13	H	6412.0	115.50	CNX	Used
	Restriction:	Bearing [True]: 128.0° to 132.0° Bearing [Mag]: 115.0° to 119.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 128.0° to 148.0° Bearing [Mag]: 115.0° to 135.0°			Distance: Beyond 35.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 132.0° to 134.0° Bearing [Mag]: 119.0° to 121.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 134.0° to 148.0° Bearing [Mag]: 121.0° to 135.0°			Distance: Beyond 25.0 NM Altitude: Below 10000.0 Ft.		
	Restriction:	Bearing [True]: 148.0° to 198.0° Bearing [Mag]: 135.0° to 185.0°			Distance: Beyond 20.0 NM Altitude: Below 12000.0 Ft.		
	Restriction:	Bearing [True]: 198.0° to 218.0° Bearing [Mag]: 185.0° to 205.0°			Distance: Beyond 20.0 NM Altitude: Below 12000.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 228.0° Bearing [Mag]: 205.0° to 215.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	Restriction:	Bearing [True]: 218.0° to 273.0° Bearing [Mag]: 205.0° to 260.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 228.0° to 258.0° Bearing [Mag]: 215.0° to 245.0°			Distance: Beyond 20.0 NM Altitude: Below 14000.0 Ft.		
	Restriction:	Bearing [True]: 258.0° to 273.0° Bearing [Mag]: 245.0° to 260.0°			Distance: Beyond 10.0 NM Altitude: Below 11800.0 Ft.		
	ESV:	Bearing [True]: 320.0° to 362.0° Bearing [Mag]: 307.0° to 349.0°			Arc Distance: Out to 46.0 NM Altitude: 10000.0 to 30000.0 Ft.		
2	ONM	N 34° 20' 20.04" W 106° 49' 13.69" E 13	H	4910.0	116.80	ONM	Used
	ESV:	Bearing [True]: 360.0° to 63.0° Bearing [Mag]: 347.0° to 50.0°			Arc Distance: Out to 70.0 NM Altitude: 8000.0 to 15000.0 Ft.		
3	SAF	N 35° 32' 25.95" W 106° 3' 53.81" E 13	L	6263.2	110.60	SAF	Used
	Restriction:	Bearing [True]: 28.0° to 43.0° Bearing [Mag]: 15.0° to 30.0°			Distance: Beyond 30.0 NM Altitude: Below 14600.0 Ft.		
	ESV:	Bearing [True]: 158.0° to 180.0° Bearing [Mag]: 145.0° to 167.0°			Arc Distance: Out to 45.0 NM Altitude: 10000.0 to 23000.0 Ft.		
4	ABQ	N 35° 2' 37.66" W 106° 48' 58.72" E 13	H	5746.5	113.20	ABQ	Used
	Restriction:	Bearing [True]: 53.0° to 68.0° Bearing [Mag]: 40.0° to 55.0°			Distance: Beyond 30.0 NM Altitude: Below 15000.0 Ft.		
	ESV:	Bearing [True]: 88.0° to 109.0° Bearing [Mag]: 75.0° to 96.0°			Arc Distance: Out to 53.0 NM Altitude: 10000.0 to 23000.0 Ft.		

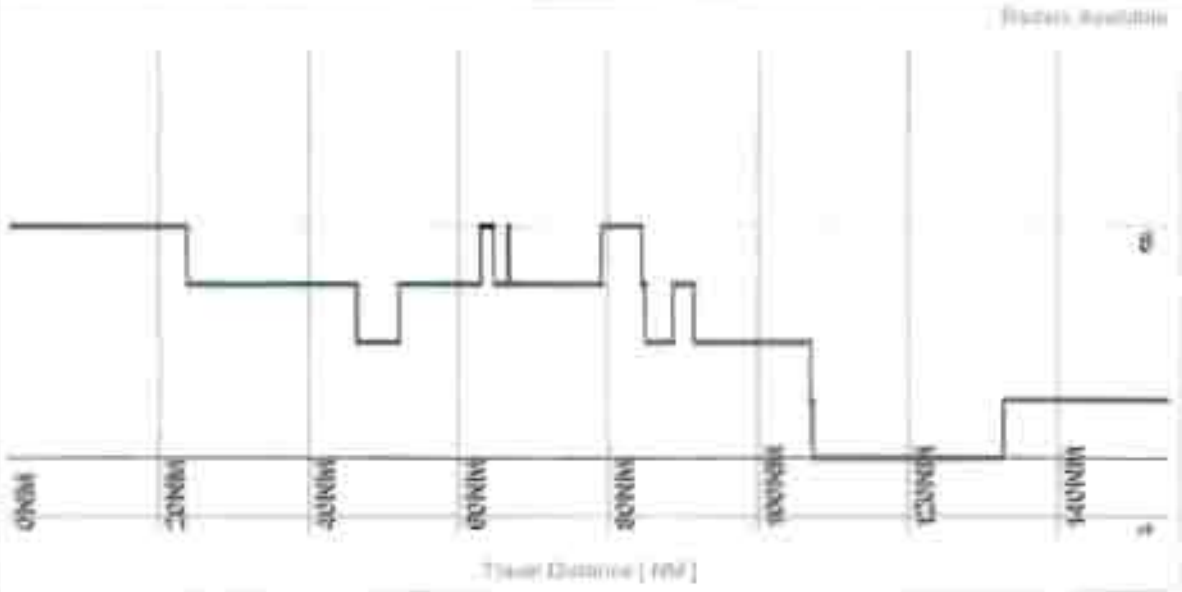
DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	ACH	N 35° 6' 42.10" W 105° 2' 23.79" E 12	H	5445.0	117.80	ACH	Used
		ESV. Bearing [True]: 248.0° to 265.0° Bearing [Mag]: 236.0° to 253.0°			Arc Distance: Out to 55.0 NM Altitude: 10000.0 to 23000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR