Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 02/29/2012	Task #: 2011031632268101029	Request #: 20110316322681
Procedure: STAR KEPEC THREE LAS VEGAS NV KLAS		Airport ID: KLAS	Airport: MC CARRAN INTL		Reimbursable #:
City: LAS VEGAS	ST: NV	GPS #:		Estimated Chart Date: 05/31/2012	FICO #: 1082228
Fac ID:	Fac. Type: Proc D		Specialist: AISHAT NAUZO		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	10/26/2011	03/29/2012	ADOLFO URRUTIA	DME / DME
QA:	02/22/2012	02/22/2012	STEVEN SZUKALA	
Liaison:	02/22/2012		Terrell	RESUBMIT ENTIRE PKG 3/29/12 - DME/DME

P3

ESV REQUEST INCLUDED

pkg 1 of 2

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

LAS VEGAS, NV MC CARRAN INTL (KLAS) KEPEC THREE (RNAV) (STAR) ENROUTE-YES FC: 4.3.12 PUB: 5.31.12

ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): BOULDER CITY (BLD) VTAC, REV 12; CHIPZ, REV 3; CLARR-INT, REV 7; DAGGETT (DAG) VTAC, REV 10; JOTNU-INT, REV 6; KEPEC, REV 1; KIMMIE, REV 2; MISEN-INT, REV 2; NIPZO, REV 4; POKRR, REV 2; PRINO-INT, REV 5; SUNST, REV 2; TWENTYNINE PALMS (TNP) VTAC, REV 10; ZELMA-INT, REV 4; (INFO ONLY) IPUMY-INT, REV 3; SKEBR-INT, REV 3.

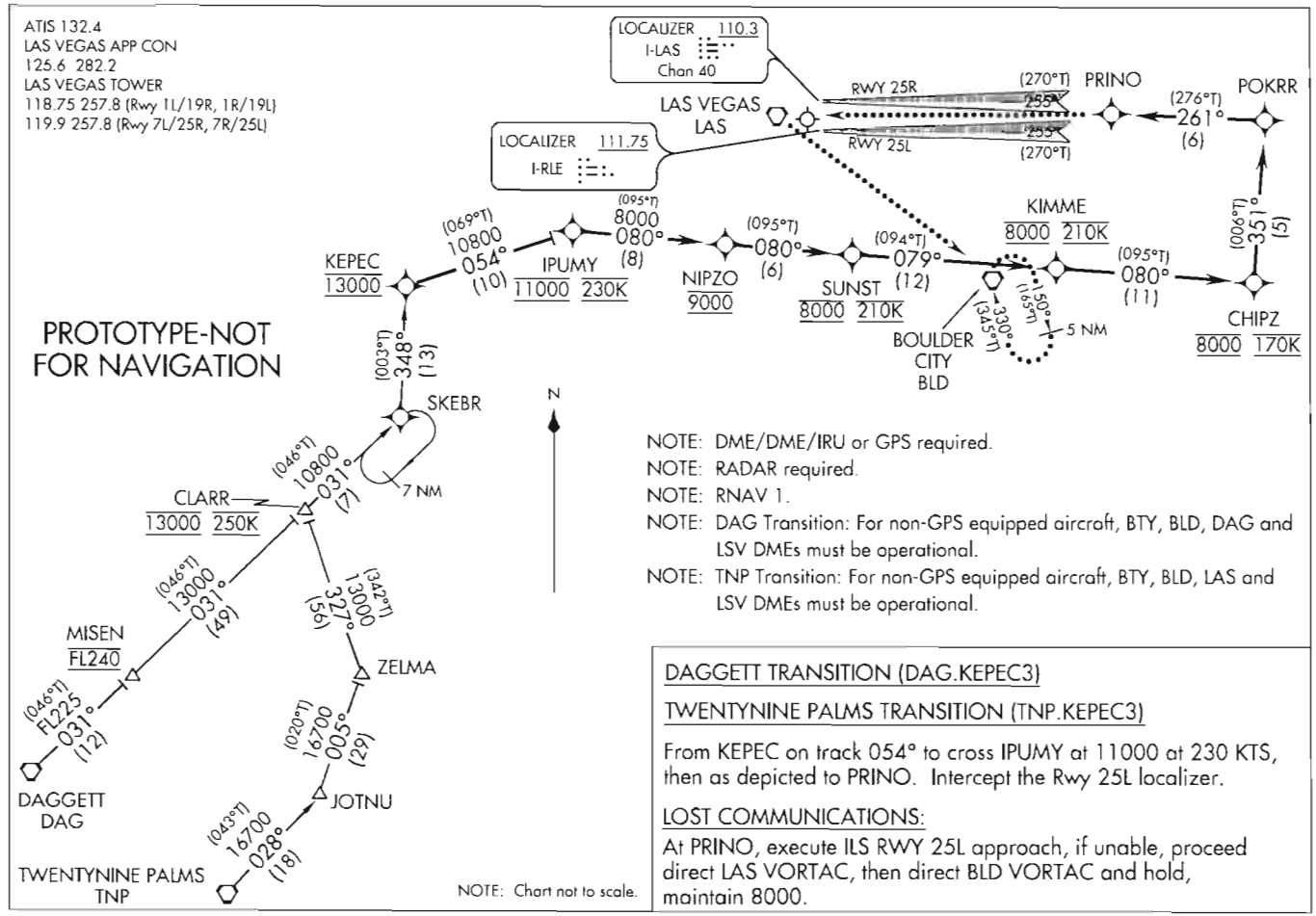
CONTACT: ADOLFO URRUTIA, AJV-354 LEAD, 405.954.2079:

DAG: 3457.748/11634.690
TNP: 3406.734/11546.194
CHIPZ: 3558.833/11436.500
CLARR: 3540.541/11540.785
IPUMY: 3601.864/11522.520
JOTNU: 3419.552/11531.772

KEPEC: 3558.277/11533.812
KIMME: 3559.717/11449.833
MISEN: 3506.141/11624.231
NIPZO: 3601.114/11512.170
POKRR: 3603.758/11435.891
PRINO: 3604.393/11443.648

SKEBR: 3545.430/11534.534
SUNST: 3600.617/11504.850
ZELMA: 3447.000/11519.792

ATIS 132.4
LAS VEGAS APP CON
125.6 282.2
LAS VEGAS TOWER
118.75 257.8 (Rwy 1L/19R, 1R/19L)
119.9 257.8 (Rwy 7L/25R, 7R/25L)



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DAG Transition: For non-GPS equipped aircraft, BTY, BLD, DAG and LSV DMEs must be operational.
NOTE: TNP Transition: For non-GPS equipped aircraft, BTY, BLD, LAS and LSV DMEs must be operational.

DAGGETT TRANSITION (DAG.KEPEC3)

TWENTYNINE PALMS TRANSITION (TNP.KEPEC3)

From KEPEC on track 054° to cross IPUMY at 11000 at 230 KTS, then as depicted to PRINO. Intercept the Rwy 25L localizer.

LOST COMMUNICATIONS:

At PRINO, execute ILS RWY 25L approach, if unable, proceed direct LAS VORTAC, then direct BLD VORTAC and hold, maintain 8000.

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : PALMDALE	City : PALMDALE	Ident : PMD	State : CA
Type/Class : TACR	Frequency : M1179	Reference No.: 11106665	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698165-016	19	26	145	200	440

Requirement: KLAS KEPEC STAR, D/D/I RNAV PRO ASSESSMENT

Signature: Bachman William	Routing Symbol: AJV-W2	Date: 10/03/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698165-016	19	26	145	200	440	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 10/04/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698165-016	19	26	145	200	440	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

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

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698165-016	19	26				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : NELLIS	City : NELLIS	Ident : LSV	State : NV
Type/Class : NONE	Frequency : M973	Reference No.: 11106660	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
AF 962918-004	274	284	93	200	450

Requirement: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENT

Signature: Bachman William	Routing Symbol: AJV-W2	Date: 10/03/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
AF 962918-004	274	284	93	200	450	APPROVE

Requirement/Remarks: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 10/04/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
AF 962918-004	274	284	93	200	450	APPROVE

Requirement/Remarks: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

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

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
AF 962918-004	274	284				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BEATTY	City : BEATTY	Ident : BTY	State : NV
Type/Class : TACR	Frequency : M1181	Reference No.: 11106662	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704180-019	104	122	65	117	175

Requirement: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENT

Signature: Bachman William	Routing Symbol: AJV-W2	Date: 10/03/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704180-019	104	122	65	117	175	APPROVE

Requirement/Remarks: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 10/04/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704180-019	104	122	65	117	175	APPROVE

Requirement/Remarks: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

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

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704180-019	104	122				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BOULDER CITY	City : BOULDER CITY	Ident : BLD	State : NV
Type/Class : TACR	Frequency : M1201	Reference No.: 11106664	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 702031-017	269	285	50	117	182

Requirement: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENT

Signature: Bachman William	Routing Symbol: AJV-W2	Date: 10/03/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702031-017	269	285	50	117	182	APPROVE

Requirement/Remarks: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 10/04/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702031-017	269	285	50	117	182	APPROVE

Requirement/Remarks: KLAS SUNST STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

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

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702031-017	269	285				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BOULDER CITY	City : BOULDER CITY	Ident : BLD	State : NV
Type/Class : TACR	Frequency : M1201	Reference No.: 11096505	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 702031-016	202	212	62	120	182

Requirement: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENT

Signature: Bachman William	Routing Symbol: AJV-W2	Date: 09/16/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702031-016	202	212	62	120	182	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 09/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702031-016	202	212	62	120	182	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 09/20/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702031-016	202	212				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BEATTY	City : BEATTY	Ident : BTY	State : NV
Type/Class : TACR	Frequency : M1181	Reference No.: 11106663	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704180-020	122	137	92	120	175

Requirement: KLAS KEPEC STAR, D/D/I RNAV PRO ASSESSMENT

Signature: Bachman William	Routing Symbol: AJV-W2	Date: 10/03/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704180-020	122	137	92	120	175	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 10/04/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704180-020	122	137	92	120	175	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, D/D/I RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

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

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704180-020	122	137				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : DAGGETT	City : DAGGETT	Ident : DAG	State : CA
Type/Class : TACR	Frequency : M1166	Reference No.: 11096506	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704130-015	25	38	59	120	450

Requirement: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENT

Signature: Bachman William	Routing Symbol: AJV-W2	Date: 09/16/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704130-015	25	38	59	120	450	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 09/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704130-015	25	38	59	120	450	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 09/20/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704130-015	25	38				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : NEEDLES	City : NEEDLES	Ident : EED	State : AZ
Type/Class : TACR	Frequency : M1186	Reference No.: 11096504	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 870584-029	279	296	70	120	152

Requirement: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENT

Signature: Bachman William	Routing Symbol: AJV-W2	Date: 09/16/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870584-029	279	296	70	120	152	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: HEPSEN JOHN	Routing Symbol:	Date: 09/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870584-029	279	296	70	120	152	APPROVE

Requirement/Remarks: KLAS KEPEC STAR, DME/DME/IRU RNAV PRO ASSESSMENTApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

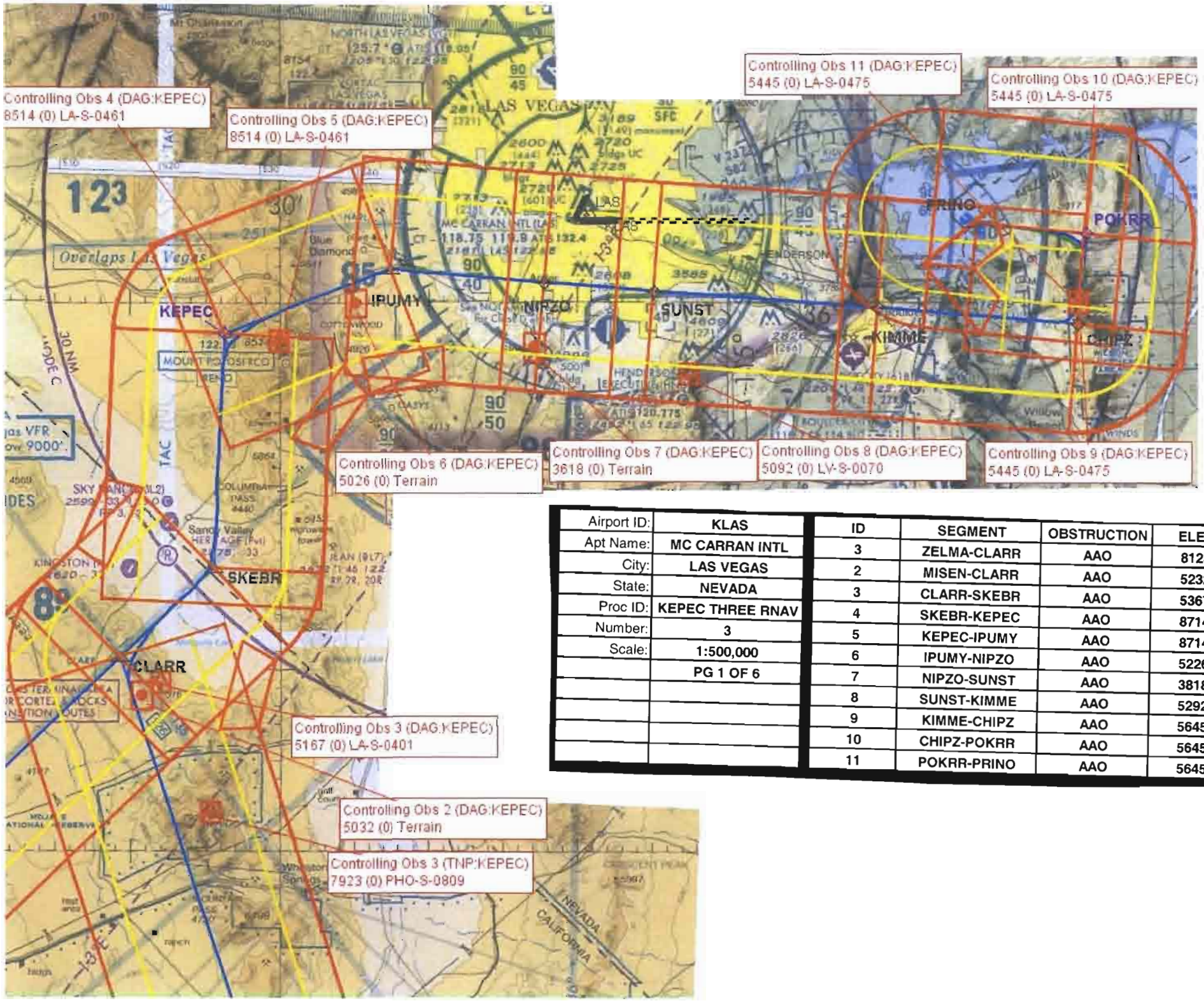
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 09/20/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870584-029	279	296				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

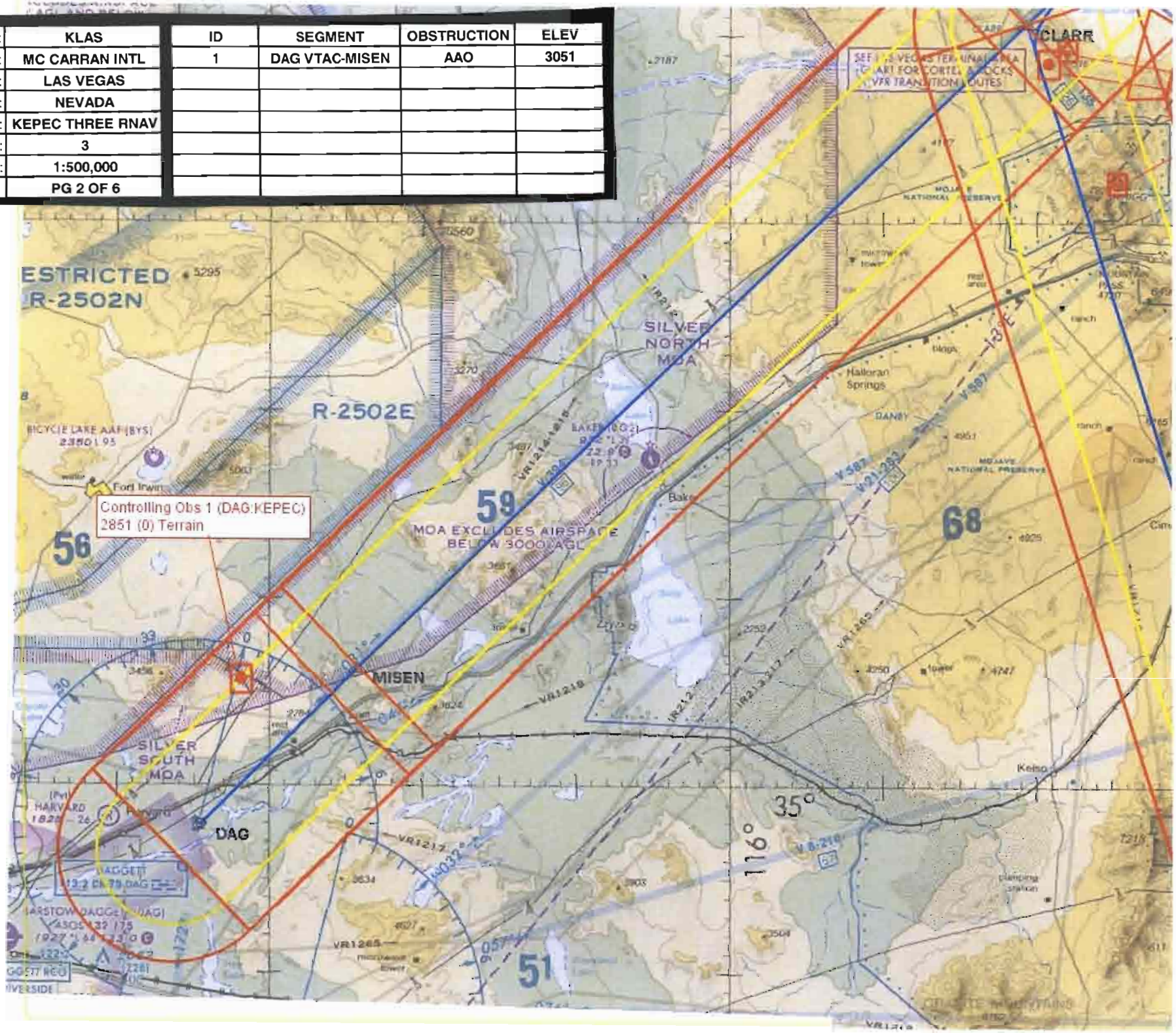


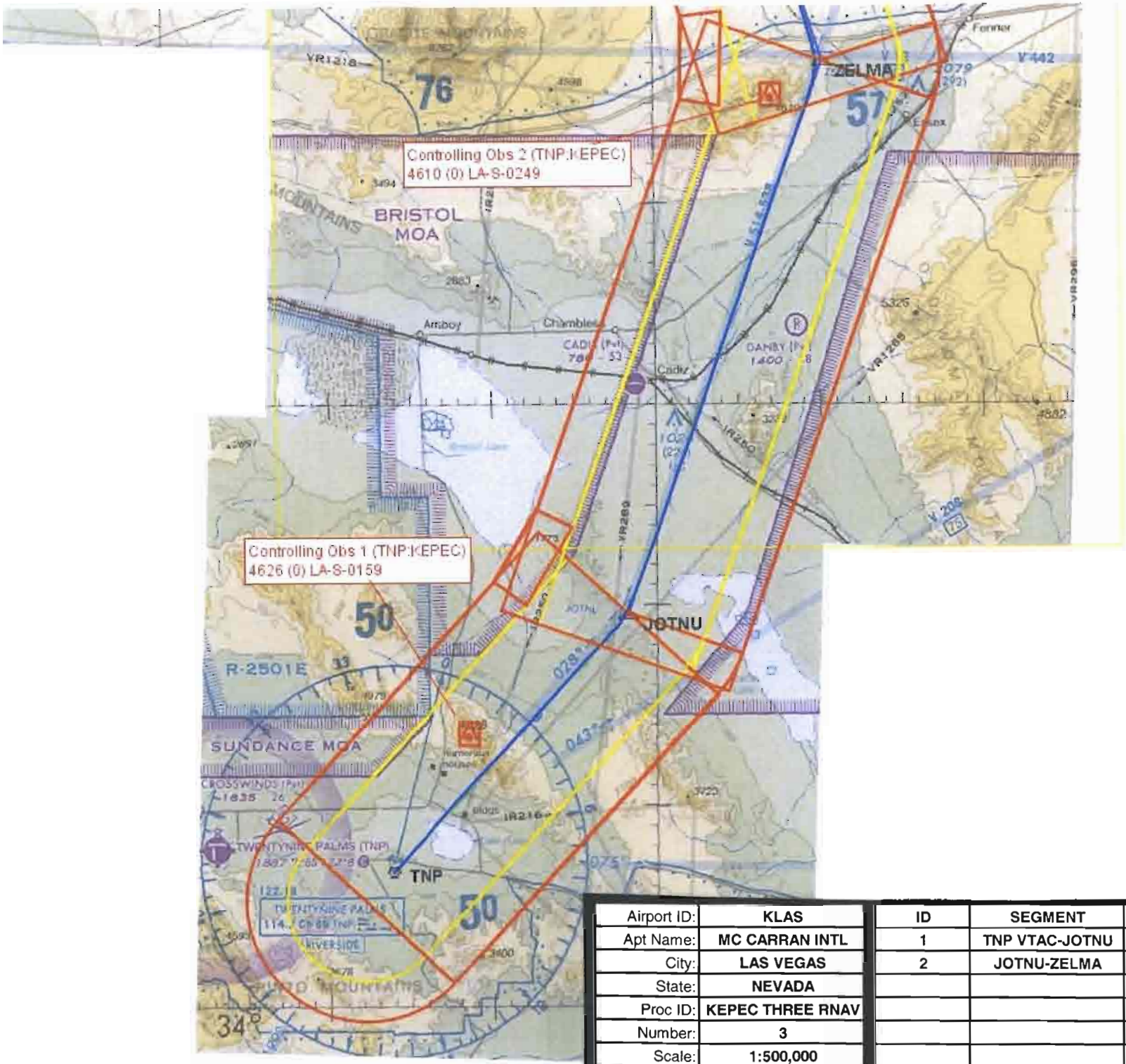
Airport ID:	KLAS
Apt Name:	MC CARRAN INTL
City:	LAS VEGAS
State:	NEVADA
Proc ID:	KEPEC THREE RNAV
Number:	3
Scale:	1:500,000
	PG 1 OF 6

ID	SEGMENT	OBSTRUCTION	ELEV
3	ZELMA-CLARR	AAO	8123
2	MISEN-CLARR	AAO	5232
3	CLARR-SKEBR	AAO	5367
4	SKEBR-KEPEC	AAO	8714
5	KEPEC-IPUMY	AAO	8714
6	IPUMY-NIPZO	AAO	5226
7	NIPZO-SUNST	AAO	3818
8	SUNST-KIMME	AAO	5292
9	KIMME-CHIPZ	AAO	5645
10	CHIPZ-POKRR	AAO	5645
11	POKRR-PRINO	AAO	5645

Airport ID:	KLAS
Apt Name:	MC CARRAN INTL
City:	LAS VEGAS
State:	NEVADA
Proc ID:	KEPEC THREE RNAV
Number:	3
Scale:	1:500,000
	PG 2 OF 6

ID	SEGMENT	OBSTRUCTION	ELEV
1	DAG VTAC-MISEN	AAO	3051



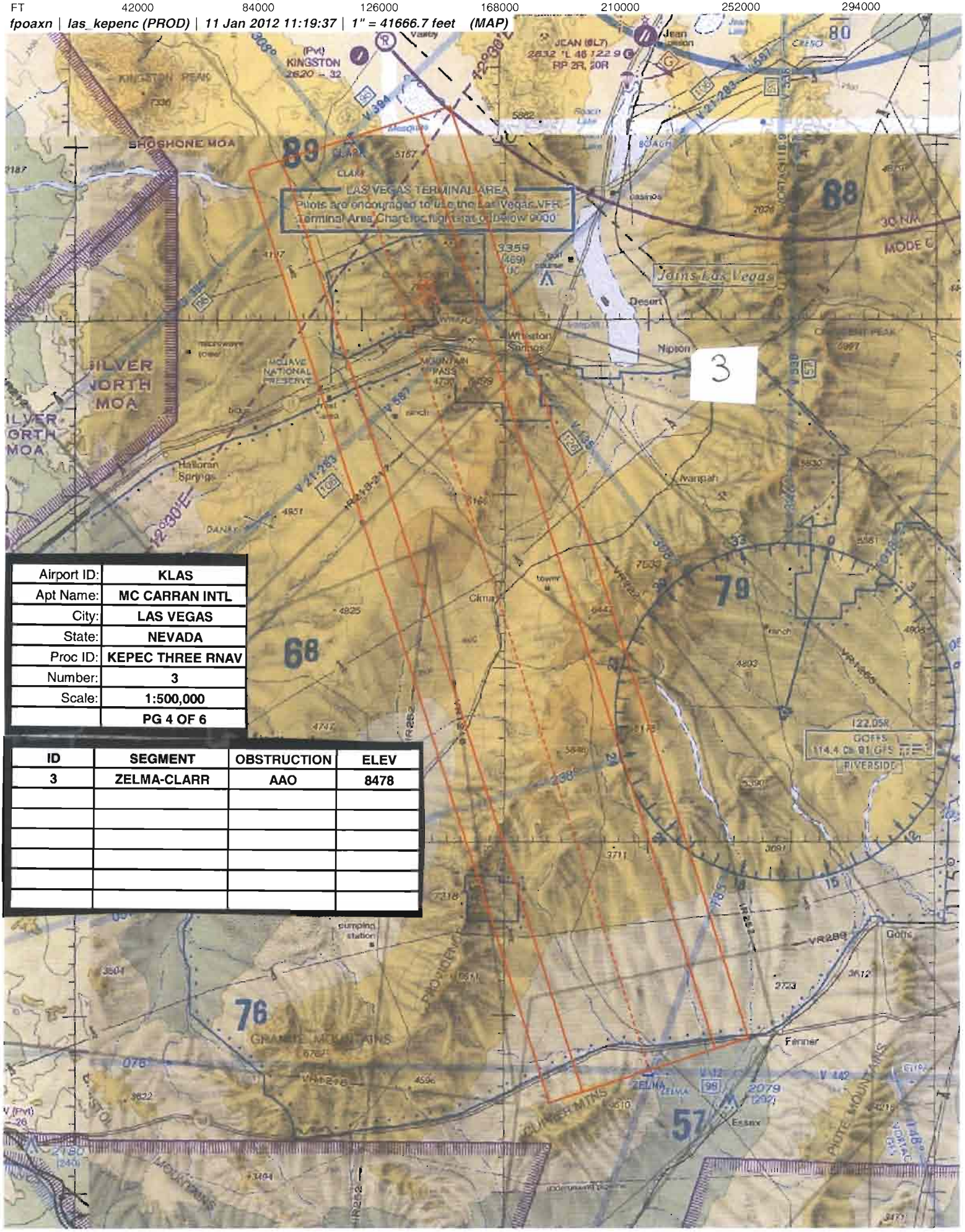


Airport ID:	KLAS	ID	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	MC CARRAN INTL	1	TNP VTAC-JOTNU	AAO	4826
City:	LAS VEGAS	2	JOTNU-ZELMA	AAO	4810
State:	NEVADA				
Proc ID:	KEPEC THREE RNAV				
Number:	3				
Scale:	1:500,000				
	PG 3 OF 6				

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpoaxn | las_kepenc (PROD) | 11 Jan 2012 11:19:37 | 1" = 41666.7 feet (MAP)



Airport ID:	KLAS
Apt Name:	MC CARRAN INTL
City:	LAS VEGAS
State:	NEVADA
Proc ID:	KEPEC THREE RNAV
Number:	3
Scale:	1:500,000
	PG 4 OF 6

ID	SEGMENT	OBSTRUCTION	ELEV
3	ZELMA-CLARR	AAO	8478

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

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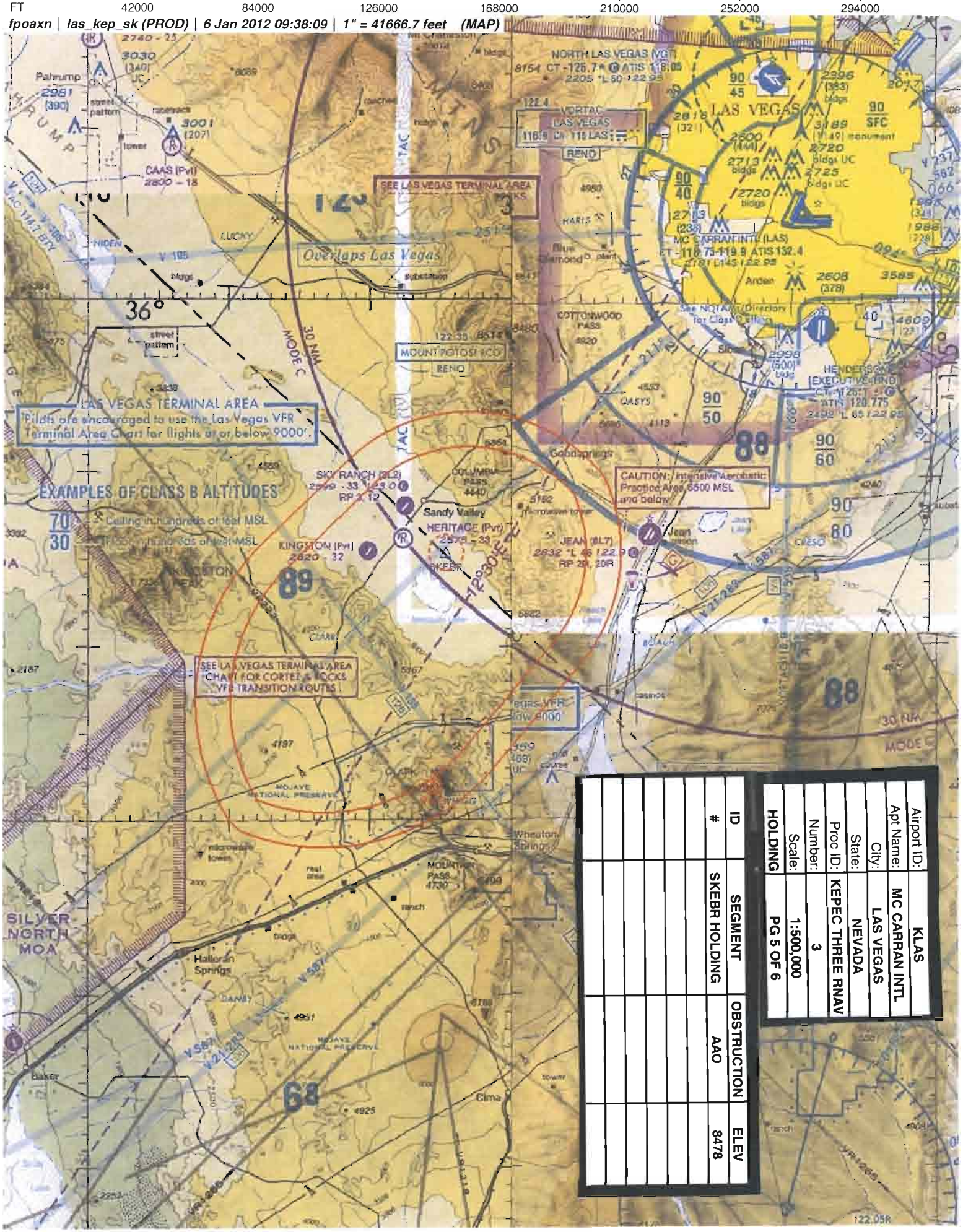

ID	SEGMENT	OBSTRUCTION	ELEV
#	SKEBR HOLDING	AAO	8478

Airport ID:	KLAS
Apt Name:	MC CARRAN INTL
City:	LAS VEGAS
State:	NEVADA
Proc ID:	KEPEC THREE RNAV
Number:	3
Scale:	1:500,000
HOLDING	PG 5 OF 6

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

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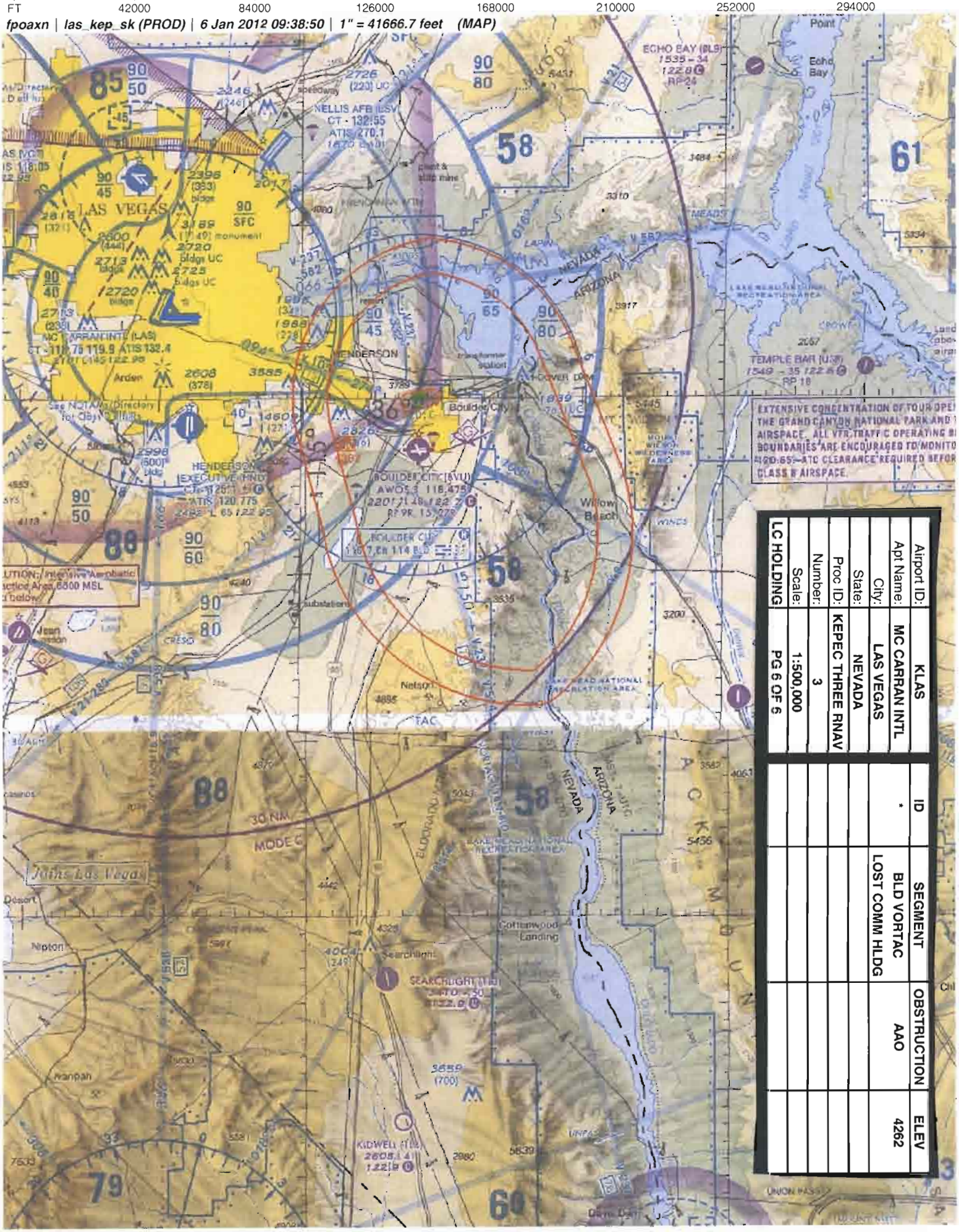


Airport ID:	KLAS
Apt Name:	MC CARRAN INTL
City:	LAS VEGAS
State:	NEVADA
Proc ID:	KEPEC THREE RNAV
Number:	3
Scale:	1:500,000
LC HOLDING	PG 6 OF 6

ID	SEGMENT	OBSTRUCTION	ELEV
*	BLD VORTAC LOST COMM HLDG	AAO	4262

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
DAGGETT	DAG.KEPEC3	DAG VORTAC	DAG VORTAC					
			MISEN WP	30.66/12.00	22500			AT FL240
			CLARR WP	30.75/49.41	13000			AT 13000
			SKEBR WP	31.17/07.05	10800			
			KEPEC. WP	347.62/12.84	10800			AT 13000
TWENTYNINE PALMS	TNP.KEPEC3	TNP VORTAC	TNP VORTAC					
			JOTNU WP	28.00/17.51	16700			
			ZELMA WP	4.80/29.13	16700			
			CLARR WP	327.27/56.15	13000			AT 13000
			SKEBR WP	31.17/07.05	10800			
			KEPEC. WP	347.62/12.84	10800			AT 13000
x	x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x	x

(2) Arrival Route Description: FROM KEPEC ON TRACK 053.60/9.84 TO CROSS IPUMY AT 11000 AT 230KTS (MEA 10800), THEN AS DEPICTED TO PRINO (MEA 8000). INTERCEPT THE RWY 25L LOCALIZER.

(3) Procedural Data Notes: NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED.
NOTE: RNAV 1.
NOTE: DAG TRANSITION: FOR NON-GPS EQUIPPED AIRCRAFT, BTY, BLD, DAG and LSV DME's MUST BE OPERATIONAL.
NOTE: TNP TRANSITION: FOR NON-GPS EQUIPPED AIRCRAFT, BTY, BLD, LAS and LSV DME's MUST BE OPERATIONAL.

(4) Fixes and/or Holding Patterns: CHART HOLDING AT BLD VORTAC (HOLD SE, RT, 330.00 INBOUND). CHART HOLDING AT SKEBR (HOLD SW, RT, 031.48 INBOUND). CHART LAS VORTAC.

(5) Communications: ATIS, LAS VEGAS APP CON, LAS VEGAS TOWER (RWY 1L/19R, 1R/19L), (RWY 7L/25R, 7R/25L).

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

(12) Airports Served	
Airport Name McCARRAN INTL	City/State LAS VEGAS, NEVADA
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State

(13) Lost Communications Procedure: AT PRINO, EXECUTE ILS RWY 25L APPROACH, IF UNABLE, PROCEED DIRECT LAS VORTAC, THEN DIRECT BLD VORTAC AND HOLD, MAINTAIN 8000.

(14) Remarks:

(15) Additional Flight Data: REFERENCE MAGNETIC VARIATION: KLAS 15E/1980
DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: I-LAS LOCALIZER, I-RLE LOCALIZER
CHART: MISEN AT FL240
CHART: CLARR AT 13000 AT 250KTS
CHART: KEPEC AT 13000
CHART: IPUMY AT 11000 AT 230KTS
CHART: NIPZO AT 9000
CHART: SUNST AT 8000 AT 210KTS
CHART: KIMME AT 8000 AT 210KTS
CHART: CHIPZ AT 8000 AT 170KTS

QUALITY

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

(16) Continuation:

(17) Changes: 1. KEPEC WAYPOINT RELOCATED AND ALTITUDE CHANGED TO 13000.
2. NIPZO RESTRICTIONS REMOVED.
3. 230KT RESTRICTION ADDED AT IPUMY.
4. MEA'S ON DAG AND TNP TRANSITIONS RAISED.
5. ARRIVAL ROUTE DESCRIPTION CHANGED TO CONNECT RWY 25L ILS TO STAR.
6. DAG TRANSITION CRITICAL DME'S CHANGED.
7. ZELMA RESTRICTION REMOVED.

(18) Reasons for Changes: 1. ATC REQUEST.
2. ATC AND USER REQUEST.
3. ATC AND USER REQUEST.
4. REQUIRED FOR D/D/I OPERATIONS.
5. ATC REQUEST.
6. RNAV PRO ASSESSMENT.
7. ATC REQUEST.

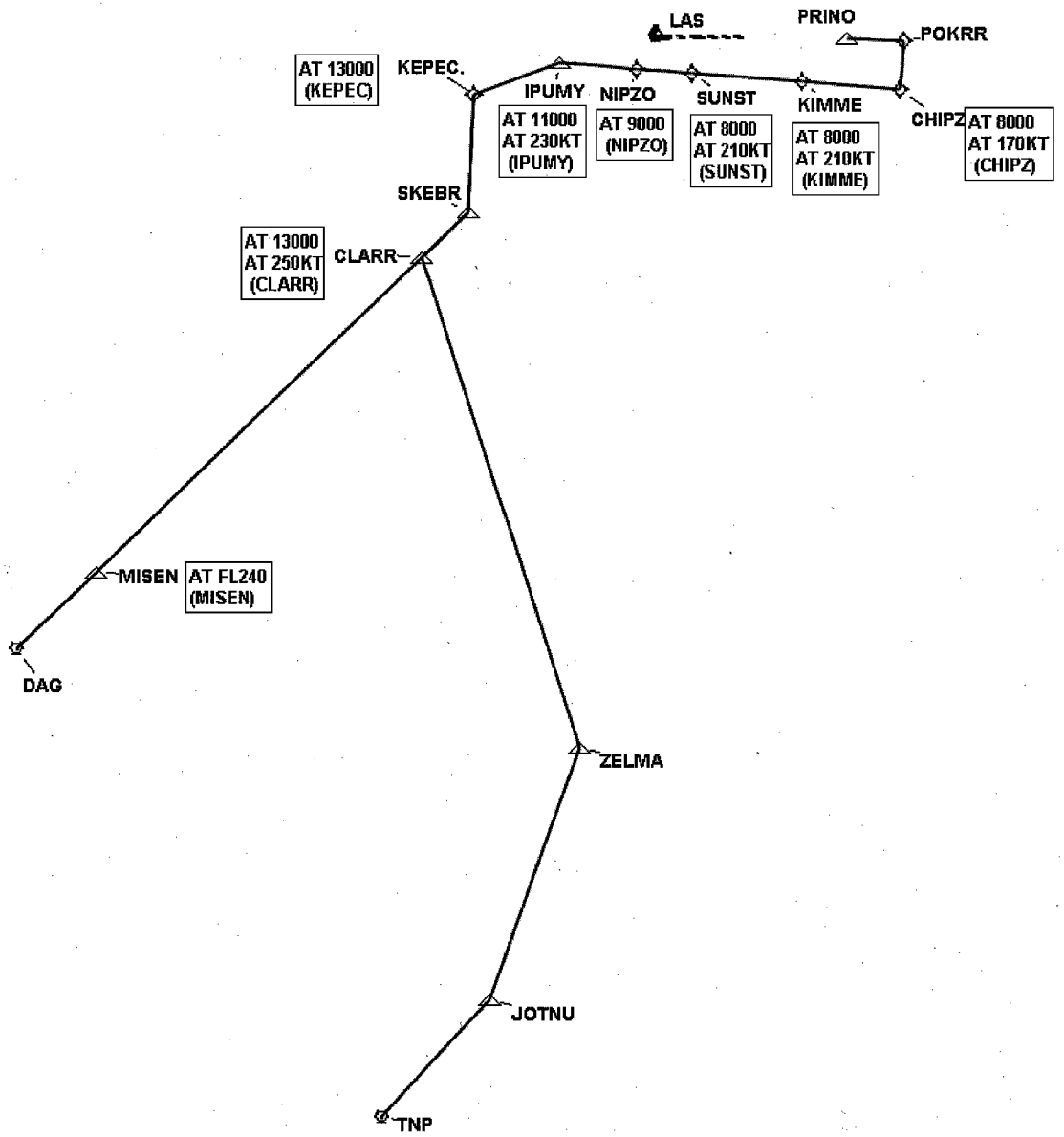
03/28/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/20/12.
1. UPDATED ARINC CODING.
2. REMOVED BLD VORTAC FROM ARINC CODING.

		Name (Typed and Signed), Title and Organization	DATE
Developed By		Mark Kuck, ZLA Support Manager, Airspace and Procedures	
Approved	NFPG		
	Reg. ATD	John Warner, WSC Operations Support Group Manager, AJV-W2	

QUALITY CHECKED 1

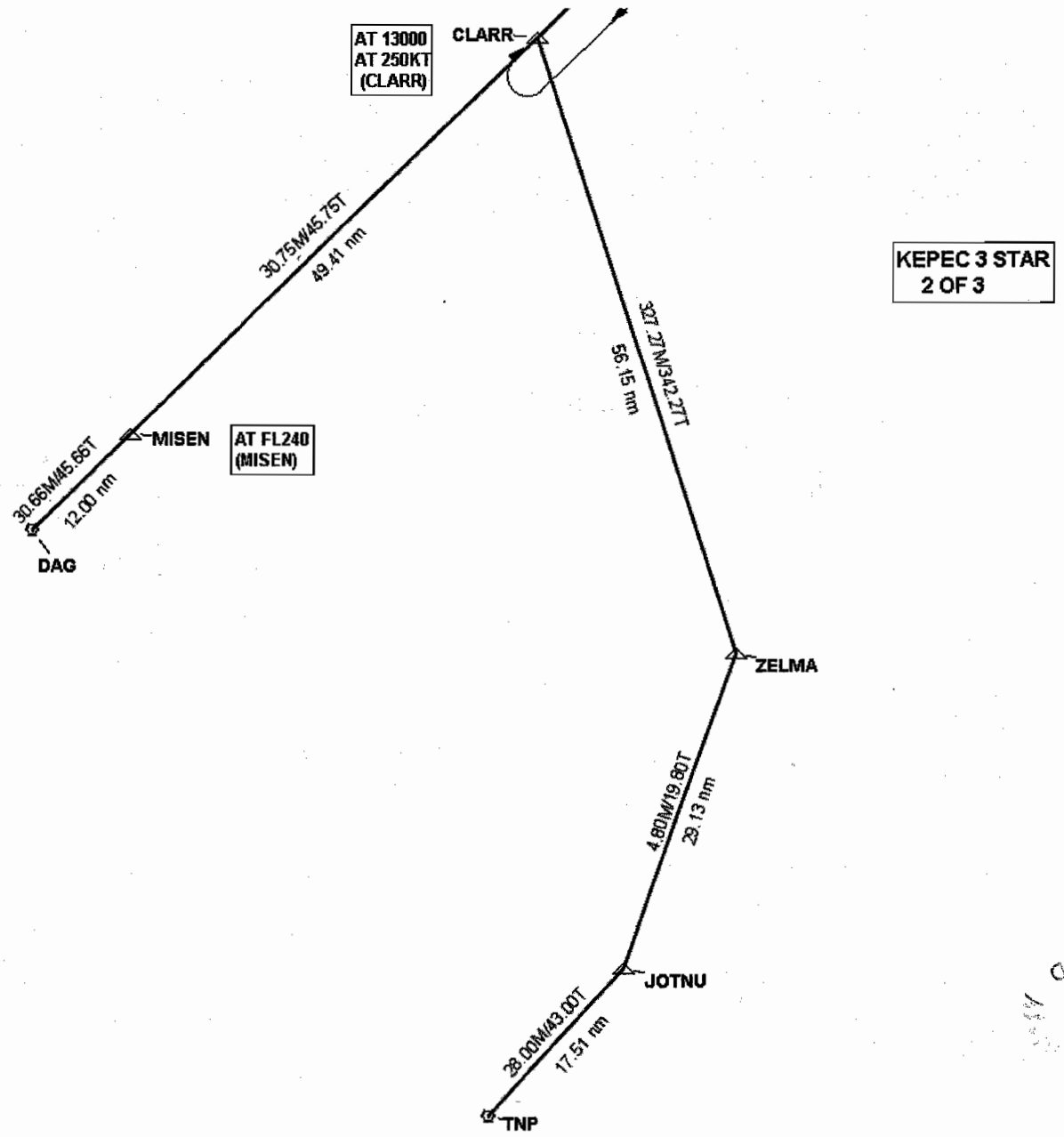
(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

(19) Graphic Depiction (1 of 3)

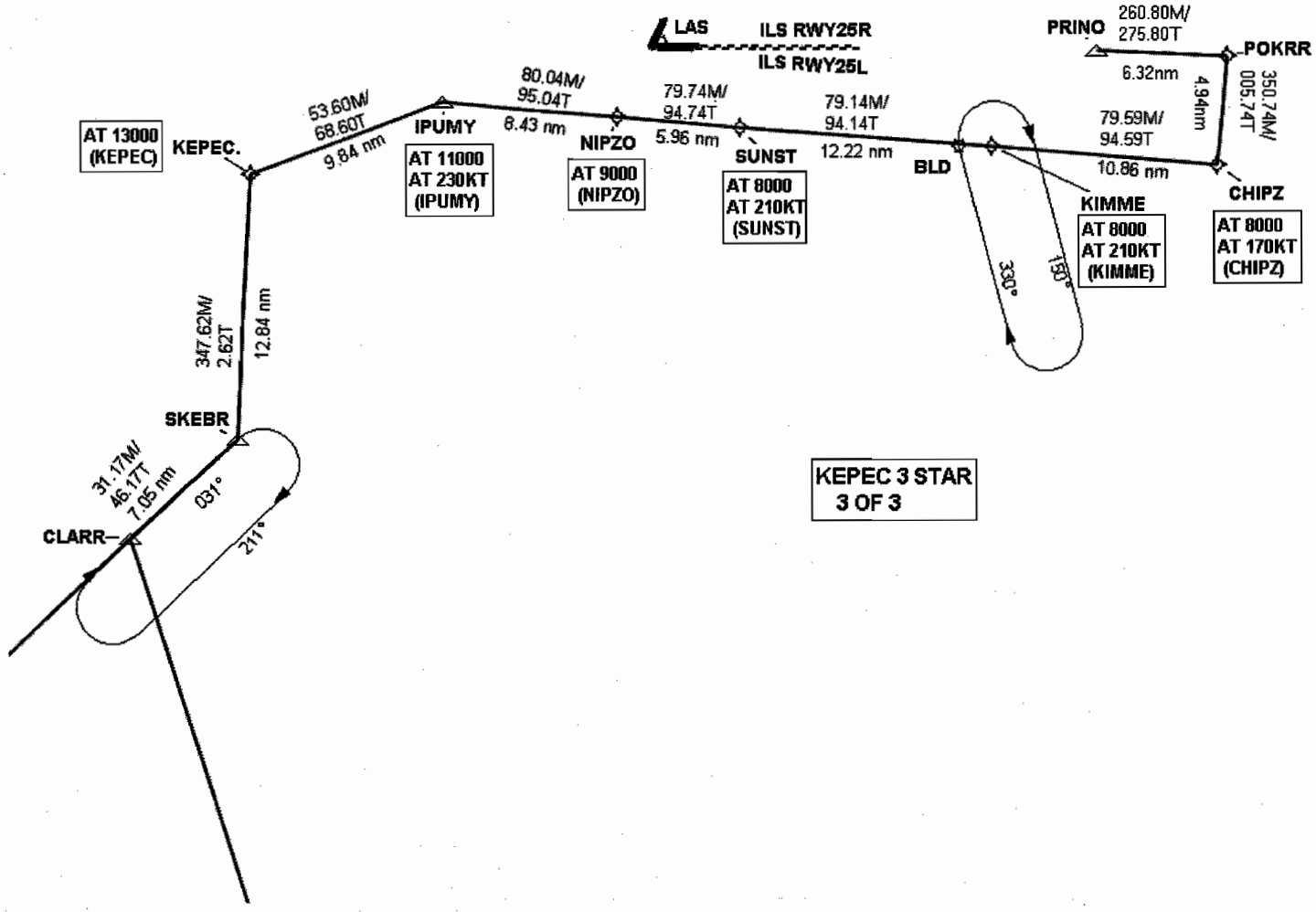


QUALITY CHECKED 1

(19) Graphic Depiction (2 of 3)



(19) Graphic Depiction (3 of 3)



QUALITY CHECKED 1

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									
DAG VORTAC	345744.85N / 1163441.40W	Y		IF					DAG.KEPEC3
MISEN WP	350608.46N / 1162413.86W	Y	FB	TF	045.66	12.00	FL240		
CLARR WP	354032.45N / 1154047.11W	Y	FB	TF	045.75	49.41	13000	250K	
SKEBR WP	354525.77N / 1153432.06W	Y	FB	TF	046.17	07.05			
KEPEC. WP	355816.64N / 1153348.74W	Y	FB	TF	002.62	12.84	13000		
En Route Transition									
TNP VORTAC	340644.04N / 1154611.66W	Y		IF					TNP.KEPEC3
JOTNU WP	341933.11N / 1153146.29W	Y	FB	TF	043.00	17.51			
ZELMA WP	344659.99N / 1151947.51W	Y	FB	TF	019.80	29.13			
CLARR WP	354032.45N / 1154047.11W	Y	FB	TF	342.27	56.15	13000	250K	
SKEBR WP	354525.77N / 1153432.06W	Y	FB	TF	046.17	07.05			
KEPEC. WP	355816.64N / 1153348.74W	Y	FB	TF	002.62	12.84	13000		

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

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
Common Route									
KEPEC. WP	355816.64N / 1153348.74W	Y		IF			13000		
IPUMY WP	360151.82N / 1152231.18W	Y	FB	TF	068.60	09.84	11000	230K	
NIPZO WP	360106.84N / 1151210.17W	Y	FB	TF	095.04	08.43	9000		
SUNST WP	360037.00N / 1150451.00W	Y	FB	TF	094.74	05.96	8000	210K	
KIMME WP	355943.00N / 1144950.00W	Y	FB	TF	094.14	12.22	8000	210K	
CHIPZ WP	355850.00N / 1143630.00W	Y	FB	TF	094.59	10.86	8000	170K	
POKRR WP	360345.49N / 1143553.43W	Y	FB	TF	005.74	04.94			
PRINO WP	360423.60N / 1144338.86W	Y	FB	TF	275.80	06.32			
QUALITY									
CHECKED									

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

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        DAG   K2011320VTLA N34574485W116344140    N34574485W116344140E0150017601     NARDAGGETT
        SUSAD        TNP   K2011420VTL  N34064404W115461166    N34064404W115461166E0150013741     NARTWENTYNINE PALMS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CHIPZ K20    W     N35585000W114363000                    E0121     NAR           CHIPZ
        SUSAEAENRT   CLARR K20    C   B N35403245W115404711                    E0123     NAR           CLARR
        SUSAEAENRT   IPUMY K20    C     N36015182W115223118                    E0123     NAR           IPUMY
        SUSAEAENRT   JOTNU K20    C   B N34193311W115314629                    E0120     NAR           JOTNU
        SUSAEAENRT   KEPEC K20    W     N35581664W115334874                    E0123     NAR           KEPEC
        SUSAEAENRT   KIMME K20    W     N35594300W114495000                    E0121     NAR           KIMME
        SUSAEAENRT   MISEN K20    C   H N35060846W116241386                    E0123     NAR           MISEN
        SUSAEAENRT   NIPZO K20    W     N36010684W115121017                    E0122     NAR           NIPZO
        SUSAEAENRT   POKRR K20    W     N36034549W114355343                    E0121     NAR           POKRR
        SUSAEAENRT   PRINO K20    C     N36042360W114433886                    E0121     NAR           PRINO
        SUSAEAENRT   SKEBR K20    C     N35452577W115343206                    E0123     NAR           SKEBR
        SUSAEAENRT   SUNST K20    W     N36003700W115045100                    E0122     NAR           SUNST
        SUSAEAENRT   ZELMA K20    C   L N34465999W115194751                    E0120     NAR           ZELMA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLASK2ALAS     0     145YHN36044820W115090810E015002181         1800018000C    MNAR    MC CARRAN INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLASK2EKEPEC34DAG   010DAG  K2D 0V       IF                                                  18000
        SUSAP KLASK2EKEPEC34DAG   020MISENK2EA0E    010TF                    03070120      FL240
        SUSAP KLASK2EKEPEC34DAG   030CLARRK2EA0E    010TF                    03080494      13000          250
        SUSAP KLASK2EKEPEC34DAG   040SKEBRK2EA0E  H 010TF                    03120071
        SUSAP KLASK2EKEPEC34DAG   050KEPECK2EA0EE   010TF                    34760128      13000
        SUSAP KLASK2EKEPEC34TNP   010TNP  K2D 0V       IF                                                  18000
        SUSAP KLASK2EKEPEC34TNP   020JOTNUK2EA0E    010TF                    02800175
        SUSAP KLASK2EKEPEC34TNP   030ZELMAK2EA0E    010TF                    00480291
        SUSAP KLASK2EKEPEC34TNP   040CLARRK2EA0E    010TF                    32730562      13000          250
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QUALITY CHECKED 1

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

FAA Form 7100-3 (9/02)

```
SUSAP KLASK2EKEPEC34TNP   050SKEBRK2EA0E  H 010TF                    03120071
SUSAP KLASK2EKEPEC34TNP   060KEPECK2EA0EE   010TF                    34760128      13000
SUSAP KLASK2EKEPEC35ALL   010KEPECK2EA0E       IF                                 13000     18000
SUSAP KLASK2EKEPEC35ALL   020IPUMYK2EA0E    010TF                    05360098      11000          230
SUSAP KLASK2EKEPEC35ALL   030NIPZOK2EA0E    010TF                    08000084      09000
SUSAP KLASK2EKEPEC35ALL   040SUNSTK2EA0E    010TF                    07970060      08000          210
SUSAP KLASK2EKEPEC35ALL   050KIMMEK2EA0E    010TF                    07910122      08000          210
SUSAP KLASK2EKEPEC35ALL   060CHIPZK2EA0E    010TF                    07960109      08000          170
SUSAP KLASK2EKEPEC35ALL   070POKRRK2EA0E    010TF                    35070049
SUSAP KLASK2EKEPEC35ALL   080PRINOK2EA0EE   010TF                    26080063
```

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLASK2GRW01L   0089850099 N36043644W115101030-1000    +0635402176058459150IICUA1
        SUSAP KLASK2GRW01R   0097750099 N36043168W115100043-1000    +0633602170049150150R
        SUSAP KLASK2GRW07L   0145100749 N36043495W115094663-1000    +0629002155213976150V
        SUSAP KLASK2GRW07R   0105260749 N36042506W115094116-1000    +0629502157000061150V
        SUSAP KLASK2GRW19L   0097751899 N36054706W115091728+1000    +0606202080087875150R
        SUSAP KLASK2GRW19R   0089851899 N36055176W115092719+1000    +0608702089000075150R
        SUSAP KLASK2GRW25L   0105262550 N36042516W115073296+1000    +0596302048000066150IIRLE1
        SUSAP KLASK2GRW25R   0145102550 N36043505W115073297+1000    +0595002044139766150IILAS1
```

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

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
	DAG	DAG	010		IF		FB					
	DAG	MISEN	020		TF		FB	1.0	030.7()	012.0	AT FL240	
	DAG	CLARR	030		TF		FB	1.0	030.8()	049.4	AT 13000	AT 250
	DAG	SKEBR	040		TF		FB	1.0	031.2()	007.1		
	DAG	KEPEC	050		TF		FB	1.0	347.6()	012.8	AT 13000	
	TNP	TNP	010		IF		FB					
	TNP	JOTNU	020		TF		FB	1.0	028.0()	017.5		
	TNP	ZELMA	030		TF		FB	1.0	004.8()	029.1		
	TNP	CLARR	040		TF		FB	1.0	327.3()	056.2	AT 13000	AT 250
	TNP	SKEBR	050		TF		FB	1.0	031.2()	007.1		
	TNP	KEPEC	060		TF		FB	1.0	347.6()	012.8	AT 13000	
	ALL	KEPEC	010		IF		FB				AT 13000	
	ALL	IPUMY	020		TF		FB	1.0	053.6()	009.8	AT 11000	AT 230
	ALL	NIPZO	030		TF		FB	1.0	080.0()	008.4	AT 09000	
	ALL	SUNST	040		TF		FB	1.0	079.7()	006.0	AT 08000	AT 210
	ALL	KIMME	050		TF		FB	1.0	079.1()	012.2	AT 08000	AT 210
	ALL	CHIPZ	060		TF		FB	1.0	079.6()	010.9	AT 08000	AT 170
	ALL	POKRR	070		TF		FB	1.0	350.7()	004.9		
	ALL	PRINO	080		TF		FB	1.0	260.8()	006.3		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
DAG	N345744.85	W1163441.40	N3457.748	W11634.690
TNP	N340644.04	W1154611.66	N3406.734	W11546.194
CHIPZ	N355850.00	W1143630.00	N3558.833	W11436.500
CLARR	N354032.45	W1154047.11	N3540.541	W11540.785
IPUMY	N360151.82	W1152231.18	N3601.864	W11522.520
JOTNU	N341933.11	W1153146.29	N3419.552	W11531.772
KEPEC	N355816.64	W1153348.74	N3558.277	W11533.812
KIMME	N355943.00	W1144950.00	N3559.717	W11449.833
MISEN	N350608.46	W1162413.86	N3506.141	W11624.231
NIPZO	N360106.84	W1151210.17	N3601.114	W11512.170
POKRR	N360345.49	W1143553.43	N3603.758	W11435.891
PRINO	N360423.60	W1144338.86	N3604.393	W11443.648
SKEBR	N354525.77	W1153432.06	N3545.430	W11534.534
SUNST	N360037.00	W1150451.00	N3600.617	W11504.850
ZELMA	N344659.99	W1151947.51	N3447.000	W11519.792
RW01L	N360436.44	W1151010.30	N3604.607	W11510.172

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

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RW01R	N360431.68	W1151000.43	N3604.528	W11510.007
RW07L	N360434.95	W1150946.63	N3604.583	W11509.777
RW07R	N360425.06	W1150941.16	N3604.418	W11509.686
RW19L	N360547.06	W1150917.28	N3605.784	W11509.288
RW19R	N360551.76	W1150927.19	N3605.863	W11509.453
RW25L	N360425.16	W1150732.96	N3604.419	W11507.549
RW25R	N360435.05	W1150732.97	N3604.584	W11507.550

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW01L	02176	59
RW01R	02170	50
RW07L	02155	76
RW07R	02157	61
RW19L	02080	75
RW19R	02089	75
RW25L	02048	66
RW25R	02044	66

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
KEPEC RNAV	THREE	KEPEC.KEPEC3	TWO	14 FEB 08	

RADIO FIX AND HOLDING DATA RECORD

NAME: BOULDER CITY VORTAC **STATE:** NV **COUNTRY:** US

LATITUDE/LONGITUDE: 355944.83N/1145148.85W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	BOULDER CITY	BLD	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	SE	BLD	VORTAC	150.00	330.00	R	1		6000	10000	5	9
2	SE		WP	150.00	330.00	R		5	6000	12000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	360109.60N/1145125.70W	3989	6A
1	310	AAO	355950.90N/1143643.50W	5645	6A
2	200	AAO	355651.00N/1145654.00W	4262	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	310	271
1	200	138
2	200	190

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
310K PATTERN EVALUATED PER ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HOOVER		1	KLAS	LAS VEGAS	NV (US)
DP	LAS VEGAS		1	KLAS	LAS VEGAS	NV (US)
DP	MCCARRAN		1	KLAS	LAS VEGAS	NV (US)
DP	TAKEOFF MINIMUMS			KLAS	LAS VEGAS	NV (US)
DP	BOULDER CITY			KVGT	LAS VEGAS	NV (US)
DP	WEVIC (RNAV)			KSLC	SALT LAKE CITY	UT (US)
EN ROUTE	J107					(US)
EN ROUTE	J110					(US)
EN ROUTE	J60					(US)
EN ROUTE	J60-107					(US)
EN ROUTE	J72-86					(US)
EN ROUTE	J92					(US)
EN ROUTE	V105					(US)
EN ROUTE	V21					(US)
EN ROUTE	V21-283-587					(US)
EN ROUTE	V237-514					(US)
IAP	VOR/DME RWY 21			KIGM	KINGMAN	AZ (US)
IAP	RNAV (GPS)-B		2	KHND	LAS VEGAS	NV (US)
IAP	VOR-C		1	KHND	LAS VEGAS	NV (US)
IAP	ILS OR LOC RWY 25L		1	KLAS	LAS VEGAS	NV (US)
IAP	ILS OR LOC RWY 25R		1	KLAS	LAS VEGAS	NV (US)
IAP	ILS OR LOC/DME RWY 1L		1	KLAS	LAS VEGAS	NV (US)
IAP	RVAV (GPS) RWY 1R		2	KLAS	LAS VEGAS	NV (US)
IAP	VOR RWY 25 L/R		1	KLAS	LAS VEGAS	NV (US)
IAP	VOR/DME-A		1	KLAS	LAS VEGAS	NV (US)
STAR	COYOT			KPHX	PHOENIX	AZ (US)
STAR	MAIER (RNAV)			KPHX	PHOENIX	AZ (US)
STAR	ADDEL (RNAV)		2	KHND	LAS VEGAS	NV (US)
STAR	JOMIX (RNAV)		2	KHND	LAS VEGAS	NV (US)
STAR	KNGMN (RNAV)		2	KHND	LAS VEGAS	NV (US)
STAR	NOOTN (RNAV)		2	KHND	LAS VEGAS	NV (US)
STAR	CLARR			KLAS	LAS VEGAS	NV (US)
STAR	CRESO			KLAS	LAS VEGAS	NV (US)
STAR	FUZZY			KLAS	LAS VEGAS	NV (US)
STAR	GRNPA (RNAV)		2	KLAS	LAS VEGAS	NV (US)
STAR	KADDY		1	KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)		2	KLAS	LAS VEGAS	NV (US)
STAR	LUXOR		1	KLAS	LAS VEGAS	NV (US)
STAR	SUNST (RNAV)		2	KLAS	LAS VEGAS	NV (US)
STAR	TYSSN (RNAV)		2	KLAS	LAS VEGAS	NV (US)

QUALITY CHECKED

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED PAT 2 CONTROLLER.

DEVELOPED BY:	**DATE:** 01/30/2012	**OFFICE:** AJV-354	**NAME:** ADOLFO URRUTIA (AISHAT NAUZO)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-354	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS/HND
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CHIPZ **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 355850.00N/1143630.00W **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
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	SUNST (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: CLARR **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 354032.45N/1154047.11W **TYPE:** WP, INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LAS VEGAS	LAS	VORTAC	H	211.48	226.48	35.05	35.05		12000	45000
2	BEATTY	BTY	VORTAC	H	126.12	142.12		85.02		12000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BTY	VORTAC	R-126	86	12000	17500

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

REMARKS:
LAS VEGAS (FAC 1) AND BEATTY (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J9-100-146	1, 2				(US)
EN ROUTE	V135	1, 2				(US)
EN ROUTE	V394	1, 2				(US)
STAR	CLARR			KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED DIST FROM FAC 1 35.05 NM.
ADDED DIST FROM FAC 2 85.02 NM.
REMOVED FAC 3.
UPDATED BTY VORTAC ESV.
ADDED REMARK, LAS VEGAS (FAC 1) AND BEATTY (FAC 2) USED TO ESTABLISH FIX COORDINATES.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 345744.85N/1163441.40W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	DAGGETT	DAG	VORTAC	L							17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	DAG	VORTAC	043.60	223.60	L	1		5000	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	344515.00N/1164606.00W	5283	4E
1	200	AAO	345536.00N/1162551.00W	3363	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
UPN	230	190

REASON FOR NONSTANDARD HOLDING:
PAT 1 SPECIAL USE AREAS

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 7800.

REMARKS:
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-2502E AND/OR SILVER MOA AND/OR BARSTOW MOA.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	VAN NUYS			KBUR	BURBANK	CA (US)
DP	DAGGETT			KDAG	DAGGETT	CA (US)
DP	TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES			KDAG	DAGGETT	CA (US)
DP	ANAHEIM			KFUL	FULLERTON	CA (US)
DP	ANAHEIM			KLGB	LONG BEACH	CA (US)
DP	SENIC (RNAV)			KLGB	LONG BEACH	CA (US)
DP	GABRE			KLAX	LOS ANGELES	CA (US)
DP	LOOP			KLAX	LOS ANGELES	CA (US)
DP	OSHNN (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	SEBBY			KLAX	LOS ANGELES	CA (US)
DP	HASSA			KONT	ONTARIO	CA (US)
DP	ONTARIO			KONT	ONTARIO	CA (US)
DP	POMONA			KONT	ONTARIO	CA (US)
DP	CATHEDRAL			KPSP	PALM SPRINGS	CA (US)
DP	ANAHEIM			KSNA	SANTA ANA	CA (US)
DP	IRVINE			KSNA	SANTA ANA	CA (US)
DP	MUSEL			KSNA	SANTA ANA	CA (US)
DP	PEEER			KSMO	SANTA MONICA	CA (US)
DP	NEWHALL			KVNY	VAN NUYS	CA (US)
EN ROUTE	V394					(US)
EN ROUTE	V587		1			CA (US)
IAP	VOR OR TACAN RWY 22			KDAG	DAGGETT	CA (US)
STAR	JANNY (RNAV)			KBUR	BURBANK	CA (US)
STAR	LYNXX			KBUR	BURBANK	CA (US)
STAR	HITOP			KRIV	RIVERSIDE	CA (US)
STAR	MARCH			KRIV	RIVERSIDE	CA (US)
STAR	JOMIX (RNAV)			KHND	LAS VEGAS	NV (US)
STAR	CLARR			KLAS	LAS VEGAS	NV (US)
STAR	CRESO			KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)

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

COMPULSORY REPORTING POINT: NO

QUALITY CHECKED

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED PAT 1 AIRSPEED AT 200 CONTROLLING OBSTRUCTION.

DEVELOPED BY:	**DATE:** 01/05/2012	**OFFICE:** AJV-354	**NAME:** ADOLFO URRUTIA (AISHAT NAUZO)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-354	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: SOCAL TRACON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JOTNU **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 341933.11N/1153146.29W **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	GOFFS	GFS	VORTAC	L	185.00	200.00	51.30	51.30		12000	22000
2	TWENTYNINE PALMS	TNP	VORTAC	L	028.00	043.00	17.51	17.51		6600	42000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
GFS	VORTAC	R-185	52	12000	22000
TNP	VORTAC	R-028	18	14500	42000

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

REMARKS:
GOFFS (FAC 1) AND TWENTYNINE PALMS (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SBONO	2		KPSP	PALM SPRINGS	CA (US)
EN ROUTE	V514	1, 2				(US)
EN ROUTE	V538	1, 2				(US)
STAR	CLOWD	2		KPSP	PALM SPRINGS	CA (US)
STAR	JOMIX (RNAV)			KHND	LAS VEGAS	NV (US)
STAR	BOACH (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	CLARR	2		KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	MCCARRAN	2		KLAS	LAS VEGAS	NV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED REMARK, GOFFS (FAC 1) AND TWENTYNINE PALMS (FAC 2) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 01/05/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KEPEC **STATE:** NV **COUNTRY:** US

LATITUDE/LONGITUDE: 355816.64N/1153348.74W **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
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
FIX MOVED 1.75 NM SOUTHWEST; COORDINATES UPDATED.
REMOVED FAC 1.
UPDATED FIX USE.
FIX NOT RENAMED PER AT REQUEST.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KIMME **STATE:** NV **COUNTRY:** US

LATITUDE/LONGITUDE: 355943.00N/1144950.00W **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
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	SUNST (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MISEN **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 350608.46N/1162413.86W **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	DAGGETT	DAG	VORTAC	L	030.66	045.66	12.00	12.00		24000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DAG	VORTAC	R-031	12	24000	45000

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J9-100-146	1				(US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	SUNST (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED DIST FROM FAC 1 12.00 NM.
REMOVED FAC 2.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: NIPZO **STATE:** NV **COUNTRY:** US

LATITUDE/LONGITUDE: 360106.84N/1151210.17W **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
DP	SMOKK (SPECIAL)			KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	SUNST (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: DP, STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: POKRR **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 360345.49N/1143553.43W **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
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	SUNST (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
FIX MOVED 2061.95 FT SOUTHEAST; COORDINATES UPDATED.
REMOVED FAC 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PRINO **STATE:** AZ **COUNTRY:** US

LATITUDE/LONGITUDE: 360423.60N/1144338.86W **TYPE:** WP, INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LAS VEGAS	I-RLE	LOC/DME		074.96	089.96	21.27	21.27		8000	20000
2	BOULDER CITY	BLD	VORTAC	H	039.95	054.95		8.09		8000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-RLE	LOC/DME	R-075	22	8000	20000

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

REMARKS:
LAS VEGAS (FAC 1) AND BOULDER CITY (FAC 2) USED TO ESTABLISH FIX COORDINATES
I-RLE DME COORDINATES: 360422.53N/1150953.38W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 25L	1, 2		KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	SUNST (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	TYSSN (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED REMARK, LAS VEGAS (FAC 1) AND BOULDER CITY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 01/10/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS ATCT/LAS APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SUNST **STATE:** NV **COUNTRY:** US

LATITUDE/LONGITUDE: 360037.00N/1150451.00W **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	SUNST (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TWENTYNINE PALMS VORTAC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 340644.04N/1154611.66W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	TWENTYNINE PALMS	TNP	VORTAC	L							45000

FIX RESTRICTIONS:
MCA V514-538 10200 NORTHEAST BOUND

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	TNP	VORTAC	075.35	255.35	L	1-1 1/2		4700	17500	5	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	340231.40N/1154046.80W	3600	6C
1	310	AAO	341323.80N/1154131.00W	4826	6C

REASON FOR NONSTANDARD HOLDING:
PAT 1 R-2501E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES	KTNP	TWENTYNINE PALMS	CA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-2501E FROM 14000 TO 17500.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CHEZZ (RNAV)			KPHX	PHOENIX	AZ (US)
DP	DSERT			KPHX	PHOENIX	AZ (US)
DP	CATHEDRAL			KPSP	PALM SPRINGS	CA (US)
DP	PALM SPRINGS			KPSP	PALM SPRINGS	CA (US)
DP	CACTI			KNXP	TWENTYNINE PALMS	CA (US)
DP	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES		1	KTNP	TWENTYNINE PALMS	CA (US)
DP	BOACH (RNAV)			KLAS	LAS VEGAS	NV (US)
DP	MCCARRAN			KLAS	LAS VEGAS	NV (US)
EN ROUTE	J10					(US)
EN ROUTE	J104					(US)
EN ROUTE	J231					(US)
EN ROUTE	J4					(US)
EN ROUTE	V208					(US)
EN ROUTE	V264		1			(US)
EN ROUTE	V370					(US)
EN ROUTE	V514					(US)
EN ROUTE	V538					(US)
IAP	COPTER TACAN RWY 28			KNXP	TWENTYNINE PALMS	CA (US)
IAP	HI-TACAN RWY 28			KNXP	TWENTYNINE PALMS	CA (US)
IAP	HI-VOR/DME RWY 28			KNXP	TWENTYNINE PALMS	CA (US)
IAP	TACAN RWY 28			KNXP	TWENTYNINE PALMS	CA (US)
IAP	VOR/DME RWY 28			KNXP	TWENTYNINE PALMS	CA (US)
IAP	RNAV (GPS) RWY 26			KTNP	TWENTYNINE PALMS	CA (US)
IAP	VOR RWY 26		1	KTNP	TWENTYNINE PALMS	CA (US)
STAR	BASET			KLAX	LOS ANGELES	CA (US)
STAR	DOWNE			KLAX	LOS ANGELES	CA (US)
STAR	REDEYE			KLAX	LOS ANGELES	CA (US)
STAR	REEDR			KLAX	LOS ANGELES	CA (US)
STAR	SEAVU			KLAX	LOS ANGELES	CA (US)
STAR	CLOWD			KPSP	PALM SPRINGS	CA (US)
STAR	SBONO			KPSP	PALM SPRINGS	CA (US)
STAR	BARET			KSAN	SAN DIEGO	CA (US)
STAR	LYNDI (RNAV)			KSAN	SAN DIEGO	CA (US)
STAR	JOMIX (RNAV)			KHND	LAS VEGAS	NV (US)
STAR	CLARR			KLAS	LAS VEGAS	NV (US)

QUALITY CHECKED

STAR KEPEC (RNAV) KLAS LAS VEGAS NV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED PAT 1 AIRSPEEDS AT 200 AND 310 CONTROLLING OBSTRUCTIONS.

DEVELOPED BY: **DATE:** 01/05/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: PHX
OTHER: ZAB

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZELMA **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 344659.99N/1151947.51W **TYPE:** WP, INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	GOFFS	GFS	VORTAC	L	185.00	200.00	22.17	22.17		7400	22000
2	NEEDLES	EED	VORTAC	H	256.65	271.65		42.31		8000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
GFS	VORTAC	R-185	23	18500	22000
EED	VORTAC	R-257	43	8000	15200

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

REMARKS:
GOFFS (FAC 1) AND NEEDLES (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PALLY (RNAV)			KHND	LAS VEGAS	NV (US)
DP	BOACH (RNAV)			KLAS	LAS VEGAS	NV (US)
EN ROUTE	V12	1, 2				(US)
EN ROUTE	V514	1, 2				(US)
EN ROUTE	V538	1, 2				(US)
STAR	CLOWD	2		KPSP	PALM SPRINGS	CA (US)
STAR	SBONO	2		KPSP	PALM SPRINGS	CA (US)
STAR	JOMIX (RNAV)			KHND	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED REMARK, GOFFS (FAC 1) AND NEEDLES (FAC 2) USED TO ESTABLISH FIX COORDINATES.
ADDED NEEDLES ESV.

DEVELOPED BY: **DATE:** 01/05/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: IPUMY **STATE:** NV **COUNTRY:** US

LATITUDE/LONGITUDE: 360151.82N/1152231.18W **TYPE:** WP, DME

INFO ONLY

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	BOULDER CITY	BLD	VORTAC	H	260.00	275.00	25.00	25.00		11000	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	ADDEL (RNAV)			KHND	LAS VEGAS	NV (US)
STAR	FUZZY	1		KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)			KLAS	LAS VEGAS	NV (US)
STAR	SUNST (RNAV)			KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
ADDED DIST FROM FAC DATA FOR FAC 1.
DELETED KEPEC FROM FAC 2.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/28/2011 **OFFICE:** AVN-130 **NAME:** MARK ADAMS

APPROVED BY: **DATE:** 04/07/2011 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: SKEBR **STATE:** NV **COUNTRY:** US

INFO ONLY

LATITUDE/LONGITUDE: 354525.77N/1153432.06W **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	LAS VEGAS	LAS	VORTAC	H	211.48	226.48	28.00	28.00		11000	23000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	LAS	VORTAC	211.48	031.48	R	1-1 1/2		11000	23000	10	20
2	SW		WP	211.48	031.48	R		7	11000	23000	10	20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	200' AAO	353133.00N/1153521.00W	8478	4E
2	230	200' AAO	353133.00N/1153521.00W	8478	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
LAS VEGAS (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS)-B			KHND	LAS VEGAS	NV (US)
IAP	RNAV (GPS) RWY 1R			KLAS	LAS VEGAS	NV (US)
STAR	CLARR	1	1	KLAS	LAS VEGAS	NV (US)
STAR	KEPEC (RNAV)		2	KLAS	LAS VEGAS	NV (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 02/10/2011

REASON FOR REVISION:
DELETED FAC 2, NO LONGER REQUIRED.
ADDED DIST FROM FAC TO FAC 1, NEW FORMAT.
UPDATED FIX USE, NEW FORMAT.

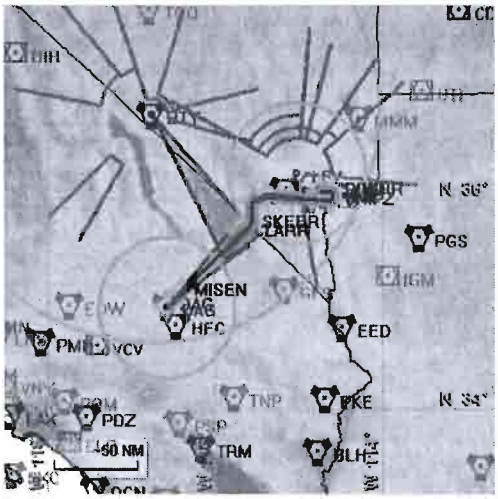
DEVELOPED BY: **DATE:** 08/31/2010 **OFFICE:** AVN-130 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** 12/27/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAS APP CON
OTHER:

QUALITY CHECKED



Name:	bachmanw2
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	9/30/2011 9:34:00 AM
Input File:	KLAS.KEPEC3.STAR. DA...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (Lvl 1) Date: 1994-1996

Results Summary:

Flyability	✔
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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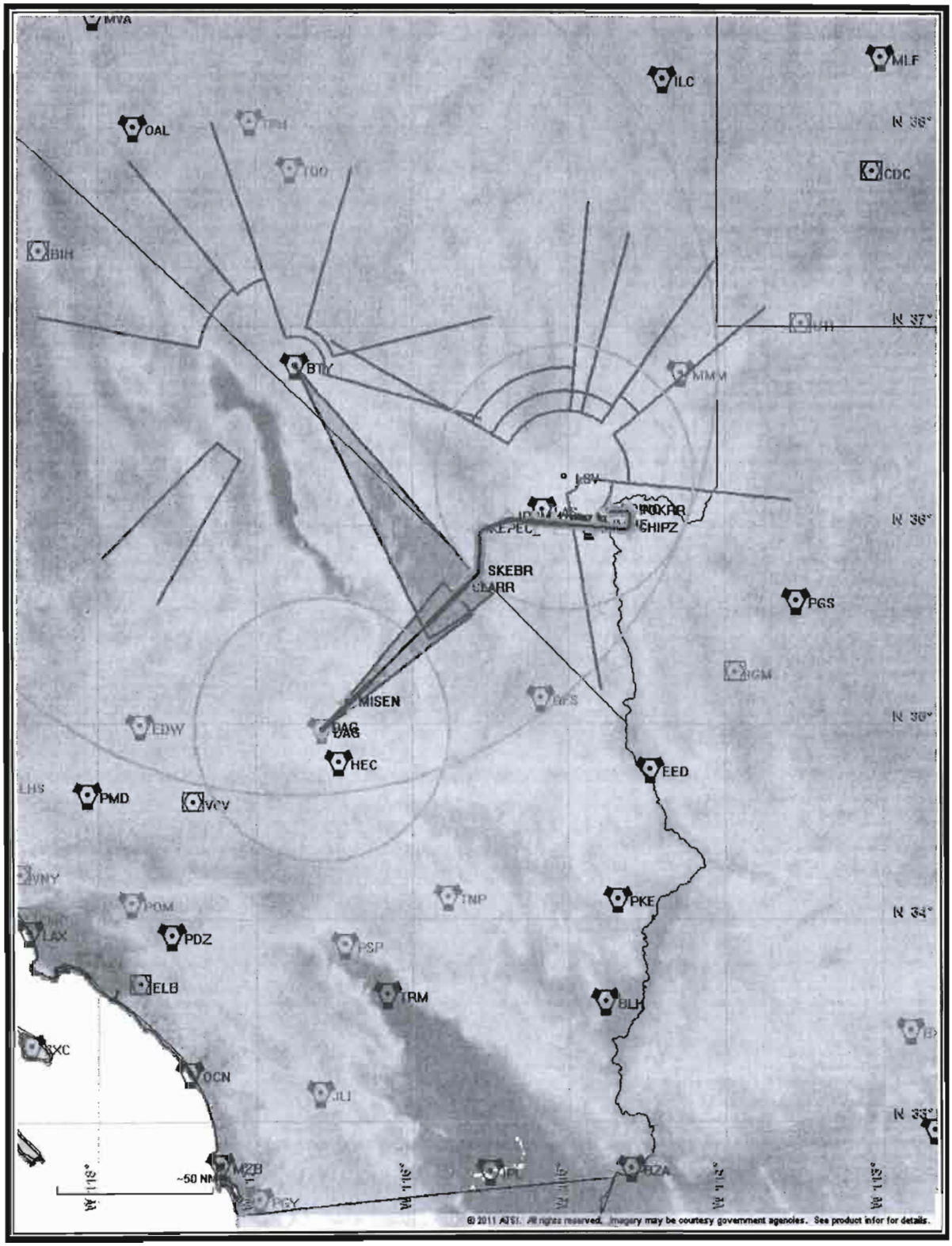
MVA
ILC
MLF
OAL
N 38°
CDC
BIH
N 37°
BTY
MMM
SKEBR
PGS
MISEN
EDW
HEC
EED
PMD
VCV
PKE
PDZ
PSP
ELB
TRM
BLH
OCN
N 34°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
DAG	WP	N 34° 57' 44.84" W 116° 34' 41.40"	22500.0	Step	280.0	Fly By	TF
MISEN	WP	N 35° 6' 8.46" W 116° 24' 13.86"	22500.0	Step	280.0	Fly By	TF
CLARR	WP	N 35° 40' 32.45" W 115° 40' 47.11"	13000.0	Step	250.0	Fly By	TF
SKEBR	WP	N 35° 45' 25.77" W 115° 34' 32.06"	10800.0	Step	250.0	Fly By	TF
KEPEC_	WP	N 35° 58' 16.64" W 115° 33' 48.74"	10800.0	Step	230.0	Fly By	TF
IPUMY	WP	N 36° 1' 51.82" W 115° 22' 31.18"	10800.0	Step	230.0	Fly By	TF
NIPZO	WP	N 36° 1' 6.84" W 115° 12' 10.17"	8000.0	Step	230.0	Fly By	TF
SUNST	WP	N 36° 0' 37.00" W 115° 4' 51.00"	8000.0	Step	210.0	Fly By	TF
KIMME	WP	N 35° 59' 43.00" W 114° 49' 50.00"	8000.0	Step	210.0	Fly By	TF
CHIPZ	WP	N 35° 58' 50.00" W 114° 36' 30.00"	8000.0	Step	170.0	Fly By	TF
POKRR	WP	~~N 36° 4' 5.43"~~ ~~W 114° 35' 58.68"~~	8000.0	Step	170.0	Fly By	TF
PRINO	WP	N 36° 4' 23.60" W 114° 43' 38.86"	8000.0	Step	170.0	Fly Over	TF

Pokrr = 360345.49N - 1143553.43W
to match Sunst

Flyability

Return To Summary

Settings:

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

Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

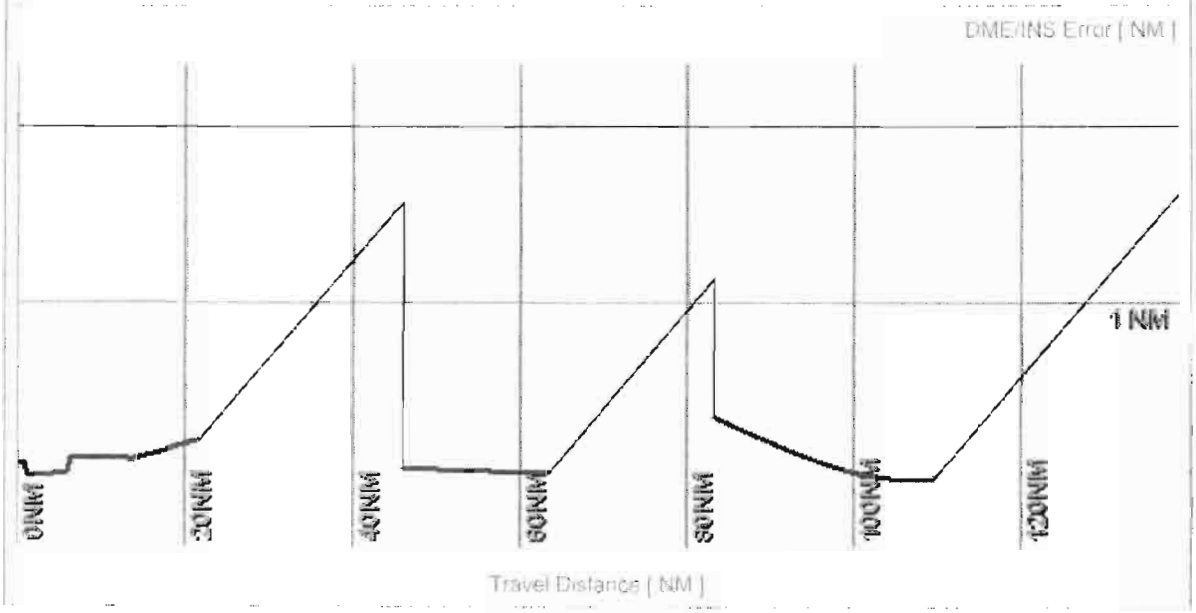
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 1): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , 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: 7

Maximum DME Error: 1.446 NM.

4 Critical DMEs were found.

Available DMEs: BLD, HEC, PDZ, PMD, BTY, DAG, LAS, LSV



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BLD	N 35° 59' 44.83" W 114° 51' 48.85"	H	Database	YES	**1.943**	Enabled	19.6 %	19.6 %
2	HEC	N 34° 47' 49.26" W 116° 27' 46.52"	H	Database	NO	1.681	Enabled	10.4 %	10.4 %
3	PMD	N 34° 37' 53.03" W 118° 3' 49.76"	H	Database	NO	1.724	Enabled	14.8 %	14.8 %
4	BTY	N 36° 48' 2.11" W 116° 44' 51.51"	H + ESV	User	YES	**2.910**	Enabled	17.7 %	17.7 %
5	DAG	N 34° 57' 44.85" W 116° 34' 41.40"	L + ESV	User	YES	**1.847**	Enabled	7.8 %	7.8 %
6	LAS	N 36° 4' 46.93" W 115° 9' 35.27"	H	Database	NO	1.446	Enabled	4.8 %	4.9 %
7	LSV	N 36° 14' 40.77" W 115° 1' 30.27"	L	User	YES	**3.317**	Enabled	19.0 %	19.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	BLD	HEC	PMD	PDZ	BTY	
12.0	BLD	HEC	PMD	DAG	BTY	
51.2	DAG	BTY	LAS			
61.4	BLD	BTY	LAS			
67.8	BLD	LSV	LAS			
80.2	BLD	LSV	LAS			
90.3	BLD	LSV	LAS			
99.3	BLD	LSV	LAS			
105.2	BLD	LSV	LAS			
117.4	BLD	LAS				
126.8	BLD	LAS				
131.4	BLD	LAS				

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 35° 12' 44.40" W 116° 15' 58.31"	N 35° 29' 43.65" W 115° 54' 32.79"	24.4
	VOR: DAG	Available from N 35° 12' 44.40" W 116° 15' 58.31" to N 35° 25' 37.90" W 115° 59' 44.02"	
	VOR: HEC	Available from N 35° 12' 44.40" W 116° 15' 58.31" to N 35° 22' 34.60" W 116° 3' 35.63"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 35° 41' 54.87" W 115° 39' 1.80"	N 35° 59' 3.54" W 115° 31' 22.64"	19.8
	VOR: LAS	Available from N 35° 41' 54.87" W 115° 39' 1.80" to N 35° 59' 3.54" W 115° 31' 22.64"	
	VOR: BLD	Available from N 35° 43' 38.86" W 115° 36' 48.88" to N 35° 59' 3.54" W 115° 31' 22.64"	
3	N 36° 0' 18.08" W 114° 59' 33.45"	N 36° 4' 23.58" W 114° 43' 37.97"	29.0
	VOR: BLD	Available from N 36° 0' 18.08" W 114° 59' 33.45" to N 36° 4' 23.58" W 114° 43' 37.97"	
	VOR: LAS	Available from N 36° 0' 18.08" W 114° 59' 33.45" to N 36° 4' 23.58" W 114° 43' 37.97"	

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	LSV	N 36° 14' 40.77" W 115° 1' 30.27"	L	1863.6	135.5	LSV	Used

Restriction:	Bearing [True]: 35.0° to 50.0° Bearing [Mag]: 20.0° to 35.0°	Distance: Beyond 30.0 NM Altitude: Below 8000.0 Ft.
Restriction:	Bearing [True]: 50.0° to 95.0° Bearing [Mag]: 35.0° to 80.0°	Distance: Beyond 20.0 NM Altitude: Below 99999.0 Ft.
Restriction:	Bearing [True]: 95.0° to 170.0° Bearing [Mag]: 80.0° to 155.0°	Distance: Beyond 5.0 NM Altitude: Below 10000.0 Ft.
Restriction:	Bearing [True]: 95.0° to 170.0° Bearing [Mag]: 80.0° to 155.0°	Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.
Restriction:	Bearing [True]: 300.0° to 5.0° Bearing [Mag]: 285.0° to 350.0°	Distance: Beyond 20.0 NM Altitude: Below 11000.0 Ft.
Restriction:	Bearing [True]: 300.0° to 5.0° Bearing [Mag]: 285.0° to 350.0°	Distance: Beyond 26.0 NM Altitude: Below 15000.0 Ft.
Restriction:	Bearing [True]: 300.0° to 5.0° Bearing [Mag]: 285.0° to 350.0°	Distance: Beyond 33.0 NM Altitude: Below 99999.0 Ft.
Restriction:	Bearing [True]: 5.0° to 15.0° Bearing [Mag]: 350.0° to 0.0°	Distance: Beyond 20.0 NM Altitude: Below 9000.0 Ft.
Restriction:	Bearing [True]: 5.0° to 15.0° Bearing [Mag]: 350.0° to 0.0°	Distance: Beyond 26.0 NM Altitude: Below 15000.0 Ft.
Restriction:	Bearing [True]: 15.0° to 35.0° Bearing [Mag]: 0.0° to 20.0°	Distance: Beyond 20.0 NM Altitude: Below 8000.0 Ft.
Restriction:	Bearing [True]: 15.0° to 35.0° Bearing [Mag]: 0.0° to 20.0°	Distance: Beyond 26.0 NM Altitude: Below 12000.0 Ft.

DME/DME (Continued.)

Return To Summary

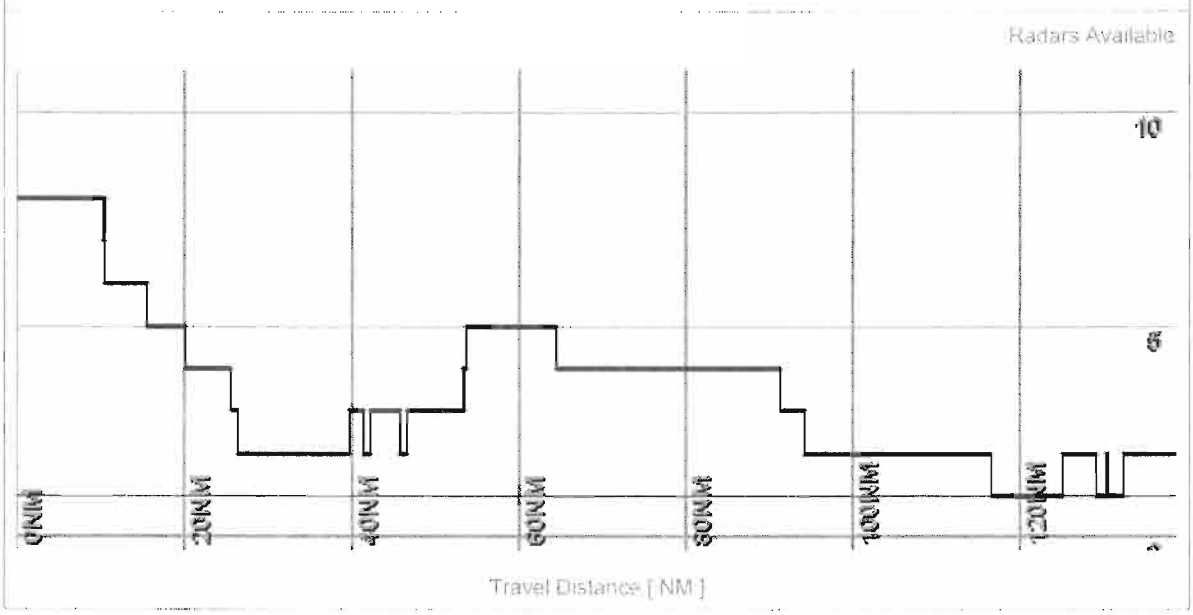
User DMEs (Continued.)

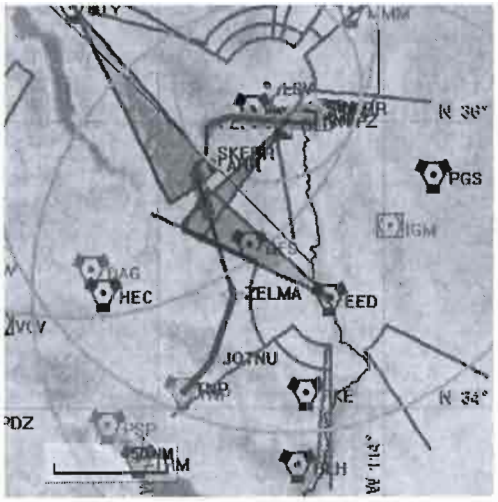
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
2	BTY	N 36° 48' 2.11" W 116° 44' 51.51"	H	2930.0	114.70	BTY	Used
		Restriction:	Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°		Distance: Beyond 33.0 NM Altitude: Below 10500.0 Ft.		
		Restriction:	Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°		Distance: Beyond 30.0 NM Altitude: Below 10200.0 Ft.		
		Restriction:	Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°		Distance: Beyond 28.0 NM Altitude: Below 9000.0 Ft.		
		Restriction:	Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°		Distance: Beyond 9.0 NM Altitude: Below 99999.0 Ft.		
		Restriction:	Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 0.0° to 60.0°		Distance: Beyond 12.0 NM Altitude: Below 99999.0 Ft.		
		ESV:	Bearing [True]: 138.0° to 153.0° Bearing [Mag]: 122.0° to 137.0°		Arc Distance: Out to 92.0 NM Altitude: 12000.0 to 17500.0 Ft.		
3	DAG	N 34° 57' 44.85" W 116° 34' 41.40"	L	1760.0	113.20	DAG	Used
		ESV:	Bearing [True]: 40.0° to 53.0° Bearing [Mag]: 25.0° to 38.0°		Arc Distance: Out to 59.0 NM Altitude: 12000.0 to 45000.0 Ft.		

