Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 05/05/2010	Task #: 20091008228381 03003	Request #: 20091008228381
Procedure: STAR LTOWN (RNAV) SIX MEMPHIS TN KMEM		Airport ID: KMEM	Airport: MEMPHIS INTL		Reimbursable #:
City: MEMPHIS	ST: TN	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID:	Fac. Type: Proc O	Specialist: SEAN BARBEE			

Procedure Review

P1

	Rec'd	Rel'd	Full Name	Comments
Lead:	01/30/2012	05/07/2012	JAMES DUBOIS	
QA:	05/07/2012	05/07/2012	STEVEN SZUKALA	
Liaison:	05/07/2012		Alfonso	DME/DME

DME / DME

ESV REQUEST INCLUDED

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

pg 4 of 11

MEMPHIS, TN MEMPHIS INTL (KMEM) LTOWN SIX (RNAV) (STAR) ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

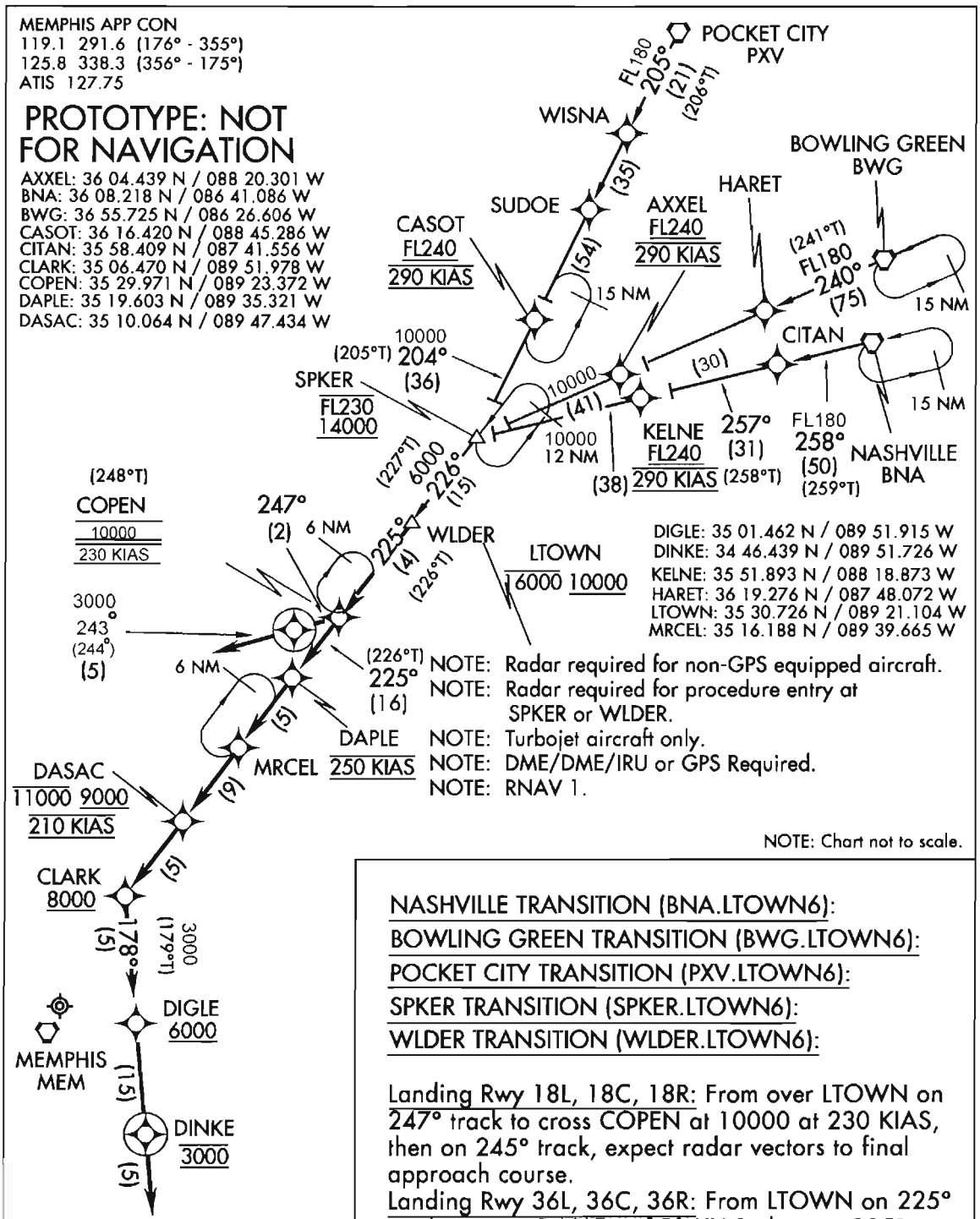
ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): AXXEL-INT, ORIG; BOWLING GREEN (BWG) VTAC, REV 9; CASOT-INT, ORIG; CITAN, ORIG; CLARK-INT, REV 4; COPEN, ORIG; DAPLE-INT, ORIG; DASAC-INT, ORIG; DIGLE, ORIG; DINKE, ORIG; HARET, ORIG; KELNE-INT, ORIG; LTOWN-INT, REV 6; MRCEL-INT, REV 5; NASHVILLE (BNA) VTAC, REV 18; SPKER-INT, REV 5; SUDOE, ORIG; WLDER-INT, REV 5; (INFO ONLY) POCKET CITY (PXV) VTAC, REV 8; WISNA-INT, ORIG.
CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

LTOWN SIX ARRIVAL (RNAV)

MEMPHIS APP CON
119.1 291.6 (176° - 355°)
125.8 338.3 (356° - 175°)
ATIS 127.75

PROTOTYPE: NOT FOR NAVIGATION

AXXEL: 36 04.439 N / 088 20.301 W
BNA: 36 08.218 N / 086 41.086 W
BWG: 36 55.725 N / 086 26.606 W
CASOT: 36 16.420 N / 088 45.286 W
CITAN: 35 58.409 N / 087 41.556 W
CLARK: 35 06.470 N / 089 51.978 W
COPEN: 35 29.971 N / 089 23.372 W
DAPLE: 35 19.603 N / 089 35.321 W
DASAC: 35 10.064 N / 089 47.434 W



DIGLE: 35 01.462 N / 089 51.915 W
DINKE: 34 46.439 N / 089 51.726 W
KELNE: 35 51.893 N / 088 18.873 W
HARET: 36 19.276 N / 087 48.072 W
LTOWN: 35 30.726 N / 089 21.104 W
MRCEL: 35 16.188 N / 089 39.665 W

NOTE: Radar required for non-GPS equipped aircraft.
NOTE: Radar required for procedure entry at SPKER or WLDER.
NOTE: Turbojet aircraft only.
NOTE: DME/DME/IRU or GPS Required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

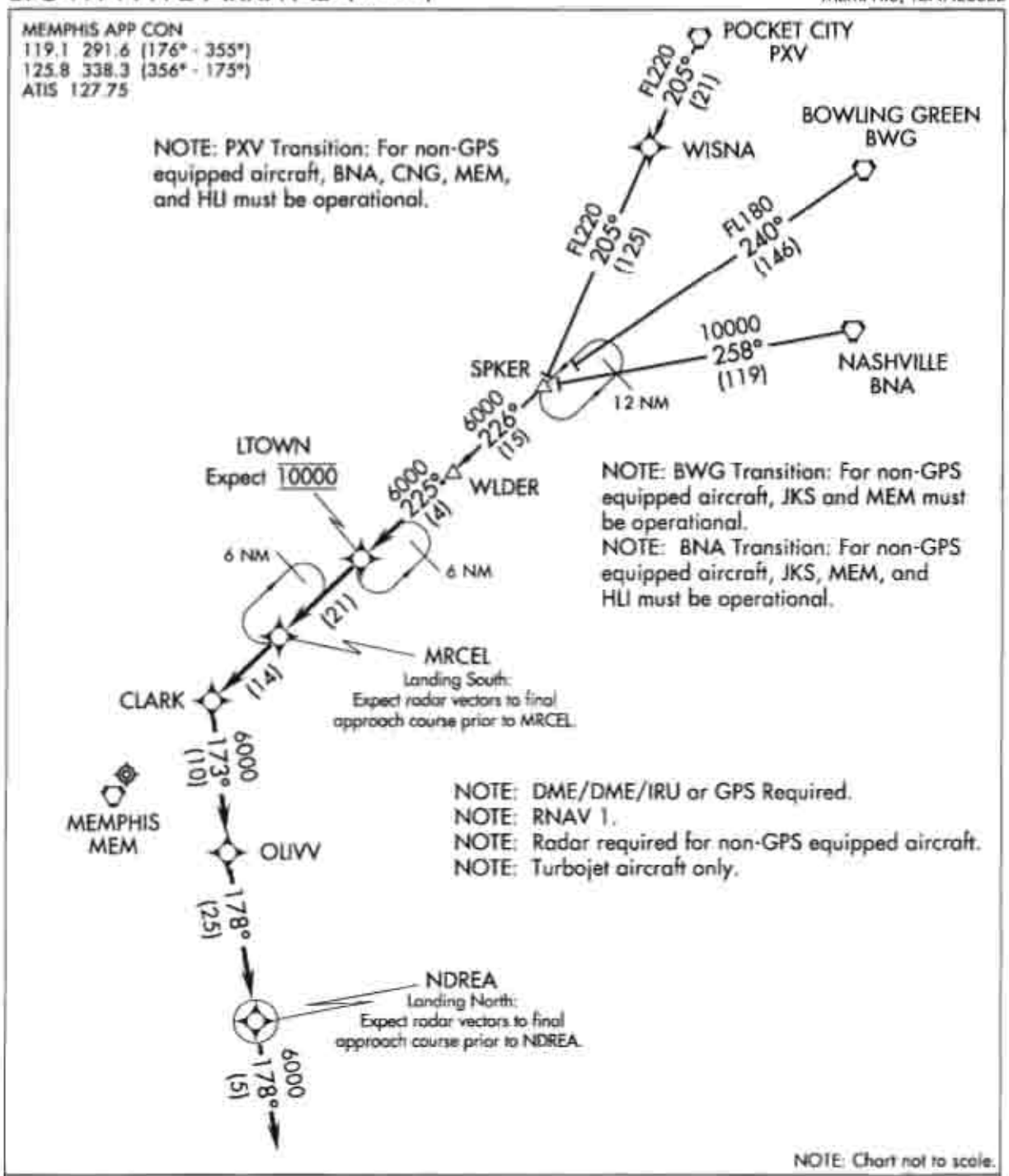
PXV: 37 55.699 N / 087 45.743 W
SPKER: 35 43.838 N / 089 04.214 W
SUDOE: 37 05.223 N / 088 16.379 W
WISNA: 37 36.472 N / 087 57.504 W
WLDER: 35 33.490 N / 089 17.556 W

NASHVILLE TRANSITION (BNA.LTOWN6):
BOWLING GREEN TRANSITION (BWG.LTOWN6):
POCKET CITY TRANSITION (PXV.LTOWN6):
SPKER TRANSITION (SPKER.LTOWN6):
WLDER TRANSITION (WLDER.LTOWN6):

Landing Rwy 18L, 18C, 18R: From over LTOWN on 247° track to cross COPEN at 10000 at 230 KIAS, then on 245° track, expect radar vectors to final approach course.
Landing Rwy 36L, 36C, 36R: From LTOWN on 225° track to cross DAPLE at 250 KIAS, then on 225° track to MRCEL, then on 225° track to cross DASAC at or below 1100 and at or above 9000 at 210 KIAS, then on 225° track to cross CLARK at/above 8000, then on 178° track. Expect radar vectors to final approach course.

OLD

LTOWN FIVE ARRIVAL (RNAV)



BOWLING GREEN TRANSITION (BWG.LTOWN5):

NASHVILLE TRANSITION (BNA.LTOWN5):

POCKET CITY TRANSITION (PXV.LTOWN5):

From over WLDER via 225° track to LTOWN, then via 225° track to MRCEL, then via 225° track to CLARK, then via 173° track to OLIVV, then via 178° track to NDREA, then via 178° heading. Expect radar vectors.

SE-1, 09 FEB 2012 to 08 MAR 2012
SE-1, 09 FEB 2012 to 08 MAR 2012

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : DYERSBURG	City : DYERSBURG	Ident : DYR	State : TN
Type/Class : TACR	Frequency : M1202	Reference No.: 10051055	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704252-010	85	199	75	60	180

Requirement: DME COVERAGE FOR LTOWN RNAV STAR

Signature: MILLER JERRY	Routing Symbol:	Date: 05/18/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-010	85	199	75	60	180	APPROVE

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-010	85	199	75	60	180	APPROVE

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-010	85	199				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : DYR	City : DYERSBURG	Ident : DYR	State : TN
Type/Class : TACR	Frequency : M1202	Reference No.: 11075795	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704252-011	217	300	58	42	230

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRIZZ HOTRD JERLE JTEEE OLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/12/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-011	217	300	58	42	230	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/12/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-011	217	300	58	42	230	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/13/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-011	217	300				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : DYR	City : DYERSBURG	Ident : DYR	State : TN
Type/Class : TACR	Frequency : M1202	Reference No.: 11075796	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704252-012	220	242	79	50	210

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRIZZ HOTRD JERLE JTEEE OLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/12/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-012	220	242	79	50	210	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/12/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-012	220	242	79	50	210	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/13/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-012	220	242				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : DYR	City : DYERSBURG	Ident : DYR	State : TN
Type/Class : TACR	Frequency : M1202	Reference No.: 11075797	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704252-013	185	198	62	32	180

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRIZZ HOTRD JERLE JTEEE OLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/12/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-013	185	198	62	32	180	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/12/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-013	185	198	62	32	180	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/13/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-013	185	198				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : DYR	City : DYERSBURG	Ident : DYR	State : TN
Type/Class : TACR	Frequency : M1202	Reference No.: 11075798	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704252-014	177	207	72	45	160

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRIZZ HOTRD JERLE JTEEE OLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/12/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-014	177	207	72	45	160	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/12/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-014	177	207	72	45	160	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/13/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704252-014	177	207				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : JACKS CREEK	City : JACKS CREEK	Ident : JKS	State : TN
Type/Class : DME	Frequency : M992	Reference No.: 11075881	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 703973-007	234	243	73	48	180

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRRIZ HOTRD JERLE PLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/19/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703973-007	234	243	73	48	180	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703973-007	234	243	73	48	180	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703973-007	234	243				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : JACKS CREEK	City : JACKS CREEK	Ident : JKS	State : TN
Type/Class : DME	Frequency : M992	Reference No.: 11075882	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 703973-008	174	233	84	62	190

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRRIZ HOTRD JERLE PLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/19/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703973-008	174	233	84	62	190	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703973-008	174	233	84	62	190	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703973-008	174	233				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : CKV	City : CLARKSVILLE	Ident : CKV	State : TN
Type/Class : DME	Frequency : M1004	Reference No.: 10051057	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 820276-001	127	210	55	60	180

Requirement: DME COVERAGE FOR LTOWN RNAV STAR

Signature: MILLER JERRY	Routing Symbol:	Date: 05/18/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 820276-001	127	210	55	60	180	APPROVE

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 820276-001	127	210	55	100	180	RESTRICT

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARRestricted. Inadequate Coverage MIN ALT FL=100

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 820276-001	127	210	55	100	180	RESTRICT

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARRestricted. Inadequate Coverage MIN ALT FL=100

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 820276-001	127	210				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : GQE	City : GILMORE	Ident : GQE	State : AR
Type/Class : DME	Frequency : M1164	Reference No.: 11075815	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 780927-020	106	196	62	32	190

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRIZZ HOTRD JERLE JTEEE OLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/13/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 780927-020	106	196	62	32	190	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 780927-020	106	196	62	32	190	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 780927-020	106	196				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HLI	City : HOLLY SPRINGS	Ident : HLI	State : MS
Type/Class : TACR	Frequency : M1158	Reference No.: 11075789	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 701415-013	243	285	96	85	190

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRIZZ HOTRD JERLE JTEEE OLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/12/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-013	243	285	96	85	190	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/12/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-013	243	285	96	85	190	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/13/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-013	243	285				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HLI	City : HOLLY SPRINGS	Ident : HLI	State : MS
Type/Class : TACR	Frequency : M1158	Reference No.: 11075790	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 701415-014	321	337	75	75	190

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRIZZ HOTRD JERLE JTEEE OLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/12/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-014	321	337	75	75	190	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/12/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-014	321	337	75	75	190	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/13/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-014	321	337				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HOLLY SPRINGS	City : HOLLY SPRINGS	Ident : HLI	State : MS
Type/Class : TACR	Frequency : M1158	Reference No.: 11075791	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 701415-015	287	325	51	25	180

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRIZZ HOTRD JERLE JTEEE OLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/12/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-015	287	325	51	25	180	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 07/12/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-015	287	325	51	25	180	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GEApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/13/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701415-015	287	325				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MARVELL	City : WEST HELENA	Ident : UJM	State : AR
Type/Class : DME	Frequency : M994	Reference No.: 11075888	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 960996-021	14	89	60	35	180

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRRIZ HOTRD JERLE PLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/19/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960996-021	14	89	60	35	180	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960996-021	14	89	60	35	180	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960996-021	14	89				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MARVELL	City : WEST HELENA	Ident : UJM	State : AR
Type/Class : DME	Frequency : M994	Reference No.: 11075889	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 960996-022	49	69	59	30	170

Requirement: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENEH GMBUD GOETZ GRRIZ HOTRD JERLE PLEMS PIEPI SELPH RNAV SIDS

Signature: MILLER JERRY	Routing Symbol: AJV-E2	Date: 07/19/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960996-022	49	69	59	30	170	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960996-022	49	69	59	30	170	APPROVE

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960996-022	49	69				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : GRAHAM	City : GRAHAM	Ident : GHM	State : TN
Type/Class : TACR	Frequency : M1014	Reference No.: 10051075	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 755483-006	269	22	64	100	180

Requirement: DME COVERAGE FOR LTOWN RNAV STAR

Signature: MILLER JERRY	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755483-006	269	22	64	100	180	APPROVE

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 05/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755483-006	269	22	64	100	180	APPROVE

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/24/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755483-006	269	22				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : NASHVILLE	City : NASHVILLE	Ident : BNA	State : TN
Type/Class : TACR	Frequency : M1175	Reference No.: 10051076	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698156-027	264	341	104	100	180

Requirement: DME COVERAGE FOR LTOWN RNAV STAR

Signature: MILLER JERRY	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698156-027	264	341	104	100	180	APPROVE

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARGrandfather Rule/Policy. TACAN Signal Strength(dBW) =

Signature: Cassella Charles	Routing Symbol:	Date: 05/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698156-027	264	341	104	100	180	APPROVE

Requirement/Remarks: DME COVERAGE FOR LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/24/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698156-027	264	341				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MEMPHIS	City : MEMPHIS	Ident : MEM	State : TN
Type/Class : TACR	Frequency : M1209	Reference No.: 10051053	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 772982-015	40	56	85	50	180

Requirement: DME COVERAGE ON LTOWN RNAV STAR

Signature: MILLER JERRY	Routing Symbol:	Date: 05/18/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 772982-015	40	56	85	50	180	APPROVE

Requirement/Remarks: DME COVERAGE ON LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 772982-015	40	56	85	50	180	APPROVE

Requirement/Remarks: DME COVERAGE ON LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 772982-015	40	56				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MEMPHIS	City : CHATTANOOGA	Ident : GQO	State : GA
Type/Class : TACR	Frequency : M1192	Reference No.: 10051054	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 110610-011	300	314	127	140	240

Requirement: DME COVERAGE ON LTOWN RNAV STAR

Signature: MILLER JERRY	Routing Symbol:	Date: 05/18/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 110610-011	300	314	127	140	240	APPROVE

Requirement/Remarks: DME COVERAGE ON LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 110610-011	300	314	127	140	240	APPROVE

Requirement/Remarks: DME COVERAGE ON LTOWN RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/19/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 110610-011	300	314				

Requirement/Remarks:

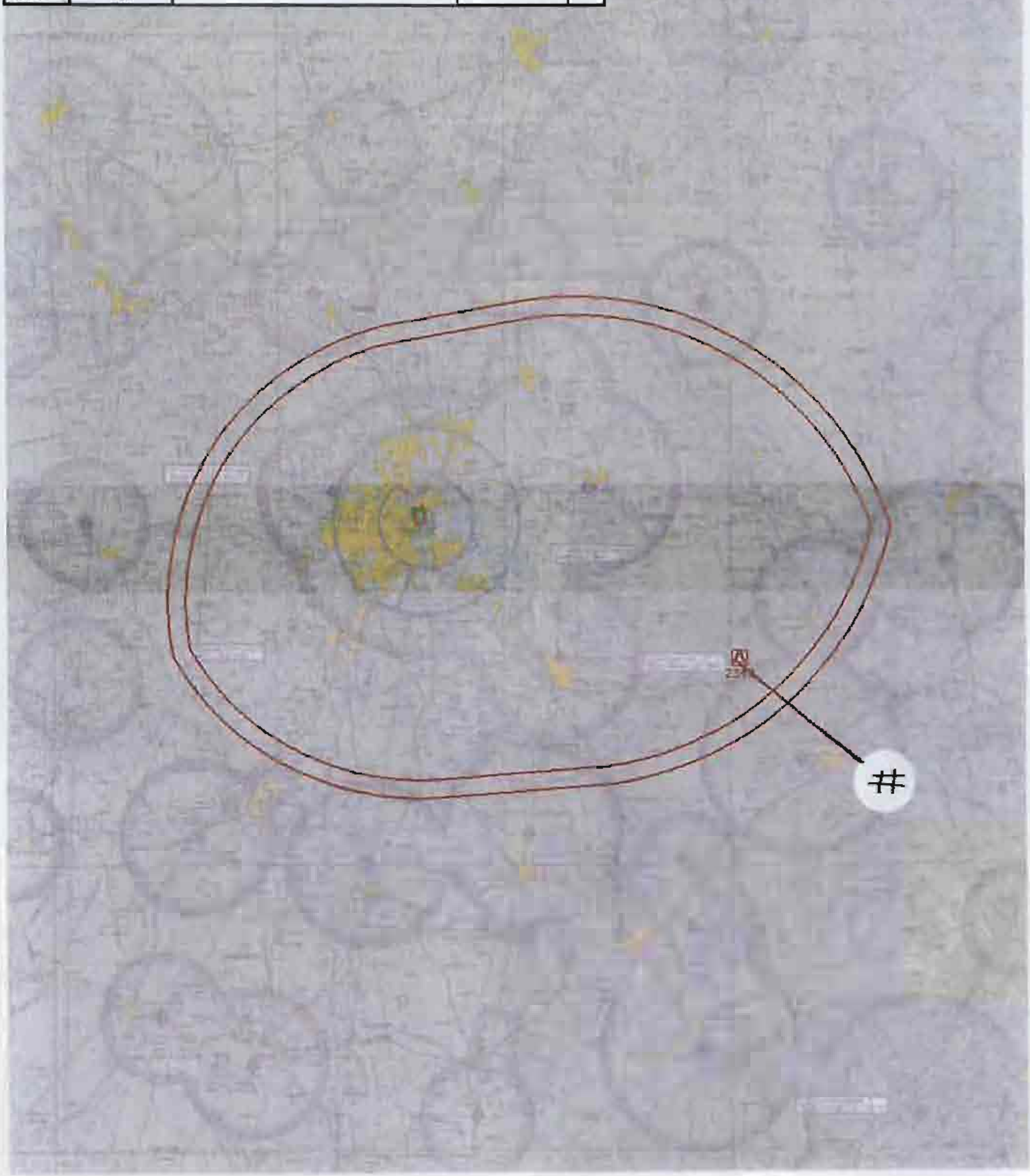
Signature:	Routing Symbol:	Date:

NM 14 28 42 56 70 84 98

FT 84000 168000 252000 336000 420000 504000 588000

fpostb | mem_ltownh (PROD) | 21 Mar 2012 08:03:13 | 1" = 83500.1 feet (MAP)

Airport ID:	KMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	# Nashville (BNA) VTAC	Tower (47-000753)	2349
State:	TN			
Scale:	1:500,000/50%			
Proc ID:	LTOWN			
Amdt #:	SIX			

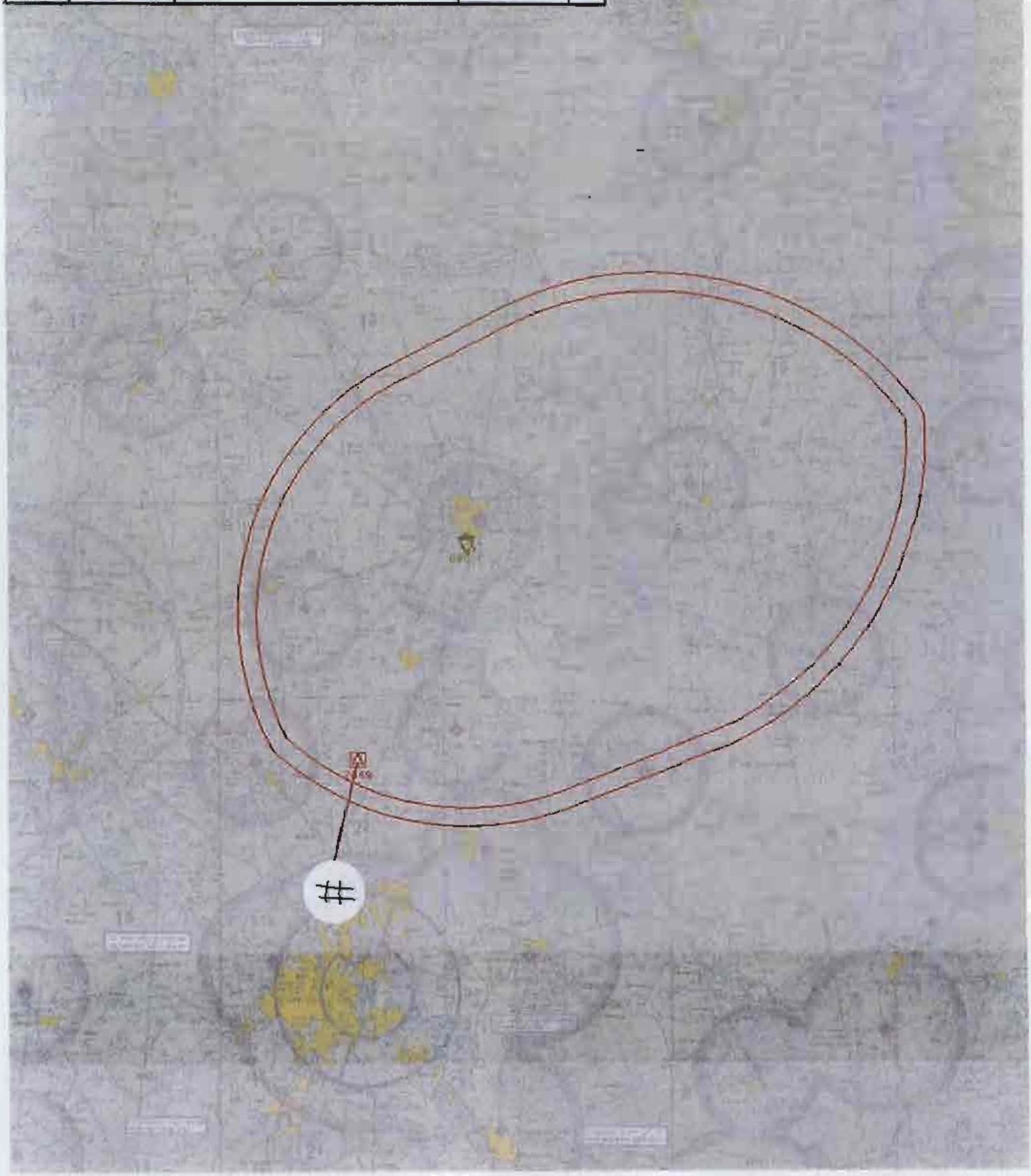


NM 14 28 42 56 70 84 98

FT 84000 168000 252000 336000 420000 504000 588000

fposbb | mem_ltownh (PROD) | 21 Mar 2012 07:35:27 | 1" = 83500.1 feet (MAP)

Airport ID:	KMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	# Bowling Green (BWG) VTAC	Tower (47-000967)	2049
State:	TN			
Scale:	1:500,000/50%			
Proc ID:	LTOWN			
Amdt #:	SIX			

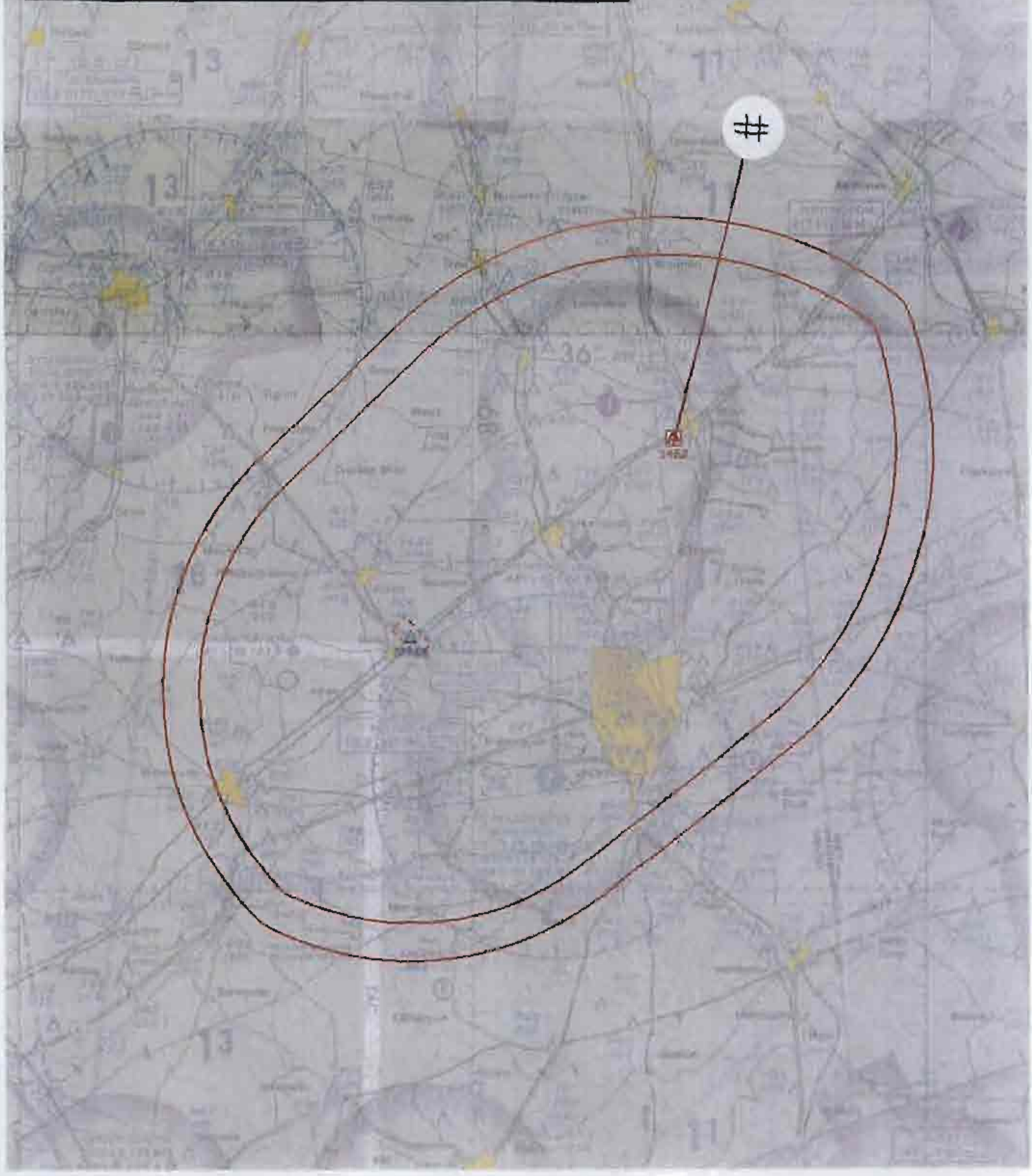


NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fposbb | mem_ltownh (PROD) | 21 Mar 2012 11:00:04 | 1" = 41666.7 feet (MAP)

Airport ID:	KMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	# SPKER	Tower (47-000702)	1482
State:	TN			
Scale:	1:500,000			
Proc ID:	LTOWN			
Amdt #:	SIX			



NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fposbb | mem_ltownh (PROD) | 21 Mar 2012 08:47:26 | 1" = 41666.7 feet (MAP)

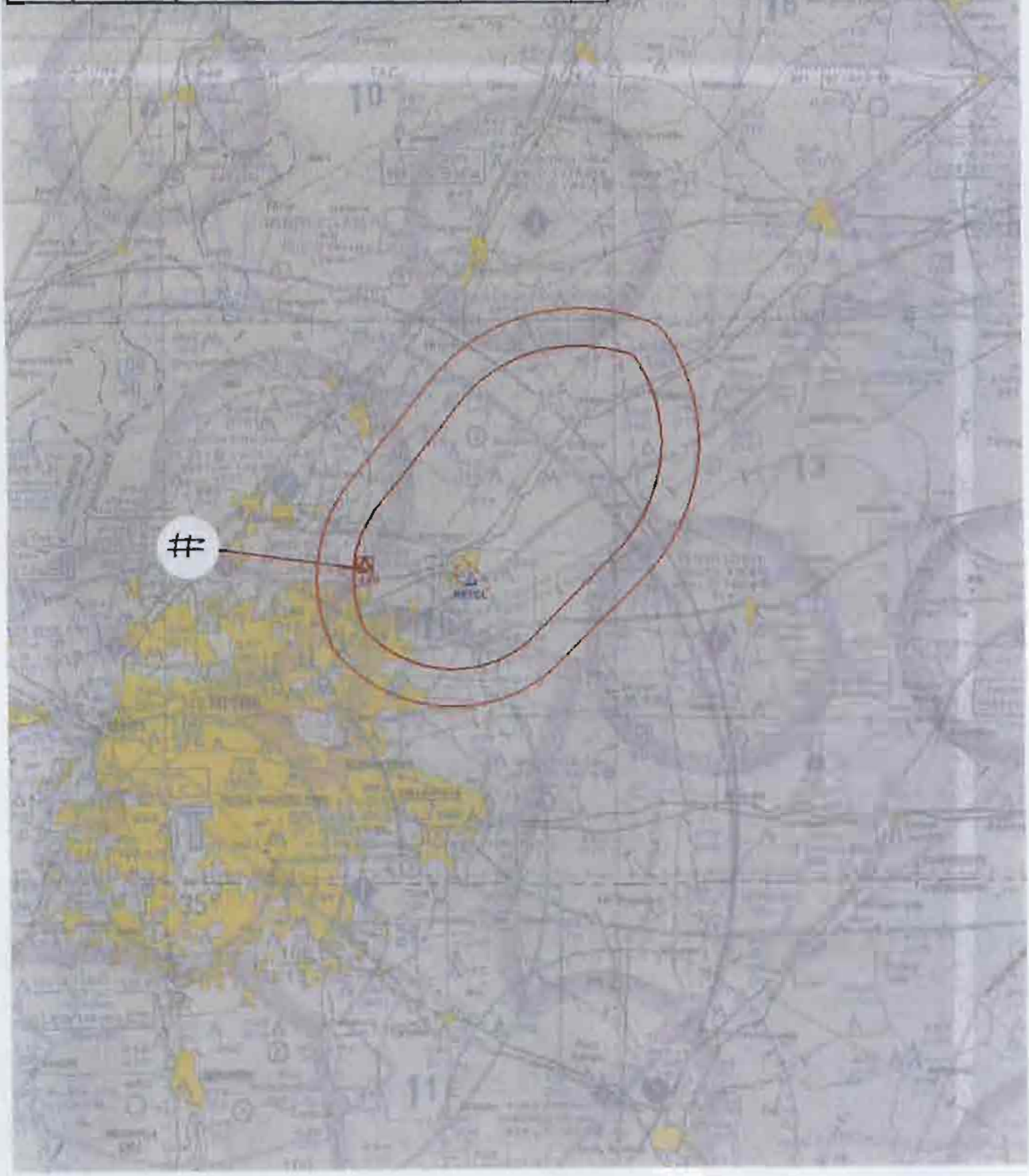
Airport ID:	XMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	# LTOWN	Tower (47-000098)	862
State:	TN			
Scale:	1:500,000			
Proc ID:	LTOWN			
Amdt #:	SX			

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpcsbb | mem_ltownh (PROD) | 21 Mar 2012 10:40:48 | 1" = 41666.7 feet (MAP)

Airport ID:	KMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	s MRCEL	Tower (47-001735)	1449
State:	TN			
Scale:	1:500,000			
Proc ID:	LTOWN			
Amdt #:	SIX			

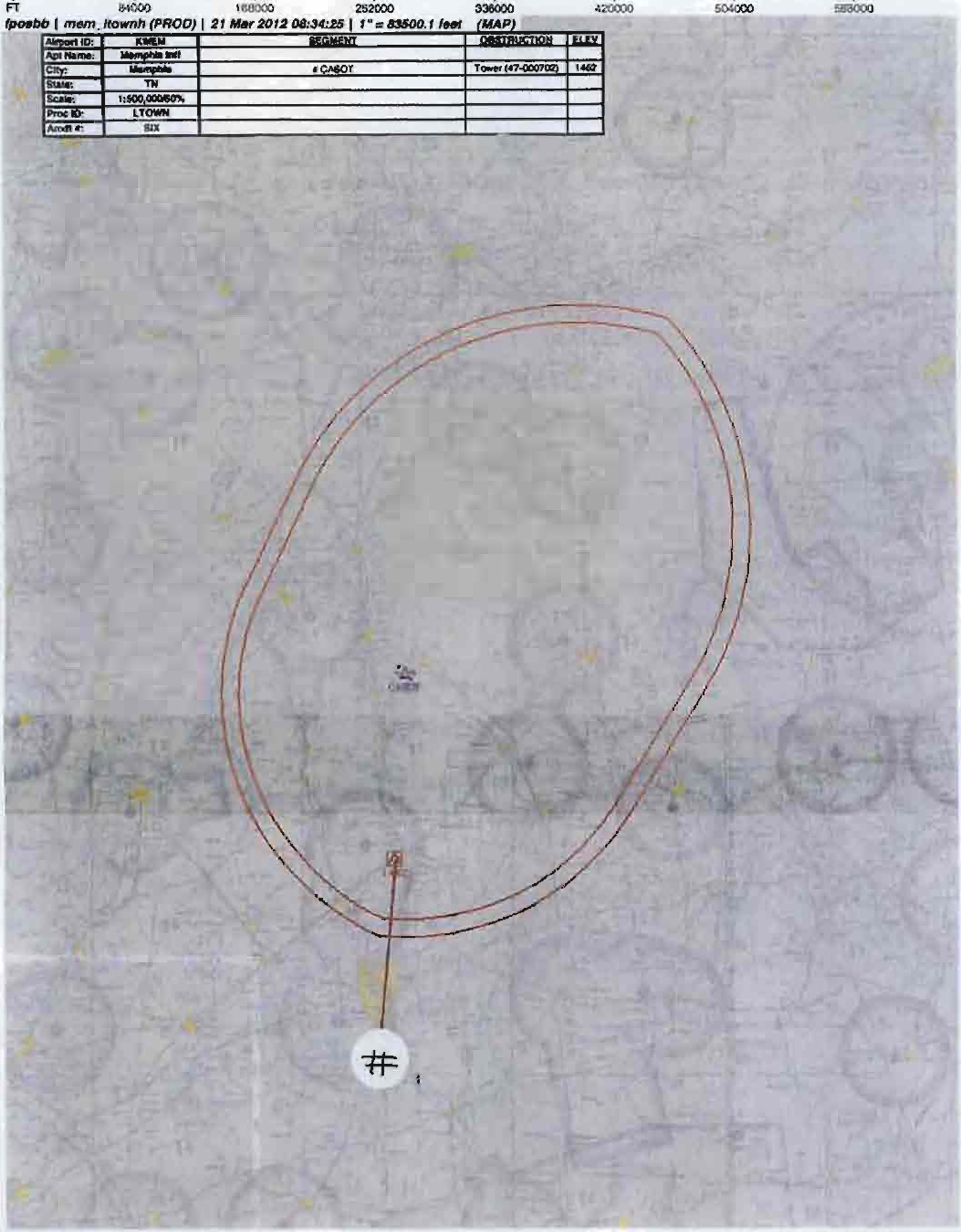


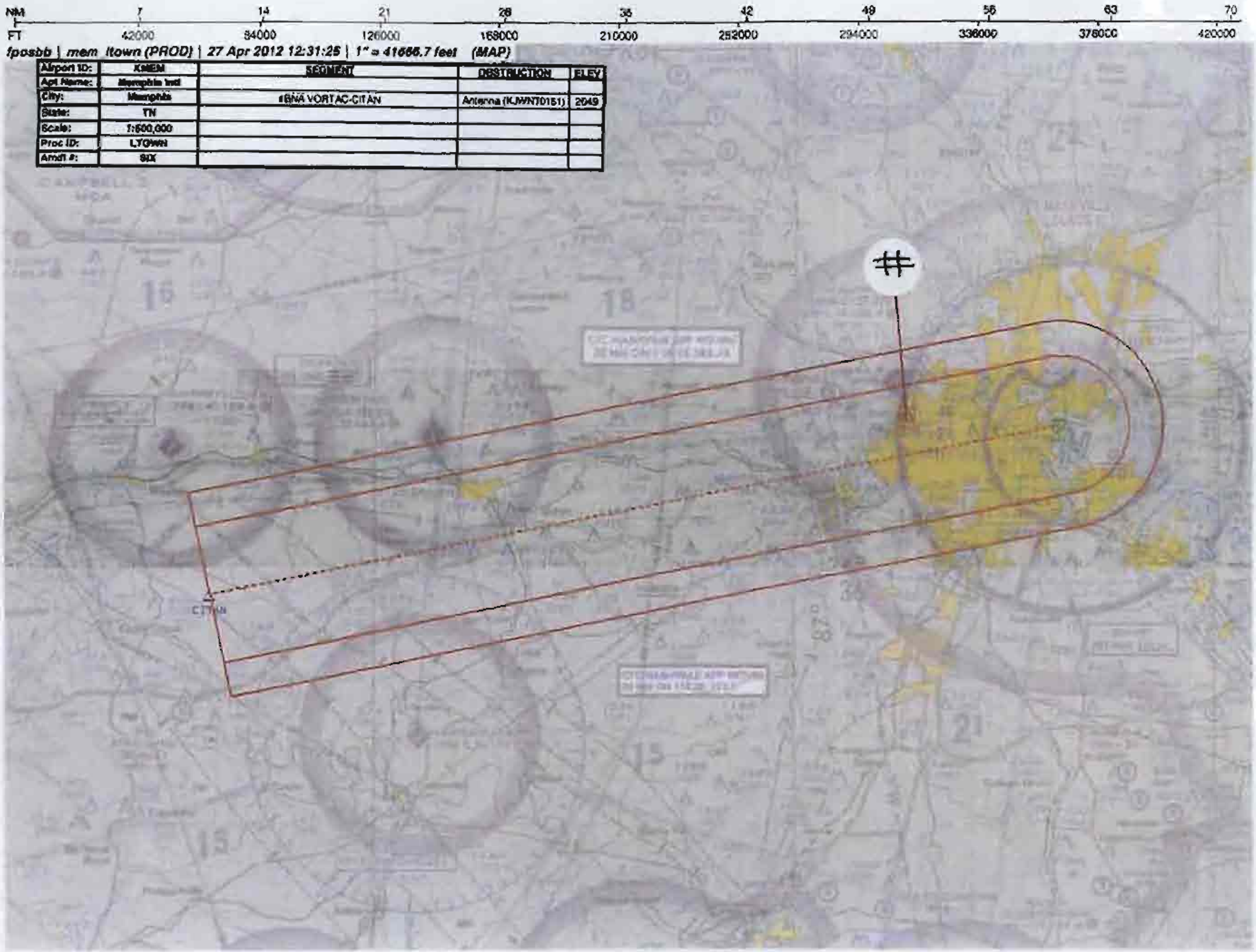
NM 14 28 42 56 70 84 98

FT 84000 168000 252000 336000 420000 504000 588000

fposbb | mem_ltownh (PROD) | 21 Mar 2012 08:34:25 | 1" = 83500.1 feet (MAP)

Airport ID:	KMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	4 CASOY	Tower (47-000702)	1462
State:	TN			
Scale:	1:500,000/50%			
Proc ID:	LTOWN			
Amdt #:	SIX			



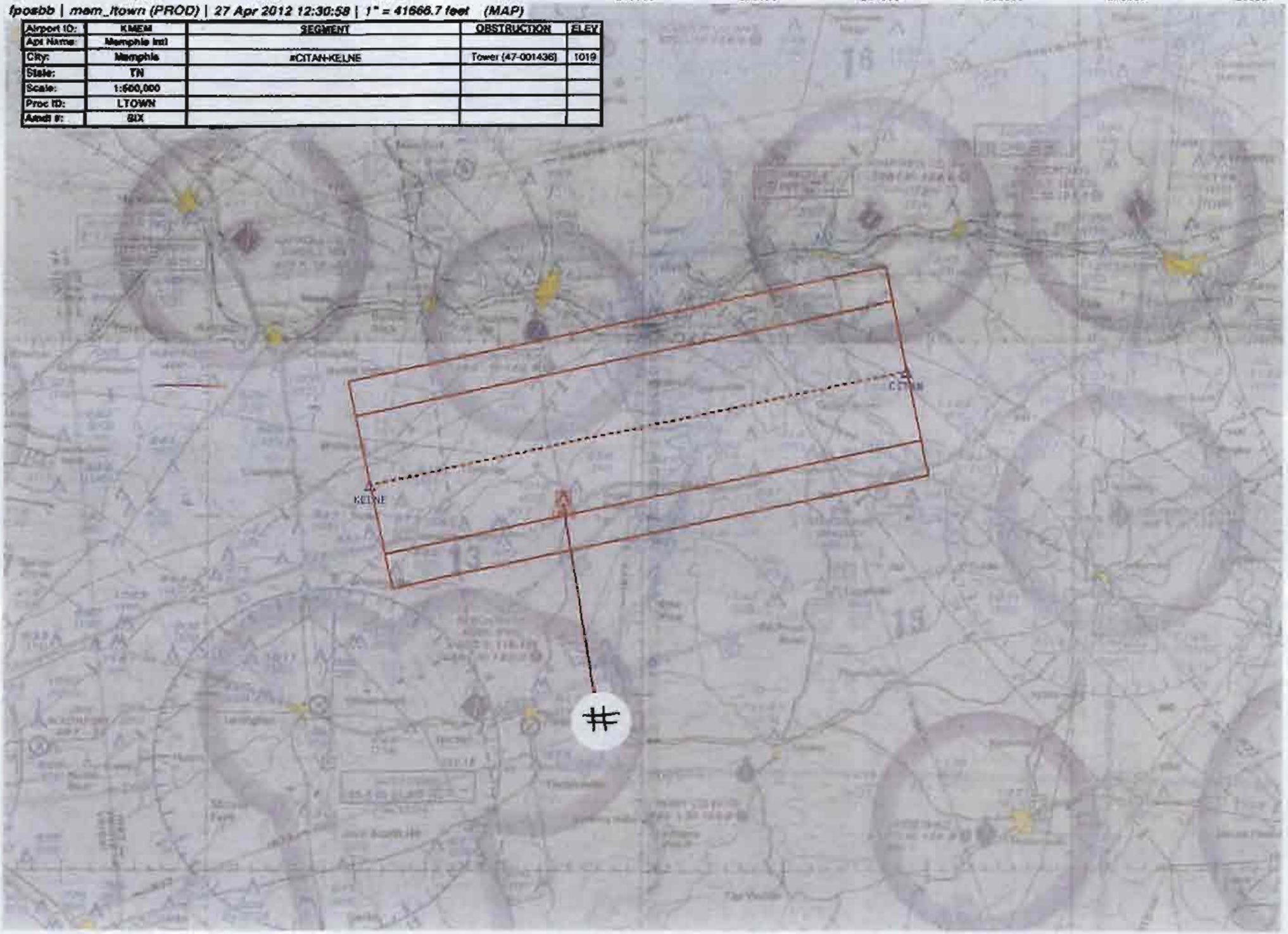

NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fposbb | mem ltown (PROD) | 27 Apr 2012 12:31:25 | 1" = 41666.7 feet (MAP)
Airport ID: KMEM
Apt Name: Memphis Intl
City: Memphis
State: TN
Scale: 1:500,000
Proc ID: LTOWN
Amdt #: 9X
SEGMENT
DESTRUCTION
ELEV
BNA VORTAC-CITAN
Antenna (KJWNT0151)
2049
CITAN

NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fposbb | mem_ltown (PROD) | 27 Apr 2012 12:30:58 | 1" = 41666.7 feet (MAP)

Airport ID:	KMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	#CITAN-KELNE	Tower (47-001436)	1019
State:	TN			
Scale:	1:600,000			
Proc ID:	LTOWN			
Amdt #:	8X			



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
NASHVILLE	BNA.LTOWN6	BNA VORTAC	CITAN	258.00/50.00	FL180			
		CITAN	KELNE	257.07/31.00	FL180			AT/ABOVE FL240
		KELNE	SPKER	256.92/37.75	10000			AT/BELOW FL230, AT/ABOVE14000
		SPKER	WLDER	225.53/15.00	6000			
		WLDER	LTOWN	225.40/4.00	6000			AT/BELOW 16000, AT/ABOVE 10000
BOWLING GREEN	BWG.LTOWN6	BWG VORTAC	HARET	240.37/75.00	FL180			
		HARET	AXXEL	239.56/30.00	FL180			AT/ABOVE FL240
		AXXEL	SPKER	239.25/41.18	10000			AT/BELOW FL230, AT/ABOVE 14000
		SPKER	WLDER	225.53/15.00	6000			
		WLDER	LTOWN	225.40/4.00	6000			AT/BELOW 16000, AT/ABOVE 10000
POCKET CITY	PXV.LTOWN6	PXV VORTAC	WISNA	204.96/21.35	FL180			
		WISNA	SUDOE	204.84/34.65	FL180			
		SUDOE	CASOT	204.65/54.00	FL180			AT/ABOVE FL240
		CASOT	SPKER	204.36/35.98	10000			AT/BELOW FL230, AT/ABOVE 14000
		SPKER	WLDER	225.53/15.00	6000			
		WLDER	LTOWN	225.40/4.00	6000			AT/BELOW 16000, AT/ABOVE 10000
SPKER	SPKER.LTOWN6	SPKER	WLDER	225.53/15.00	6000			
		WLDER	LTOWN	225.40/4.00	6000			AT/BELOW 16000, AT/ABOVE 10000
WLDER	WLDER.LTOWN6	WLDER	LTOWN	225.40/4.00	6000			AT/BELOW 16000, AT/ABOVE 10000

(2) Arrival Route Description:

LANDING RW18L, 18C, 18R: FROM OVER LTOWN ON 246.85 TRACK TO CROSS COPEN AT 10000 AT 230 KIAS (MEA 6000), THEN ON 246.85 TRACK, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 36L, 36C, 36R: FROM LTOWN ON 225.36 TRACK TO CROSS DAPLE AT 250 KIAS (MEA 6000), THEN ON 225.23 TRACK TO MRCEL (MEA 6000), THEN ON 225.19 TRACK TO CROSS DASAC AT OR BELOW 11000 AND AT OR ABOVE 9000 AT 210 KIAS (MEA 6000), THEN ON 225.11 TRACK TO CROSS CLARK AT OR ABOVE 8000 (MEA 6000), THEN ON 178.41 TRACK TO CROSS DIGLE AT OR ABOVE 6000 (MEA 3000), (CONTINUED BLOCK 16)

(3) Procedural Data Notes:

NOTE: RADAR REQUIRED; **NOTE:** TURBOJET AIRCRAFT ONLY; **NOTE:** DME/DME/IRU OR GPS REQUIRED; **NOTE:** RNAV 1; **CHART:** CROSS KELNE AT 290 KIAS; **CHART:** CROSS CASOT AT 290 KIAS; **CHART:** CROSS AXXEL AT 290 KIAS.

(4) Fixes and/or Holding Patterns:

CHART HOLDING PATTERNS: CASOT (HOLD NE, LT, 204.65 INBOUND, 15 NM LEGS); LTOWN (HOLD NE, RT, 225.40 INBOUND, 6 NM LEGS); MRCEL (HOLD NE, RT, 225.23 INBOUND, 6 NM LEGS); SPKER (HOLD NE, LT, 225.53 INBOUND, 12 NM LEGS); BNA VORTAC (HOLD E, LT, 258.00 INBOUND, 15 NM LEGS); BWG VORTAC (HOLD NE, LT, 240.37 INBOUND, 15 NM LEGS).

(5) Communications: MEMPHIS APP CON; MEMPHIS INTL ATIS.

CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

(12) Airports Served			
Airport Name	MEMPHIS INTL	**City/State**	MEMPHIS, TN
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	

(13) Lost Communications Procedure:

(14) Remarks:

(15) Additional Flight Data: REFERENCE MAG VAR KMEM 1E/2000.
DME/DME ASSESSMENT: SAT (RNP 2.0).

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

(16) Continuation:

(BLOCK 2) ARRIVAL ROUTE DESCRIPTION:

THEN ON 178.41 TRACK TO CROSS DINKE AT 3000 (MEA 3000), THEN ON 178.41 TRACK, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE;

(17) Changes:

1. DELETED NOTE: BWG TRANSITION: FOR NON-GPS EQUIPPED AIRCRAFT, JKS AND MEM MUST BE OPERATIONAL; DELETED NOTE: BNA TRANSITION: FOR NON-GPS EQUIPPED AIRCRAFT, JKS, MEM, AND HLI MUST BE OPERATIONAL; DELETED NOTE: PXV TRANSITION: FOR NON-GPS EQUIPPED AIRCRAFT, BNA, CNG, MEM, AND HLI MUST BE OPERATIONAL.
2. ADDED SPKER AND WLDER TRANSITIONS.
3. ADDED FIXES AXXEL, CASOT, CITAN, COPEN, DAPLE, DASAC, DIGLE, DINKE, HARET, KELNE, AND SUDOE; DELETED FIXES OLIVV AND NDREA.
4. ADDED HOLDING AT CASOT, NASHVILLE (BNA) VORTAC, AND BOWLING GREEN (BWG) VORTAC.
5. DELETED NOTE: NDREA LANDING NORTH: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE PRIOR TO NDREA.
6. DELETED NOTE: MRCEL LANDING SOUTH: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE PRIOR TO MRCEL.
7. CHANGED ARRIVAL ROUTE DESCRIPTION: FROM OVER WLDER VIA 225.40/4.00 NM TRACK TO LTOWN, THEN VIA 225.36/21.00 NM TRACK TO MRCEL, THEN VIA 225.19/14.00 NM TRACK TO CLARK, THEN VIA 172.70/9.77 NM TRACK TO OLIVV, THEN VIA 177.58/25.18 NM TRACK TO NDREA, THEN VIA 177.58/5.00 NM HEADING. EXPECT RADAR VECTORS (MEA 6000).
8. CHANGED MEA BETWEEN PXV VTAC AND WISNA FROM FL220 TO FL180; CHANGED MEA FOLLOWING BNA VTAC FROM 10000 TO FL180; CHANGED MEA FOLLOWING CLARK FROM 6000 TO 3000.
9. ADDED NOTE: EXPECT TO CROSS COPEN AT 10000 AT 230 KIAS.

(18) Reasons for Changes:

1. CRITICAL DME REMOVAL PROGRAM.

2-9. ATC REQUEST.

		Name *(Typed and Signed)*, Title and Organization	DATE
Developed By		JOHN HENSLEY, SUPPORT SPECIALIST, ZME	03/19/2012
Approved	**NFPO**	DARRYEL ADAMS, MANAGER, AJV-352	
	Reg. ATD		

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

(19) Graphic Depiction:

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

1. Bearings, headings, courses and radials are true and 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) 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									
BNA VORTAC	360813.06N/ 0864105.18W	Y		IF					BNA.LTOWN6
CITAN	355824.53N/ 0874133.37W	Y	FB	TF	259.00	50.00			
KELNE	355153.58N/ 0881852.37W	Y	FB	TF	258.07	31.00	AT/ABOVE FL240	AT 290K	
SPKER	354350.25N/ 0890412.82W	Y	FB	TF	257.92	37.75	AT/BELOW FL230 AT/ABOVE 14000		
WLDER	353329.38N/ 0891733.33W	Y	FB	TF	226.53	15.00			
LTOWN	353043.57N/ 0892106.22W	Y	FB	TF	226.40	4.00	AT/BELOW 16000 AT/ABOVE 10000		
EN ROUTE TRANSITION									
BWG VORTAC	365543.47N/ 0862636.36W	Y		IF					BWG.LTOWN6
HARET	361916.57N/ 0874804.31W	Y	FB	TF	241.37	75.00			
AXXEL	360426.33N/ 0882018.08W	Y	FB	TF	240.56	30.00	AT/ABOVE FL240	AT 290K	
SPKER	354350.25N/ 0890412.82W	Y	FB	TF	240.25	41.18	AT/BELOW FL230 AT/ABOVE 14000		
WLDER	353329.38N/ 0891733.33W	Y	FB	TF	226.53	15.00			
LTOWN	353043.57N/ 0892106.22W	Y	FB	TF	226.40	4.00	AT/BELOW 16000 AT/ABOVE 10000		
EN ROUTE TRANSITION									
PXV VORTAC	375541.95N/ 0874544.56W	Y		IF					PXV.LTOWN6

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

1. Bearings, headings, courses and radials are true and 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

(10) FIX/NA VAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
WISNA	373628.29N/ 0875730.25W	Y	FB	TF	205.96	21.35			
SUDOE	370513.36N/ 0881622.76W	Y	FB	TF	205.84	34.65			
CASOT	361625.19N/ 0884517.17W	Y	FB	TF	205.65	54.00	AT/ABOVE FL240	AT 290K	
SPKER	354350.25N/ 0890412.82W	Y	FB	TF	205.36	35.98	AT/BELOW FL 230 AT/ABOVE 14000		
WLDER	353329.38N/ 0891733.33W	Y	FB	TF	226.53	15.00			
LTOWN	353043.57N/ 0892106.22W	Y	FB	TF	226.40	4.00	AT/BELOW 16000 AT/ABOVE 10000		
EN ROUTE TRANSITION									
SPKER	354350.25/ 0890412.82W	Y		IF			AT/BELOW FL230 AT/ABOVE 14000		SPKER.LTOWN6
WLDER	353329.38N/ 0891733.33W	Y	FB	TF	226.53	15.00			
LTOWN	353043.57N/ 0892106.22W	Y	FB	TF	226.40	4.00	AT/BELOW 16000 AT/ABOVE 10000		
EN ROUTE TRANSITION									
WLDER	353329.38N/ 0891733.33W	Y		IF					WLDER.LTOWN6
LTOWN	353043.57N/ 0892106.22W	Y	FB	TF	226.40	4.00	AT/BELOW 16000 AT/ABOVE 10000		
RUNWAY TRANSITION									
LTOWN	353043.57N/ 0892106.22W	Y		IF					

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

1. Bearings, headings, courses and radials are true and 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

(10) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
COPEN	352958.24N/ 0892322.34W	Y	FO	TF	247.85	2.00	AT 10000	AT 230K	
RWY 18L, 18C, 18R				FM	247.85				
RUNWAY TRANSITION									
LTOWN	353043.57N/ 0892106.22W	Y		IF					
DAPLE	351936.17N/ 0893519.27W	Y	FB	TF	226.36	16.07		AT 250K	
MRCEL	351611.30N/ 0893939.91W	Y	FB	TF	226.23	4.93			
DASAC	351003.82N/ 0894726.04W	Y	FB	TF	226.19	8.83	AT/BELOW 11000 AT/ABOVE 9000	AT 210K	
CLARK	350628.20N/ 0895158.69W	Y	FB	TF	226.11	5.17	AT/ABOVE 8000		
DIGLE	350127.73N/ 0895154.90W	Y	FB	TF	179.41	5.00	AT/ABOVE 6000		
DINKE	344626.31N/ 0895143.57W	Y	FO	TF	179.41	15.00	AT 3000		
RWY 36L, 36C, 36R				FM	179.41				

(10) Arrival Name	(10) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

FAA FORM 7100-3 (9/02)

ARINC PACKET - 424-18 - STAR

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BNA   K7011410VTH  N36081306W086410518    N36081306W086410518W0020005662     NARNASHVILLE
        SUSAD        BWG   K5011790VTHW N36554347W086263636    N36554347W086263636E0020005652     NARBOWLING GREEN
        SUSAD        MEM   K7011750VTHW N35005442W089585955    N35005442W089585955E0010003602     NARMEMPHIS
        SUSAD        PXV   K5011330VTHA N37554195W087454456    N37554195W087454456E0030003842     NARPOCKET CITY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   AXXEL K70    C     N36042633W088201808                      W0022     NAR           AXXEL
        SUSAEAENRT   CASOT K70    C     N36162519W088451717                      W0019     NAR           CASOT
        SUSAEAENRT   CITAN K70    W     N35582453W087413337                      W0026     NAR           CITAN
        SUSAEAENRT   CLARK K70    C     N35062820W089515869                      W0009     NAR           CLARK
        SUSAEAENRT   COPEN K70    W     N35295824W089232234                      W0013     NAR           COPEN
        SUSAEAENRT   DAPLE K70    C     N35193617W089351927                      W0012     NAR           DAPLE
        SUSAEAENRT   DASAC K70    C     N35100382W089472604                      W0010     NAR           DASAC
        SUSAEAENRT   DIGLE K70    W     N35012773W089515490                      W0009     NAR           DIGLE
        SUSAEAENRT   DINKE K70    W     N34462631W089514357                      W0009     NAR           DINKE
        SUSAEAENRT   HARET K70    W     N36191657W087480431                      W0026     NAR           HARET
        SUSAEAENRT   KELNE K70    C     N35515358W088185237                      W0022     NAR           KELNE
        SUSAEAENRT   LTOWN K70    C     N35304357W089210622                      W0014     NAR           LTOWN
        SUSAEAENRT   MRCEL K70    C     N35161130W089393991                      W0011     NAR           MRCEL
        SUSAEAENRT   SPKER K70    C   B N35435025W089041282                      W0016     NAR           SPKER
        SUSAEAENRT   SUDOE K50    W     N37051336W088162276                      W0024     NAR           SUDOE
        SUSAEAENRT   WISNA K50    C     N37362829W087573025                      W0027     NAR           WISNA
        SUSAEAENRT   WLDER K70    C   B N35332938W089173333                      W0014     NAR           WLDER

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMEMK7AMEM     0     111YHN35023270W089583600E001000341         1800018000C    MNAR    MEMPHIS INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMEMK7ELTOWN64BNA   010BNA  K7D 0V  H    IF                                          18000
        SUSAP KMEMK7ELTOWN64BNA   020CITANK7EA0E    010TF                    25800500
        SUSAP KMEMK7ELTOWN64BNA   030KELNEK7EA0E    010TF                    25710310    + FL240          290
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

```
SUSAP KMEMK7ELTOWN64BNA   040SPKERK7EA0E  H 010TF                    25690378    B FL23014000
SUSAP KMEMK7ELTOWN64BNA   050WLDERK7EA0E    010TF                    22550150
SUSAP KMEMK7ELTOWN64BNA   060LTOWNK7EA0EE H 010TF                    22540040    B 1600010000
SUSAP KMEMK7ELTOWN64BWG   010BWG  K5D 0V  H    IF                                            18000
SUSAP KMEMK7ELTOWN64BWG   020HARETK7EA0E    010TF                    24040750
SUSAP KMEMK7ELTOWN64BWG   030AXXELK7EA0E    010TF                    23960300    + FL240          290
SUSAP KMEMK7ELTOWN64BWG   040SPKERK7EA0E  H 010TF                    23930412    B FL23014000
SUSAP KMEMK7ELTOWN64BWG   050WLDERK7EA0E    010TF                    22550150
SUSAP KMEMK7ELTOWN64BWG   060LTOWNK7EA0EE H 010TF                    22540040    B 1600010000
SUSAP KMEMK7ELTOWN64PXV   010PXV  K5D 0V      IF                                            18000
SUSAP KMEMK7ELTOWN64PXV   020WISNAK5EA0E    010TF                    20500214
SUSAP KMEMK7ELTOWN64PXV   030SUDOEK5EA0E    010TF                    20480347
SUSAP KMEMK7ELTOWN64PXV   040CASOTK7EA0E  H 010TF                    20470540    + FL240          290
SUSAP KMEMK7ELTOWN64PXV   050SPKERK7EA0E  H 010TF                    20440360    B FL23014000
SUSAP KMEMK7ELTOWN64PXV   060WLDERK7EA0E    010TF                    22550150
SUSAP KMEMK7ELTOWN64PXV   070LTOWNK7EA0EE H 010TF                    22540040    B 1600010000
SUSAP KMEMK7ELTOWN64SPKER 010SPKERK7EA0E  H    IF                                            B FL2301400018000
SUSAP KMEMK7ELTOWN64SPKER 020WLDERK7EA0E    010TF                    22550150
SUSAP KMEMK7ELTOWN64SPKER 030LTOWNK7EA0EE H 010TF                    22540040    B 1600010000
SUSAP KMEMK7ELTOWN64WLDER 010WLDERK7EA0E      IF                                            18000
SUSAP KMEMK7ELTOWN64WLDER 020LTOWNK7EA0EE H 010TF                    22540040    B 1600010000
SUSAP KMEMK7ELTOWN66RW18B 010LTOWNK7EA0E  H    IF                                            18000
SUSAP KMEMK7ELTOWN66RW18B 020COPENK7EA0EY   010TF                    24690020      10000          230
SUSAP KMEMK7ELTOWN66RW18B 030COPENK7EA0EE      FM MEM K7      044004112469    D     10000          230
SUSAP KMEMK7ELTOWN66RW36B 010LTOWNK7EA0E  H    IF                                            18000
SUSAP KMEMK7ELTOWN66RW36B 020DAPLEK7EA0E    010TF                    22540161                     250
SUSAP KMEMK7ELTOWN66RW36B 030MRCELK7EA0E  H 010TF                    22520049
SUSAP KMEMK7ELTOWN66RW36B 040DASACK7EA0E    010TF                    22520088    B 1100009000     210
SUSAP KMEMK7ELTOWN66RW36B 050CLARKK7EA0E    010TF                    22510052    + 08000
SUSAP KMEMK7ELTOWN66RW36B 060DIGLEK7EA0E    010TF                    17840050    + 06000
SUSAP KMEMK7ELTOWN66RW36B 070DINKEK7EA0EY   010TF                    17840150      03000
SUSAP KMEMK7ELTOWN66RW36B 080DINKEK7EA0EE      FM MEM K7      156501561784    D     03000
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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMEMK7GRW18C   0111201780 N35031654W089583421+0600    +0055100271000054150IISDU1
        SUSAP KMEMK7GRW18L   0090001780 N35025574W089582263+0600    +0057200278000060150IIEXS1
        SUSAP KMEMK7GRW18R   0093201780 N35025816W089591479+0300    +0060100288000052150IIOOI1
        SUSAP KMEMK7GRW36C   0111203580 N35012658W089583190-0600    +0076500341000060150IITSE3
        SUSAP KMEMK7GRW36L   0093203580 N35012598W089591281-0300    +0070300321000059150IIOHN3
        SUSAP KMEMK7GRW36R   0090003580 N35012674W089582075-0600    +0074600335000058150IIMYO3
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

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
	BNA	BNA	010		IF		FB					
	BNA	CITAN	020		TF		FB	1.0	258.0()	050.0		
	BNA	KELNE	030		TF		FB	1.0	257.1()	031.0	AA FL240	AT 290
	BNA	SPKER	040		TF		FB	1.0	256.9()	037.8	BT FL23014000	
	BNA	WLDER	050		TF		FB	1.0	225.5()	015.0		
	BNA	LTOWN	060		TF		FB	1.0	225.4()	004.0	BT 1600010000	
	BWG	BWG	010		IF		FB					
	BWG	HARET	020		TF		FB	1.0	240.4()	075.0		
	BWG	AXXEL	030		TF		FB	1.0	239.6()	030.0	AA FL240	AT 290
	BWG	SPKER	040		TF		FB	1.0	239.3()	041.2	BT FL23014000	
	BWG	WLDER	050		TF		FB	1.0	225.5()	015.0		
	BWG	LTOWN	060		TF		FB	1.0	225.4()	004.0	BT 1600010000	
	PXV	PXV	010		IF		FB					
	PXV	WISNA	020		TF		FB	1.0	205.0()	021.4		
	PXV	SUDOE	030		TF		FB	1.0	204.8()	034.7		
	PXV	CASOT	040		TF		FB	1.0	204.7()	054.0	AA FL240	AT 290
	PXV	SPKER	050		TF		FB	1.0	204.4()	036.0	BT FL23014000	
	PXV	WLDER	060		TF		FB	1.0	225.5()	015.0		
	PXV	LTOWN	070		TF		FB	1.0	225.4()	004.0	BT 1600010000	
	SPKER	SPKER	010		IF		FB				BT FL23014000	
	SPKER	WLDER	020		TF		FB	1.0	225.5()	015.0		
	SPKER	LTOWN	030		TF		FB	1.0	225.4()	004.0	BT 1600010000	
	WLDER	WLDER	010		IF		FB					
	WLDER	LTOWN	020		TF		FB	1.0	225.4()	004.0	BT 1600010000	
	RW18B	LTOWN	010		IF		FB					
	RW18B	COPEN	020		TF		FO	1.0	246.9()	002.0	AT 10000	AT 230
	RW18B	COPEN	030		FM		FB		246.9()		AT 10000	AT 230
	RW36B	LTOWN	010		IF		FB					
	RW36B	DAPLE	020		TF		FB	1.0	225.4()	016.1		AT 250
	RW36B	MRCEL	030		TF		FB	1.0	225.2()	004.9		
	RW36B	DASAC	040		TF		FB	1.0	225.2()	008.8	BT 1100009000	AT 210
	RW36B	CLARK	050		TF		FB	1.0	225.1()	005.2	AA 08000	
	RW36B	DIGLE	060		TF		FB	1.0	178.4()	005.0	AA 06000	
	RW36B	DINKE	070		TF		FO	1.0	178.4()	015.0	AT 03000	
	RW36B	DINKE	080		FM		FB		178.4()		AT 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

FAA Form 7100-3 (9/02)

BNA	N360813.06	W0864105.18	N3608.218	W08641.086
BWG	N365543.47	W0862636.36	N3655.725	W08626.606
MEM	N350054.42	W0895859.55	N3500.907	W08958.993
PXV	N375541.95	W0874544.56	N3755.699	W08745.743
AXXEL	N360426.33	W0882018.08	N3604.439	W08820.301
CASOT	N361625.19	W0884517.17	N3616.420	W08845.286
CITAN	N355824.53	W0874133.37	N3558.409	W08741.556
CLARK	N350628.20	W0895158.69	N3506.470	W08951.978
COPEN	N352958.24	W0892322.34	N3529.971	W08923.372
DAPLE	N351936.17	W0893519.27	N3519.603	W08935.321
DASAC	N351003.82	W0894726.04	N3510.064	W08947.434
DIGLE	N350127.73	W0895154.90	N3501.462	W08951.915
DINKE	N344626.31	W0895143.57	N3446.439	W08951.726
HARET	N361916.57	W0874804.31	N3619.276	W08748.072
KELNE	N355153.58	W0881852.37	N3551.893	W08818.873
LTOWN	N353043.57	W0892106.22	N3530.726	W08921.104
MRCEL	N351611.30	W0893939.91	N3516.188	W08939.665
SPKER	N354350.25	W0890412.82	N3543.838	W08904.214
SUDOE	N370513.36	W0881622.76	N3705.223	W08816.379
WISNA	N373628.29	W0875730.25	N3736.472	W08757.504
WLDER	N353329.38	W0891733.33	N3533.490	W08917.556
RW18C	N350316.54	W0895834.21	N3503.276	W08958.570
RW18L	N350255.74	W0895822.63	N3502.929	W08958.377
RW18R	N350258.16	W0895914.79	N3502.969	W08959.247
RW36C	N350126.58	W0895831.90	N3501.443	W08958.532
RW36L	N350125.98	W0895912.81	N3501.433	W08959.214
RW36R	N350126.74	W0895820.75	N3501.446	W08958.346

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW18C	00271	54
RW18L	00278	60
RW18R	00288	52
RW36C	00341	60
RW36L	00321	59
RW36R	00335	58

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
LTOWN RNAV	SIX	LTOWN.LTOWN6	FIVE	10 MAR 2011	

RADIO FIX AND HOLDING DATA RECORD

NAME: AXXEL **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360426.33N/0882018.08W **TYPE:** WP. DME

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

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	BOWLING GREEN	BWG	VORTAC	H	239.37	241.37	105.00	105.00		18000	45000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)
STAR	WLDER	1		KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: BOWLING GREEN VORTAC **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 365543.47N/0862636.36W **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	BOWLING GREEN	BWG	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	SW	BWG	VORTAC	204.00	024.00	R	1		2300	10000	4	9
2	SW	BWG	VORTAC	206.00	026.00	R	1		2300	10000	4	9
3	NE	BWG	VORTAC	059.37	239.37	L		15	18000	45000	28	29
4	NE		WP	060.37	240.37	L		15	18000	45000	28	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	TOWER (21-000307)	370349.22N/0862606.70W	1304	5D
1	200	AAO	364715.00N/0862618.00W	926	4E
2	200	AAO	364715.00N/0862618.00W	926	4E

REASON FOR NONSTANDARD HOLDING:
PAT 4 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.
PAT 3 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HUNTSVILLE			KHSV	HUNTSVILLE	AL (US)
DP	DAWNN			KEYE	INDIANAPOLIS	IN (US)
DP	DAWNN			KHFY	INDIANAPOLIS	IN (US)
DP	DAWNN			KIND	INDIANAPOLIS	IN (US)
DP	DAWNN			KMQJ	INDIANAPOLIS	IN (US)
DP	DAWNN			KTYQ	INDIANAPOLIS	IN (US)
DP	DAWNN			KUMP	INDIANAPOLIS	IN (US)
DP	DAWNN			KGEZ	SHELBYVILLE	IN (US)
DP	BLUEGRASS			KCVG	COVINGTON	KY (US)
DP	CHCLL (RNAV)			KCVG	COVINGTON	KY (US)
DP	MYSTIC (RNAV)			KSDF	LOUISVILLE	KY (US)
DP	CHATTANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	TITAN (OBSTACLE)			KBNA	NASHVILLE	TN (US)
EN ROUTE	J6					(US)
EN ROUTE	V243					(US)
EN ROUTE	V49					(US)
EN ROUTE	V5					(US)
EN ROUTE	V52					(US)
EN ROUTE	V94					(US)
IAP	ILS RWY 3			KBWG	BOWLING GREEN	KY (US)
IAP	NDB RWY 3			KBWG	BOWLING GREEN	KY (US)
IAP	VOR-A			KBWG	BOWLING GREEN	KY (US)
IAP	VOR/DME RWY 21		2	KBWG	BOWLING GREEN	KY (US)
IAP	SDF RWY 7			KGLW	GLASGOW	KY (US)
IAP	VOR/DME RWY 7			KGLW	GLASGOW	KY (US)
IAP	RNAV (GPS) RWY 26			KHVC	HOPKINSVILLE	KY (US)
IAP	VOR/DME OR GPS RWY 24			K4M7	RUSSELLVILLE	KY (US)
IAP	RNAV (GPS) RWY 17			KM33	GALLATIN	TN (US)
IAP	RNAV (GPS) RWY 35			KM33	GALLATIN	TN (US)
IAP	ILS OR LOC RWY 20L			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2R			KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2R (CAT II)			KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2R (CAT III)			KBNA	NASHVILLE	TN (US)
IAP	VOR/DME RWY 13			KBNA	NASHVILLE	TN (US)
IAP	VOR/DME RWY 19			K1M5	PORTLAND	TN (US)
IAP	LOC RWY 4		1	KM91	SPRINGFIELD	TN (US)
STAR	ERLIN (RNAV)			KATL	ATLANTA	GA (US)
STAR	ROME			KATL	ATLANTA	GA (US)
STAR	RPTOR (RNAV)			KATL	ATLANTA	GA (US)
STAR	DARBY			KLOU	LOUISVILLE	KY (US)
STAR	LTOWN (RNAV)		4	KMEM	MEMPHIS	TN (US)

STAR	WLDER	3	KMEM	MEMPHIS	TN (US)
STAR	GUITR		KMBT	MURFREESBORO	TN (US)
STAR	HEHAW		KMBT	MURFREESBORO	TN (US)
STAR	GUITR		KBNA	NASHVILLE	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)
STAR	GUITR		KJWN	NASHVILLE	TN (US)
STAR	HEHAW		KJWN	NASHVILLE	TN (US)
STAR	GUITR		KMQY	SMYRNA	TN (US)
STAR	HEHAW		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. ADDED HOLDING PAT 3 AND PAT 4 TO SUPPORT MEM STARS.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CASOT **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 361625.19N/0884517.17W **TYPE:** WP, DME

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

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	POCKET CITY	PXV	VORTAC	H	202.96	205.96	110.00	110.00		22000	45000

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	NE	PXV	VORTAC	202.96	202.96	L		15	22000	45000	28	31
2	NE		WP	024.65	204.65	L		15	18000	45000	28	30

REASON FOR NONSTANDARD HOLDING:
PAT 2 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.
PAT 1 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.

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	LTOWN (RNAV)		2	KMEM	MEMPHIS	TN (US)
STAR	WLDER	1	1	KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: CITAN **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 355824.53N/0874133.37W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/16/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CLARK **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 350628.20N/0895158.69W **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	MEMPHIS	MEM	VORTAC	H	045.00	046.00	8.00	8.00		4000	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)
STAR	WLDER	1		KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. DELETED INT FROM FIX TYPE.
2. DELETED FAC 2 (HLI).
3. INCREASED FAC 1 MAA FROM 10000 TO 17500.
4. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/15/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: COPEN **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 352958.24N/0892322.34W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/16/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DAPLE **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 351936.17N/0893519.27W **TYPE:** WP, DME

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

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	MEMPHIS	MEM	VORTAC	H	045.00	046.00	26.93	26.93		4000	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)
STAR	WLDER	1		KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/15/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DASAC **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 351003.82N/0894726.04W **TYPE:** WP. DME

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

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	MEMPHIS	MEM	VORTAC	H	045.00	046.00	13.17	13.17		4000	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)
STAR	WLDER	1		KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/15/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DIGLE **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 350127.73N/0895154.90W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/16/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DINKE **STATE:** MS **COUNTRY:** US

LATITUDE/LONGITUDE: 344626.31N/0895143.57W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/16/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HARET **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 361916.57N/0874804.31W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/05/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: KELNE **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 355153.58N/0881852.37W **TYPE:** WP, DME

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

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	NASHVILLE	BNA	VORTAC	H	260.87	258.87	81.00	81.00		18000	45000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)
STAR	WLDER	1		KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LTOWN **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 353043.57N/0892106.22W **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	MEMPHIS	MEM	VORTAC	H	045.00	046.00	43.00	43.00		5000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MEM	VORTAC	R-045	43	4000	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	MEM	VORTAC	045.00	225.00	R		6	5000	14000	7	12
2	NE		WP	045.40	225.40	R		6	6000	16000	7	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-000098)	353450.32N/0891732.32W	852	1A
2	230	TOWER (47-000098)	353450.32N/0891732.32W	852	1A

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	LTOWN (RNAV)		2	KMEM	MEMPHIS	TN (US)
STAR	WLDER	1	1	KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. DELETED INT FROM FIX TYPE.
2. DELETED FAC 2 (DYR).
3. AMENDED PAT 1 AND PAT 2 FROM LEFT TURNS TO RIGHT TURNS.
4. AMENDED PAT 1 HOLDING FROM TIME TO 6 NM LEG.
5. AMENDED PAT 2 MAX HOLDING ALTITUDE FROM 14000 TO 16000.
6. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MRCEL **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 351611.30N/0893939.91W **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	MEMPHIS	MEM	VORTAC	H	045.00	046.00	22.00	22.00		4000	17500
2	GILMORE	GQE	VOR/DME	L	092.34	096.34		40.39		4000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
GQE	VOR/DME	R-092	41	4000	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	MEM	VORTAC	045.00	225.00	R		6	4000	14000	7	11
2	NE		WP	045.23	225.23	R		6	6000	14000	7	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-001735)	351633.00N/0894638.00W	1449	5D
2	230	TOWER (47-001735)	351633.00N/0894638.00W	1449	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC/DME RWY 36 (ALT MISS)	1, 2	1	KOLV	OLIVE BRANCH	MS (US)
STAR	LTOWN (RNAV)		2	KMEM	MEMPHIS	TN (US)
STAR	WLDER	1	1	KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. DELETED FAC 2 (HLI).
2. RENUMBERED FAC 3 (GQE) TO FAC 2.
3. AMENDED PAT 1 FROM TIMED HOLDING TO 6 NM LEGS.
4. AMENDED PAT 2 INBOUND COURSE FROM 225.36 TO 225.23.
5. AMENDED PAT 2 MAX ALTITUDE FROM 10000 TO 14000.
6. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/15/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: NASHVILLE VORTAC **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360813.06N/0864105.18W **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	FEET	MRA	MAA
1	NASHVILLE	BNA	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	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW	BNA	VORTAC	315.19	135.19	R	1		3000	6000	4	5
2	NW	BNA	VORTAC	336.00	156.00	R	1-1 1/2		7000	16000	8	15
3	E	BNA	VORTAC	080.87	260.87	L		15	18000	45000	28	29
4	E		WP	078.00	258.00	L		15	18000	45000	28	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-000685)	361550.00N/0864739.00W	2049	3D
2	230	TOWER (47-000685)	361550.00N/0864739.00W	2049	3D

REASON FOR NONSTANDARD HOLDING:
PAT 4 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.
PAT 3 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
DO NOT CHART HOLD PAT 2/USED FOR ATC OVERFLOW.
HOLD PAT 1 CONTROLLING OBSTACLE IS IN THE SECONDARY AREA.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BIRMINGHAM			KBHM	BIRMINGHAM	AL (US)
DP	HUNTSVILLE			KHSV	HUNTSVILLE	AL (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
DP	JACKSON			KJAN	JACKSON	MS (US)
DP	ZAVER (RNAV)			KCLT	CHARLOTTE	NC (US)
DP	CHATTANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	MEMPHIS			KMEM	MEMPHIS	TN (US)
DP	TITAN			KBNA	NASHVILLE	TN (US)
EN ROUTE	J39					(US)
EN ROUTE	J42					(US)
EN ROUTE	J45					(US)
EN ROUTE	J46					(US)
EN ROUTE	J73					(US)
EN ROUTE	Q19					(US)
EN ROUTE	Q32					(US)
EN ROUTE	Q34					(US)
EN ROUTE	Q36					(US)
EN ROUTE	V140					(US)
EN ROUTE	V49					(US)
IAP	RNAV (GPS) RWY 18			KHOP	FT CAMPBELL	KY (US)
IAP	RNAV (GPS) RWY 23			KHOP	FT CAMPBELL	KY (US)
IAP	RNAV (GPS) RWY 35			KM33	GALLATIN	TN (US)
IAP	VOR/DME-A			KM33	GALLATIN	TN (US)
IAP	NDB RWY 19			KM54	LEBANON	TN (US)
IAP	RNAV (GPS) RWY 01			KM54	LEBANON	TN (US)
IAP	RNAV (GPS) RWY 19			KM54	LEBANON	TN (US)
IAP	VOR/DME-A			KM54	LEBANON	TN (US)
IAP	NDB RWY 20			KLUG	LEWISBURG	TN (US)
IAP	NDB RWY 18			KMBT	MURFREESBORO	TN (US)
IAP	ILS RWY 2R (CAT II)			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 20L			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 20R			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2C			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2L			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2R			KBNA	NASHVILLE	TN (US)

IAP	ILS OR LOC RWY 31		KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2L (CAT II)		KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2L (CAT III)		KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2R (CAT III)		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) RWY 13		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20L		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20R		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2L		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2R		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 31		KBNA	NASHVILLE	TN (US)
IAP	VOR/DME RWY 13		KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC/DME RWY 20		KJWN	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 32		KMQY	SMYRNA	TN (US)
IAP	NDB RWY 32		KMQY	SMYRNA	TN (US)
IAP	VOR/DME RWY 14	1	KMQY	SMYRNA	TN (US)
IAP	VOR/DME RWY 32		KMQY	SMYRNA	TN (US)
IAP	LOC RWY 4 (ALT MISS)	1	KM91	SPRINGFIELD	TN (US)
STAR	ERLIN (RNAV)		KATL	ATLANTA	GA (US)
STAR	HERKO (RNAV)		KATL	ATLANTA	GA (US)
STAR	ROME		KATL	ATLANTA	GA (US)
STAR	RPTOR (RNAV)		KATL	ATLANTA	GA (US)
STAR	VIKNN (RNAV)		KATL	ATLANTA	GA (US)
STAR	QBALL		KSTL	ST LOUIS	MO (US)
STAR	LTOWN (RNAV)	4	KMEM	MEMPHIS	TN (US)
STAR	WLDER	3	KMEM	MEMPHIS	TN (US)
STAR	GRAHAM		KMBT	MURFREESBORO	TN (US)
STAR	GUITR		KMBT	MURFREESBORO	TN (US)
STAR	HEHAW		KMBT	MURFREESBORO	TN (US)
STAR	VOLLS		KMBT	MURFREESBORO	TN (US)
STAR	GRAHAM		KBNA	NASHVILLE	TN (US)
STAR	GUITR		KBNA	NASHVILLE	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)
STAR	VOLLS		KBNA	NASHVILLE	TN (US)
STAR	GRAHAM		KJWN	NASHVILLE	TN (US)
STAR	GUITR		KJWN	NASHVILLE	TN (US)
STAR	HEHAW		KJWN	NASHVILLE	TN (US)
STAR	VOLLS		KJWN	NASHVILLE	TN (US)
STAR	GRAHAM		KMQY	SMYRNA	TN (US)
STAR	GUITR		KMQY	SMYRNA	TN (US)
STAR	HEHAW		KMQY	SMYRNA	TN (US)
STAR	VOLLS		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. ADDED HOLDING PAT 3 AND PAT 4 TO SUPPORT MEM STARS.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SPKER **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 354350.25N/0890412.82W **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	MEMPHIS	MEM	VORTAC	H	045.00	046.00	62.00	62.00		5000	45000
2	NASHVILLE	BNA	VORTAC	H	260.87	258.87	118.75	118.75		10000	45000
3	BOWLING GREEN	BWG	VORTAC	H	239.37	241.37	146.18	146.18		22000	45000
4	POCKET CITY	PXV	VORTAC	H	202.96	205.96	145.98	145.98		22000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MEM	VORTAC	R-045	62	5000	14900
BNA	VORTAC	R-261	119	10000	20000
BWG	VORTAC	R-239	146	22000	45000
PXV	VORTAC	R-203	146	22000	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		WP	045.53	225.53	L		12	10000	24000	20	20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (47-000702)	355405.00N/0884651.00W	1462	3C

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST. 12 NM LEG LENGTHS ATC REQUEST.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
MEMPHIS (FAC 1) USED TO ESTABLISH FIX COORDINATES
CHART FAC 1 AND PAT 1 ON ENROUTE LOW/HIGH PER ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)		1	KMEM	MEMPHIS	TN (US)
STAR	WLDER	1, 2, 3, 4		KMEM	MEMPHIS	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. REMOVED INT FROM FIX TYPE.
2. DELETED CURRENT FAC 2 (JKS) AND FAC 3 (DYR).
3. ADDED NEW FAC 2 (BNA), NEW FAC 3 (BWG), AND FAC 4 TO SUPPORT WLDER STAR.
4. POPULATED ESV DATA.
5. AMENDED PAT 1 FROM TIMED HOLDING TO 12 NM LEGS.
6. AMENDED PAT 2 MIN HOLDING ALTITUDE FROM 18000 TO 10000 AND MAX HOLDING ALTITUDE FROM 26000 TO 24000.
7. AMENDED PAT 1 CONTROLLNG OBSTACLE FROM 1420 MSL TOWER TO 1462 MSL TOWER (NO CHANGE TO MIN HOLDING ALT 5000).
8. AMENDED PAT 2 CONTROLLING OBSTACLE FROM 1553 MSL TOWER TO 1462 MSL TOWER.
9. UPDATED FIX USE.

06/08/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/14/2012.
DELETED PAT 1 DUE TO UNSAT FLIGHT INSPECTION. PAT 2 RENUMBERED PAT 1.

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

QUALITY CHECKED

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: SUDOE **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 370513.36N/0881622.76W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/16/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WLDER **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 353329.38N/0891733.33W **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	MEMPHIS	MEM	VORTAC	H	045.00	046.00	47.00	47.00		5000	45000
2	DYERSBURG	DYR	VORTAC	L	174.45	177.45	27.61	27.61		5000	17500
3	MC KELLAR	MKL	VOR/DME	T	262.84	261.84	18.90	18.90		5000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MEM	VORTAC	R-045	47	5000	17500

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

REMARKS:
MEMPHIS (FAC 1) USED TO ESTABLISH FIX COORDINATES
CHART FAC 1 ON ENROUTE HIGH/LOW PER ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)
STAR	WLDER	1, 2, 3		KMEM	MEMPHIS	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. DELETED INT FROM FIX TYPE.
2. DELETED FAC 4 (JKS).
3. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: POCKET CITY VORTAC **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 375541.95N/0874544.56W **TYPE:**