Radar Analysis

Return To Summary

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





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Version:	2.35
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Input File:	KLAS.KEPEC3.STAR.TNP...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (Lvl 1) Date: 1994-1996

Results Summary:

Flyability	✔
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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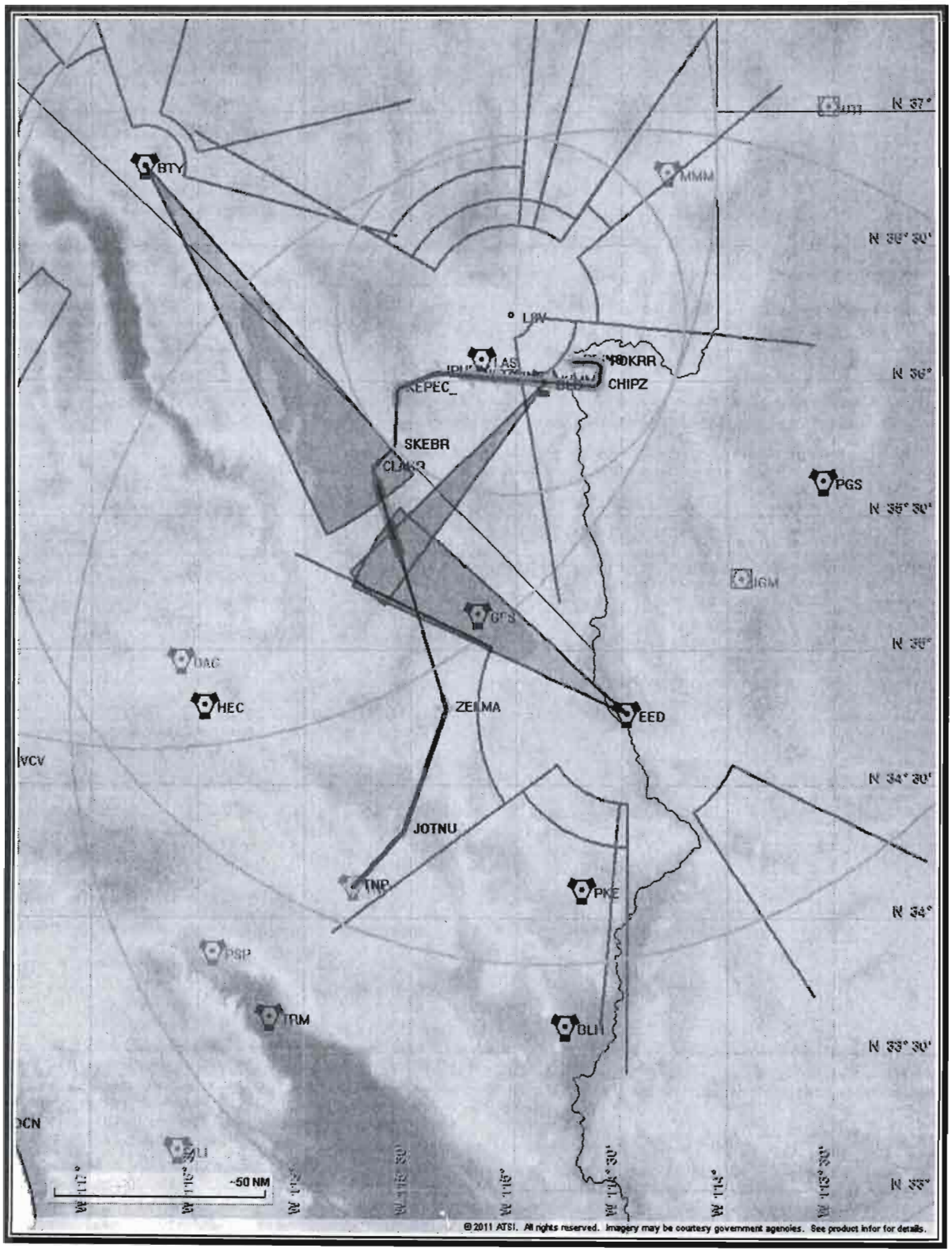
N 37°
BTY
MMM
N 36° 30'
LAS
KEPEC
CHIPZ
N 36°
SKEBR
PGS
N 35° 30'
IGM
GFS
N 35°
DAG
HEC
ZELMA
EED
VCV
N 34° 30'
JOTNU
TNP
PKE
N 34°
PSP
TRM
BLH
N 33° 30'
DCN
50 NM
N 33°
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
TNP	WP	N 34° 6' 44.04" W 115° 46' 11.66"	16700.0	Step	280.0	Fly By	TF
JOTNU	WP	N 34° 19' 33.11" W 115° 31' 46.29"	16700.0	Step	280.0	Fly By	TF
ZELMA	WP	N 34° 47' 0.00" W 115° 19' 47.51"	16700.0	Step	280.0	Fly By	TF
CLARR	WP	N 35° 40' 32.45" W 115° 40' 47.11"	13000.0	Step	250.0	Fly By	TF
SKEBR	WP	N 35° 45' 25.77" W 115° 34' 32.06"	10800.0	Step	250.0	Fly By	TF
KEPEC_	WP	N 35° 58' 16.64" W 115° 33' 48.74"	10800.0	Step	230.0	Fly By	TF
IPUMY	WP	N 36° 1' 51.82" W 115° 22' 31.18"	10800.0	Step	230.0	Fly By	TF
NIPZO	WP	N 36° 1' 6.84" W 115° 12' 10.17"	8000.0	Step	210.0	Fly By	TF
SUNST	WP	N 36° 0' 37.00" W 115° 4' 51.00"	8000.0	Step	210.0	Fly By	TF
KIMME	WP	N 35° 59' 43.00" W 114° 49' 50.00"	8000.0	Step	210.0	Fly By	TF
CHIPZ	WP	N 35° 58' 50.00" W 114° 36' 30.00"	8000.0	Step	170.0	Fly By	TF
POKRR	WP	N 36° 4' 5.43" W 114° 35' 58.68"	8000.0	Step	170.0	Fly By	TF
PRINO	WP	N 36° 4' 23.60" W 114° 43' 38.86"	8000.0	Step	170.0	Fly Over	TF

Flyability

Return To Summary

Settings:

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

Table:

200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

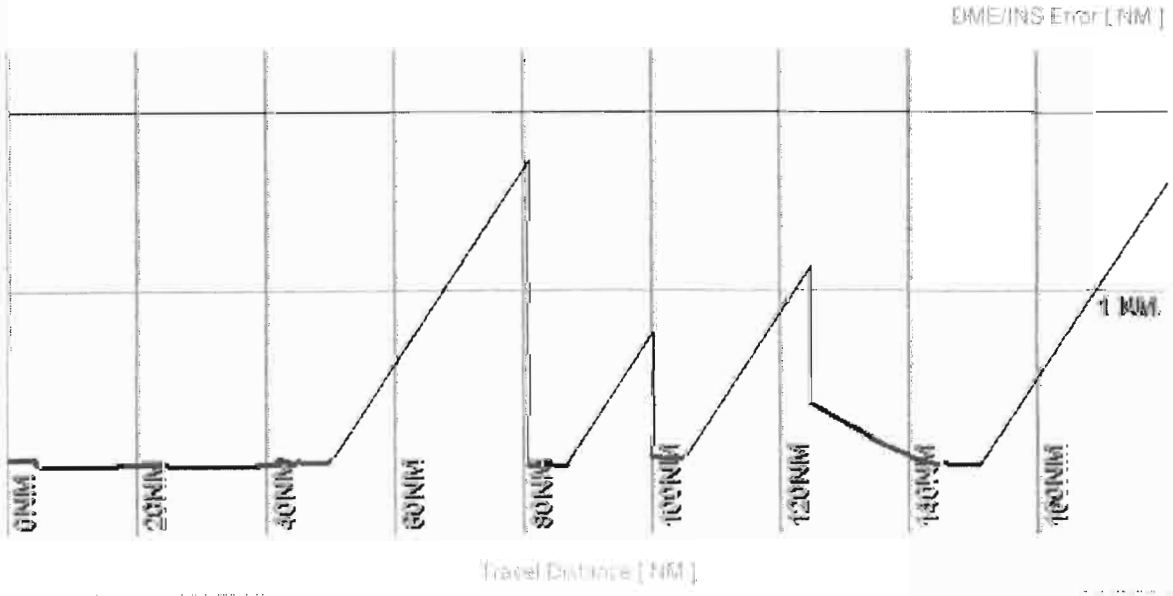
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 1): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , 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: 13

Maximum DME Error: 1.539 NM.

4 Critical DMEs were found.

Available DMEs: EED, HEC, IPL, PDZ, PKE, PSP, TRM, BLH, TNP, GFS, BLD, BTY, LAS, LSV



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	IPL	N 32° 44' 55.91" W 115° 30' 30.88"	H	Database	NO	1.539	Enabled	2.3 %	2.3 %
2	PDZ	N 33° 55' 6.85" W 117° 31' 46.42"	H	Database	NO	1.539	Enabled	0.0 %	0.0 %
3	EED	N 34° 45' 57.62" W 114° 28' 26.76"	H + ESV	User	NO	1.623	Enabled	5.7 %	5.7 %
4	HEC	N 34° 47' 49.26" W 116° 27' 46.52"	H	Database	NO	1.539	Enabled	17.0 %	17.0 %
5	PKE	N 34° 6' 7.10" W 114° 40' 55.44"	H	Database	NO	1.539	Enabled	7.2 %	7.2 %
6	BLH	N 33° 35' 45.83" W 114° 45' 40.58"	H	Database	NO	1.539	Enabled	0.0 %	0.0 %
7	TRM	N 33° 37' 41.14" W 116° 9' 36.71"	H	Database	NO	1.539	Enabled	1.4 %	1.4 %
8	TNP	N 34° 6' 44.04" W 115° 46' 11.66"	L	Database	NO	1.539	Enabled	14.3 %	14.3 %
9	GFS	N 35° 7' 52.17" W 115° 10' 35.24"	L	Database	NO	1.681	Enabled	10.4 %	10.4 %
10	BLD	N 35° 59' 44.83" W 114° 51' 48.85"	H + ESV	User	YES	**2.306**	Enabled	17.7 %	17.7 %
11	BTY	N 36° 48' 2.11" W 116° 44' 51.51"	H + ESV	User	YES	**1.814**	Enabled	2.7 %	2.7 %
12	LAS	N 36° 4' 46.93" W 115° 9' 35.27"	H	Database	YES	**1.814**	Enabled	2.7 %	2.7 %
13	LSV	N 36° 14' 40.77" W 115° 1' 30.27"	L	User	YES	**3.312**	Enabled	14.6 %	14.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	HEC	TNP	IPL	PKE	TRM	EED
16.9	HEC	TNP	IPL	PKE	EED	
27.1	HEC	TNP	GFS	PKE	EED	
46.0	HEC	EED	GFS	PKE		
80.5	BLD	EED	GFS	BTY	LAS	
101.7	BLD	LAS	BTY			
108.9	BLD	LAS	LSV			
121.3	BLD	LAS	LSV			
131.4	BLD	LAS	LSV			
140.4	BLD	LAS	LSV			

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
146.3	BLD	LAS	LSV			
158.6	BLD	LAS				
167.9	BLD	LAS				
172.6	BLD	LAS				

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 34° 49' 46.53" W 115° 20' 51.89"	N 35° 19' 20.22" W 115° 32' 24.71"	31.0
	VOR: GFS	Available from N 34° 49' 46.53" W 115° 20' 51.89" to N 35° 19' 20.22" W 115° 32' 24.71"	
2	N 35° 24' 41.15" W 115° 34' 31.00"	N 35° 37' 36.29" W 115° 39' 37.25"	13.6
	VOR: GFS	Available from N 35° 24' 41.15" W 115° 34' 31.00" to N 35° 37' 36.29" W 115° 39' 37.25"	
	VOR: LAS	Available from N 35° 31' 40.52" W 115° 37' 16.47" to N 35° 37' 36.29" W 115° 39' 37.25"	
3	N 35° 41' 58.01" W 115° 38' 58.39"	N 35° 59' 3.86" W 115° 31' 21.50"	19.7
	VOR: LAS	Available from N 35° 41' 58.01" W 115° 38' 58.39" to N 35° 59' 3.86" W 115° 31' 21.50"	
	VOR: BLD	Available from N 35° 43' 37.28" W 115° 36' 51.26" to N 35° 59' 3.86" W 115° 31' 21.50"	
4	N 36° 0' 18.25" W 114° 59' 36.34"	N 36° 4' 23.49" W 114° 43' 35.09"	29.0
	VOR: BLD	Available from N 36° 0' 18.25" W 114° 59' 36.34" to N 36° 4' 23.49" W 114° 43' 35.09"	
	VOR: LAS	Available from N 36° 0' 18.25" W 114° 59' 36.34" to N 36° 4' 23.49" W 114° 43' 35.09"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	LSV	N 36° 14' 40.77" W 115° 1' 30.27"	L	1863.6	135.5	LSV	Used
		Restriction:	Bearing [True]: 35.0° to 50.0° Bearing [Mag]: 20.0° to 35.0°		Distance: Beyond 30.0 NM Altitude: Below 8000.0 Ft.		
		Restriction:	Bearing [True]: 50.0° to 95.0° Bearing [Mag]: 35.0° to 80.0°		Distance: Beyond 20.0 NM Altitude: Below 99999.0 Ft.		
		Restriction:	Bearing [True]: 95.0° to 170.0° Bearing [Mag]: 80.0° to 155.0°		Distance: Beyond 5.0 NM Altitude: Below 10000.0 Ft.		
		Restriction:	Bearing [True]: 95.0° to 170.0° Bearing [Mag]: 80.0° to 155.0°		Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
		Restriction:	Bearing [True]: 300.0° to 5.0° Bearing [Mag]: 285.0° to 350.0°		Distance: Beyond 20.0 NM Altitude: Below 11000.0 Ft.		
		Restriction:	Bearing [True]: 300.0° to 5.0° Bearing [Mag]: 285.0° to 350.0°		Distance: Beyond 26.0 NM Altitude: Below 15000.0 Ft.		
		Restriction:	Bearing [True]: 300.0° to 5.0° Bearing [Mag]: 285.0° to 350.0°		Distance: Beyond 33.0 NM Altitude: Below 99999.0 Ft.		
		Restriction:	Bearing [True]: 5.0° to 15.0° Bearing [Mag]: 350.0° to 0.0°		Distance: Beyond 20.0 NM Altitude: Below 9000.0 Ft.		
		Restriction:	Bearing [True]: 5.0° to 15.0° Bearing [Mag]: 350.0° to 0.0°		Distance: Beyond 26.0 NM Altitude: Below 15000.0 Ft.		
		Restriction:	Bearing [True]: 15.0° to 35.0° Bearing [Mag]: 0.0° to 20.0°		Distance: Beyond 20.0 NM Altitude: Below 8000.0 Ft.		
		Restriction:	Bearing [True]: 15.0° to 35.0° Bearing [Mag]: 0.0° to 20.0°		Distance: Beyond 26.0 NM Altitude: Below 12000.0 Ft.		
2	BTY	N 36° 48' 2.11" W 116° 44' 51.51"	H	2930.0	114.70	BTY	Used
		Restriction:	Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°		Distance: Beyond 33.0 NM Altitude: Below 10500.0 Ft.		
		Restriction:	Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°		Distance: Beyond 30.0 NM Altitude: Below 10200.0 Ft.		
		Restriction:	Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°		Distance: Beyond 28.0 NM Altitude: Below 9000.0 Ft.		
		Restriction:	Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°		Distance: Beyond 9.0 NM Altitude: Below 99999.0 Ft.		
		Restriction:	Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 0.0° to 60.0°		Distance: Beyond 12.0 NM Altitude: Below 99999.0 Ft.		
		ESV:	Bearing [True]: 138.0° to 153.0° Bearing [Mag]: 122.0° to 137.0°		Arc Distance: Out to 92.0 NM Altitude: 12000.0 to 17500.0 Ft.		

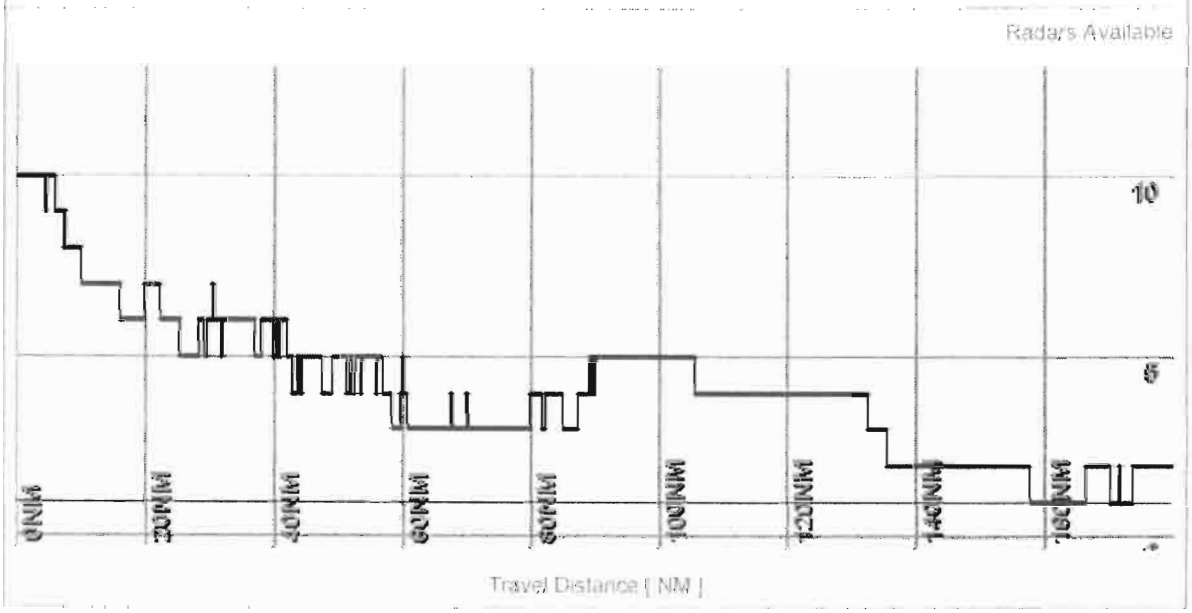
DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
3	EED	N 34° 45' 57.62" W 114° 28' 26.76"	H	620.0	115.20	EED	Used
		Restriction:	Bearing [True]: 115.0° to 145.0° Bearing [Mag]: 100.0° to 130.0°		Distance: Beyond 27.0 NM Altitude: Below 6600.0 Ft.		
		Restriction:	Bearing [True]: 180.0° to 235.0° Bearing [Mag]: 165.0° to 220.0°		Distance: Beyond 20.0 NM Altitude: Below 8000.0 Ft.		
		Restriction:	Bearing [True]: 180.0° to 235.0° Bearing [Mag]: 165.0° to 220.0°		Distance: Beyond 30.0 NM Altitude: Below 12000.0 Ft.		
		Restriction:	Bearing [True]: 185.0° to 235.0° Bearing [Mag]: 170.0° to 220.0°		Distance: Beyond 20.0 NM Altitude: Below 5800.0 Ft.		
		Restriction:	Bearing [True]: 235.0° to 295.0° Bearing [Mag]: 220.0° to 280.0°		Distance: Beyond 35.0 NM Altitude: Below 6800.0 Ft.		
		ESV:	Bearing [True]: 294.0° to 311.0° Bearing [Mag]: 279.0° to 296.0°		Arc Distance: Out to 70.0 NM Altitude: 12000.0 to 15200.0 Ft.		
4	BLD	N 35° 59' 44.83" W 114° 51' 48.85"	H	3650.0	116.70	BLD	Used
		ESV:	Bearing [True]: 217.0° to 227.0° Bearing [Mag]: 202.0° to 212.0°		Arc Distance: Out to 62.0 NM Altitude: 12000.0 to 18200.0 Ft.		

Radar Analysis

Return To Summary

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