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

INFO ONLY

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	POCKET CITY	PXV	VORTAC	H							45000

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	NW	PXV	VORTAC	330.20	150.20	R	1		2100	14000	4	10
2	SW	PXV	VORTAC	237.00	057.00	R	1		2500	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (21-000029)	375155.00N/0873405.00W	1449	2C
1	200	TOWER (18-001320)	375706.80N/0874543.60W	967	5D
2	200	TOWER (18-001320)	375706.80N/0874543.60W	967	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED ON AIRWAY RADIALS AT OR ABOVE 2500.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	TURBO			KALN	ALTON/ST LOUIS	IL (US)
DP	BLUES			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	BLUES			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	PLESS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	TURBO			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	HOOSIER			KEYE	INDIANAPOLIS	IN (US)
DP	HOOSIER			KHFY	INDIANAPOLIS	IN (US)
DP	HOOSIER			KIND	INDIANAPOLIS	IN (US)
DP	INDY			KIND	INDIANAPOLIS	IN (US)
DP	KEECH			KIND	INDIANAPOLIS	IN (US)
DP	HOOSIER			KMQJ	INDIANAPOLIS	IN (US)
DP	HOOSIER			KTYQ	INDIANAPOLIS	IN (US)
DP	HOOSIER			KUMP	INDIANAPOLIS	IN (US)
DP	HOOSIER			KGEZ	SHELBYVILLE	IN (US)
DP	APALO (RNAV)			KSDF	LOUISVILLE	KY (US)
DP	BLUES			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	TURBO			KSTL	ST LOUIS	MO (US)
DP	BLUES			KSUS	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
DP	TURBO			KSUS	ST LOUIS	MO (US)
DP	TITAN (OBS)			KBNA	NASHVILLE	TN (US)
EN ROUTE	J131					(US)
EN ROUTE	J29					(US)
EN ROUTE	J73					(US)
EN ROUTE	J78					(US)
EN ROUTE	Q25					(US)
EN ROUTE	Q28					(US)
EN ROUTE	Q29					(US)
EN ROUTE	Q31					(US)
EN ROUTE	V11					(US)
EN ROUTE	V190					(US)
EN ROUTE	V305					(US)
EN ROUTE	V4					(US)
EN ROUTE	V47					(US)
EN ROUTE	V512					(US)
EN ROUTE	V52					(US)
EN ROUTE	V7					(US)
EN ROUTE	J112					IL (US)
IAP	NDB RWY 36			KCUL	CARMI	IL (US)
IAP	NDB RWY 9			KFWC	FAIRFIELD	IL (US)
IAP	ILS OR LOC RWY 23			KMVN	MOUNT VERNON	IL (US)
IAP	ILS OR LOC RWY 22		2	KEVV	EVANSVILLE	IN (US)
IAP	ILS OR LOC RWY 4		2	KEVV	EVANSVILLE	IN (US)
IAP	NDB RWY 22			KEVV	EVANSVILLE	IN (US)
IAP	RADAR-1		2	KEVV	EVANSVILLE	IN (US)

IAP	RNAV (GPS) RWY 22		KEVV	EVANSVILLE	IN (US)
IAP	RNAV (GPS) RWY 4		KEVV	EVANSVILLE	IN (US)
IAP	VOR RWY 4	2	KEVV	EVANSVILLE	IN (US)
IAP	RNAV (GPS) RWY 8		KFRH	FRENCH LICK	IN (US)
IAP	VOR-A	1	KEHR	HENDERSON	KY (US)
IAP	RNAV (GPS) RWY 25		K5M9	MARION	KY (US)
IAP	RNAV (GPS) RWY 7		K5M9	MARION	KY (US)
IAP	ILS OR LOC RWY 36		KOWB	OWENSBORO	KY (US)
IAP	VOR RWY 18		KOWB	OWENSBORO	KY (US)
IAP	VOR RWY 36		KOWB	OWENSBORO	KY (US)
IAP	VOR RWY 5		KOWB	OWENSBORO	KY (US)
STAR	RACYR		KIND	INDIANAPOLIS	IN (US)
STAR	CHERI		KJVY	JEFFERSONVILLE	IN (US)
STAR	SARGO (RNAV)		KCVG	COVINGTON	KY (US)
STAR	MOSEY		KCVG	COVINGTON/CINCINNATI	KY (US)
STAR	CHERI		KFTK	FORT KNOX	KY (US)
STAR	CHERI		KLOU	LOUISVILLE	KY (US)
STAR	CHERI		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	QBALL		KSTL	ST LOUIS	MO (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABER		KCLE	CLEVELAND	OH (US)
STAR	GAILL (RNAV)		KCMH	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KLCK	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KOSU	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KTZR	COLUMBUS	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	GAILL (RNAV)		KLHQ	LANCASTER	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	GAILL (RNAV)		KVTA	NEWARK	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)
STAR	LTOWN (RNAV)		KMEM	MEMPHIS	TN (US)
STAR	WLDER		KMEM	MEMPHIS	TN (US)
STAR	HEHAW		KMBT	MURFREESBORO	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)
STAR	HEHAW		KJWN	NASHVILLE	TN (US)
STAR	HEHAW		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 02/11/2010

REASON FOR REVISION:
UPDATED FIX USE.
ADDED PRECIPITOUS TERRAIN EVALUATION STATEMENT TO REMARKS SECTION.
MOVED UNPLANNED HOLDING AUTHORIZED NOTE FROM REMARKS SECTION TO HOLDING RESTRICTIONS SECTION.

DEVELOPED BY: **DATE:** 06/26/2009 **OFFICE:** AVN-120 **NAME:** DONALD LANIER

APPROVED BY: **DATE:** 12/15/2009 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZID, KC, ZME
ATC FACILITY: EVV ATCT
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WISNA **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 373628.29N/0875730.25W **TYPE:** WP, DME

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

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	POCKET CITY	PXV	VORTAC	H	202.96	205.96	21.35	21.35		22000	45000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)
STAR	WLDER	1		KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/10/2011

DEVELOPED BY: **DATE:** 06/07/2010 **OFFICE:** AVN-110 **NAME:** JILL OLSON

APPROVED BY: **DATE:** 12/10/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER: ZID

RADIO FIX AND HOLDING DATA RECORD

NAME: NDREA **STATE:** MS **COUNTRY:** US

LATITUDE/LONGITUDE: 343131.98N/0894955.00W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LTOWN (RNAV)			KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 03/10/2011

REASON FOR REVISION:
DELETED FAC 1 (WP).
UPDATED FIX USE.
UPDATED SIGNATURE BLOCKS.

DEVELOPED BY: **DATE:** **OFFICE:** AVN-110 **NAME:** JILL OLSON

APPROVED BY: **DATE:** **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER:

CANCEL

Name:	JERRY MILLER
Project Name:	MEM LTOWN6 LTOWN DINKE 20120309
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	3/9/2012 4:00:26 PM
Input File:	LTOWN DINKE CORRECTE..
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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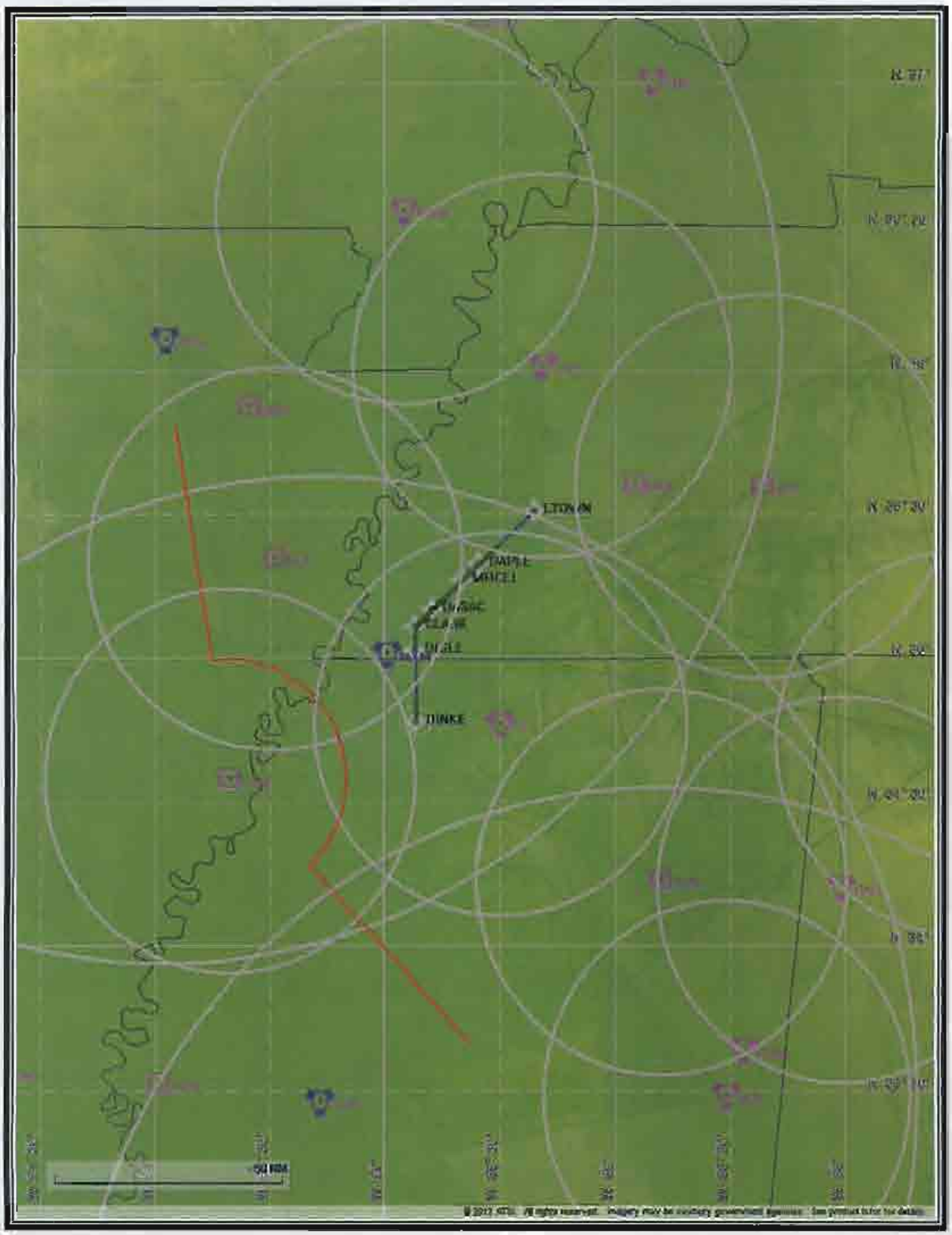

LTOWN
DINKE

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
LTOWN	WP	N 35° 30' 43.57" W 89° 21' 6.22"	6000.0	Step	210.0	Fly By	TF
DAPLE	WP	N 35° 19' 36.17" W 89° 35' 19.27"	6000.0	Step	210.0	Fly By	TF
MRCEL	WP	N 35° 16' 11.30" W 89° 39' 39.91"	6000.0	Step	210.0	Fly By	TF
DASAC	WP	N 35° 10' 3.82" W 89° 47' 26.04"	6000.0	Step	210.0	Fly By	TF
CLARK	WP	N 35° 6' 28.20" W 89° 51' 58.69"	6000.0	Step	180.0	Fly By	TF
DIGLE	WP	N 35° 1' 27.73" W 89° 51' 54.90"	3000.0	Step	180.0	Fly By	TF
DINKE	WP	N 34° 46' 26.31" W 89° 51' 43.57"	3000.0	Step	180.0	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 **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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

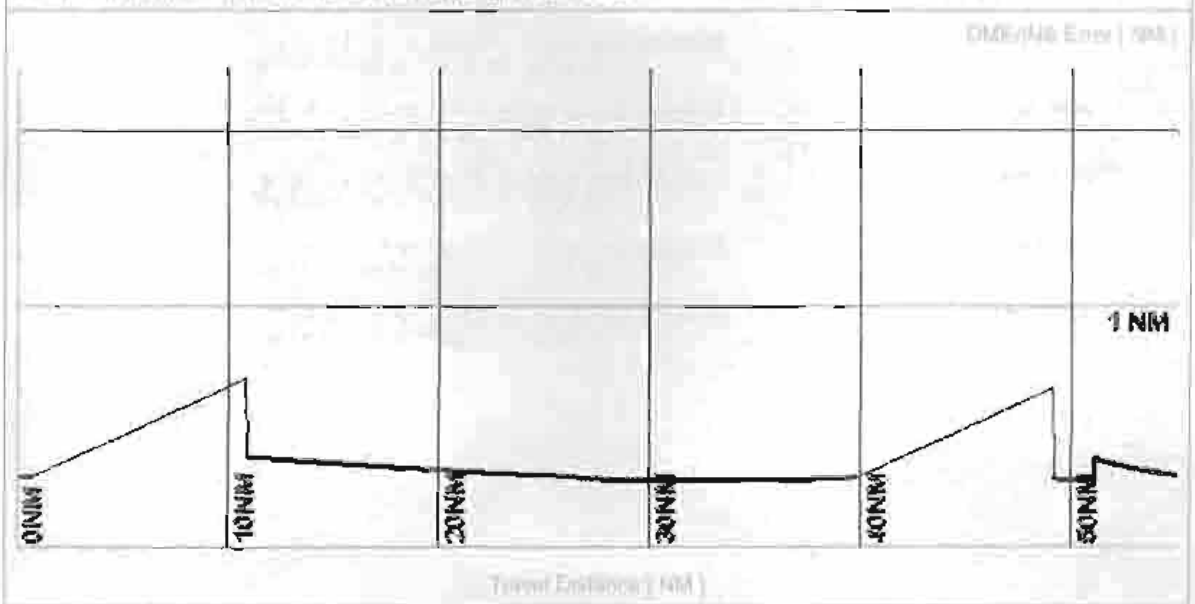
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 6

Maximum DME Error: 0.704 NM.

No Critical DMEs were found.

Available DMEs: DYR, MKL, MEM, HLI, UJM, GQE



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L + ESV	User	NO	0.991	Enabled	12.3 %	12.2 %
2	MKL	N 35° 36' 12.83" W 88° 54' 37.55"	T	Database	NO	0.991	Enabled	1.2 %	1.1 %
3	HLI	N 34° 46' 12.95" W 89° 29' 47.39"	L + ESV	User	NO	1.375	Enabled	48.4 %	48.5 %
4	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H	Database	NO	1.153	Enabled	40.3 %	40.4 %
5	UJM	N 34° 34' 30.16" W 90° 40' 27.84"	L + ESV	User	NO	0.822	Enabled	15.2 %	15.2 %
6	GQE	N 35° 20' 49.31" W 90° 28' 41.37"	L + ESV	User	NO	0.704	Enabled	11.1 %	11.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	DYR	HLI	MEM	MKL		
16.1	DYR	HLI	MEM			
21.0	DYR	HLI	MEM	UJM	GQE	
29.8	DYR	HLI	MEM	UJM	GQE	
34.3	DYR	HLI	MEM	UJM	GQE	
39.9	GQE	HLI	MEM	UJM		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 35° 30' 15.86" W 89° 21' 41.76"	N 35° 23' 13.91" W 89° 30' 41.69"	10.2

VOR: DYR	Available from N 35° 30' 15.86" W 89° 21' 41.76" to N 35° 23' 13.91" W 89° 30' 41.69"
VOR: GOJ	Available from N 35° 30' 15.86" W 89° 21' 41.76" to N 35° 23' 13.91" W 89° 30' 41.69"
VOR: MKL	Available from N 35° 30' 15.86" W 89° 21' 41.76" to N 35° 23' 13.91" W 89° 30' 41.69"
VOR: MEM	Available from N 35° 28' 39.03" W 89° 23' 45.91" to N 35° 23' 13.91" W 89° 30' 41.69"
VOR: HLI	Available from N 35° 26' 11.55" W 89° 26' 54.71" to N 35° 23' 13.91" W 89° 30' 41.69"

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 35° 1' 40.16" W 89° 51' 55.11"	N 34° 52' 19.28" W 89° 51' 47.95"	9.3
	VOR: GQE	Available from N 35° 1' 40.16" W 89° 51' 55.11" to N 34° 54' 36.16" W 89° 51' 49.65"	
	VOR: HLI	Available from N 35° 1' 40.16" W 89° 51' 55.11" to N 34° 52' 19.28" W 89° 51' 47.95"	
	VOR: MEM	Available from N 35° 1' 40.16" W 89° 51' 55.11" to N 34° 52' 19.28" W 89° 51' 47.95"	

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SQS	N 33° 27' 49.90" W 90° 16' 38.40"	H	125.0	114.70	SQS	Not Used
		ESV: Bearing [True]: 303.0° to 350.0° Bearing [Mag]: 300.0° to 347.0°			Arc Distance: Out to 77.0 NM Altitude: 6500.0 to 23000.0 Ft.		
2	GQE	N 35° 20' 49.31" W 90° 28' 41.37"	L	211.0	113.00	GQE	Used
		ESV: Bearing [True]: 110.0° to 200.0° Bearing [Mag]: 106.0° to 196.0°			Arc Distance: Out to 62.0 NM Altitude: 3200.0 to 19000.0 Ft.		
3	HLI	N 34° 46' 12.95" W 89° 29' 47.39"	L	630.0	112.40	HLI	Used
		ESV: Bearing [True]: 246.0° to 288.0° Bearing [Mag]: 243.0° to 285.0°			Arc Distance: Out to 96.0 NM Altitude: 8500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 324.0° to 340.0° Bearing [Mag]: 321.0° to 337.0°			Arc Distance: Out to 75.0 NM Altitude: 7500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 290.0° to 328.0° Bearing [Mag]: 287.0° to 325.0°			Arc Distance: Out to 51.0 NM Altitude: 2500.0 to 18000.0 Ft.		
4	OTB	N 34° 13' 25.88" W 88° 47' 50.44"	L	363.7	109.80	OTB	Not Used
		ESV: Bearing [True]: 291.0° to 298.0° Bearing [Mag]: 287.0° to 294.0°			Arc Distance: Out to 71.0 NM Altitude: 3200.0 to 15000.0 Ft.		
		ESV: Bearing [True]: 345.0° to 37.0° Bearing [Mag]: 341.0° to 33.0°			Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 12000.0 Ft.		
		ESV: Bearing [True]: 312.0° to 11.0° Bearing [Mag]: 308.0° to 7.0°			Arc Distance: Out to 62.0 NM Altitude: 3500.0 to 12000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation (Ft)	Frequency	Replaces:	Status
5	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L	388.7	116.80	DYR	Used
		ESV: Bearing [True]: 220.0° to 303.0° Bearing [Mag]: 217.0° to 300.0°			Arc Distance: Out to 58.0 NM Altitude: 4200.0 to 23000.0 Ft.		
		ESV: Bearing [True]: 223.0° to 245.0° Bearing [Mag]: 220.0° to 242.0°			Arc Distance: Out to 79.0 NM Altitude: 5000.0 to 21000.0 Ft.		
		ESV: Bearing [True]: 188.0° to 201.0° Bearing [Mag]: 185.0° to 198.0°			Arc Distance: Out to 62.0 NM Altitude: 3200.0 to 18000.0 Ft.		
		ESV: Bearing [True]: 180.0° to 210.0° Bearing [Mag]: 177.0° to 207.0°			Arc Distance: Out to 72.0 NM Altitude: 4500.0 to 16000.0 Ft.		
6	ARG	N 36° 6' 35.95" W 90° 57' 13.23"	H	260.0	114.50	ARG	Not Used
		ESV: Bearing [True]: 115.0° to 168.0° Bearing [Mag]: 111.0° to 164.0°			Arc Distance: Out to 69.0 NM Altitude: 4500.0 to 19000.0 Ft.		
7	UJM	N 34° 34' 30.16" W 90° 40' 27.84"	L	240.8	109.60	UJM	Used
		Restriction: Bearing [True]: 351.0° to 136.0° Bearing [Mag]: 350.0° to 135.0°			Distance: Beyond 25.0 NM Altitude: Below 2800.0 Ft.		
		ESV: Bearing [True]: 15.0° to 90.0° Bearing [Mag]: 14.0° to 89.0°			Arc Distance: Out to 60.0 NM Altitude: 3500.0 to 18000.0 Ft.		
		ESV: Bearing [True]: 50.0° to 70.0° Bearing [Mag]: 49.0° to 69.0°			Arc Distance: Out to 59.0 NM Altitude: 3000.0 to 17000.0 Ft.		
8	IGB	N 33° 29' 7.75" W 88° 30' 48.93"	L	240.1	116.20	IGB	Not Used
		ESV: Bearing [True]: 265.0° to 301.0° Bearing [Mag]: 261.0° to 297.0°			Arc Distance: Out to 96.0 NM Altitude: 8500.0 to 23000.0 Ft.		
		ESV: Bearing [True]: 260.0° to 319.0° Bearing [Mag]: 256.0° to 315.0°			Arc Distance: Out to 98.0 NM Altitude: 8500.0 to 23000.0 Ft.		
9	MEI	N 32° 22' 42.43" W 88° 48' 15.31"	H	578.1	117.00	MEI	Not Used
		ESV: Bearing [True]: 305.0° to 318.0° Bearing [Mag]: 300.0° to 313.0°			Arc Distance: Out to 109.0 NM Altitude: 12000.0 to 25000.0 Ft.		
10	HAB	N 34° 11' 55.57" W 88° 0' 41.83"	L	802.1	110.40	HAB	Not Used
		ESV: Bearing [True]: 315.0° to 358.0° Bearing [Mag]: 313.0° to 356.0°			Arc Distance: Out to 73.0 NM Altitude: 10000.0 to 15000.0 Ft.		

DME/DME (Continued.)

Return To Summary

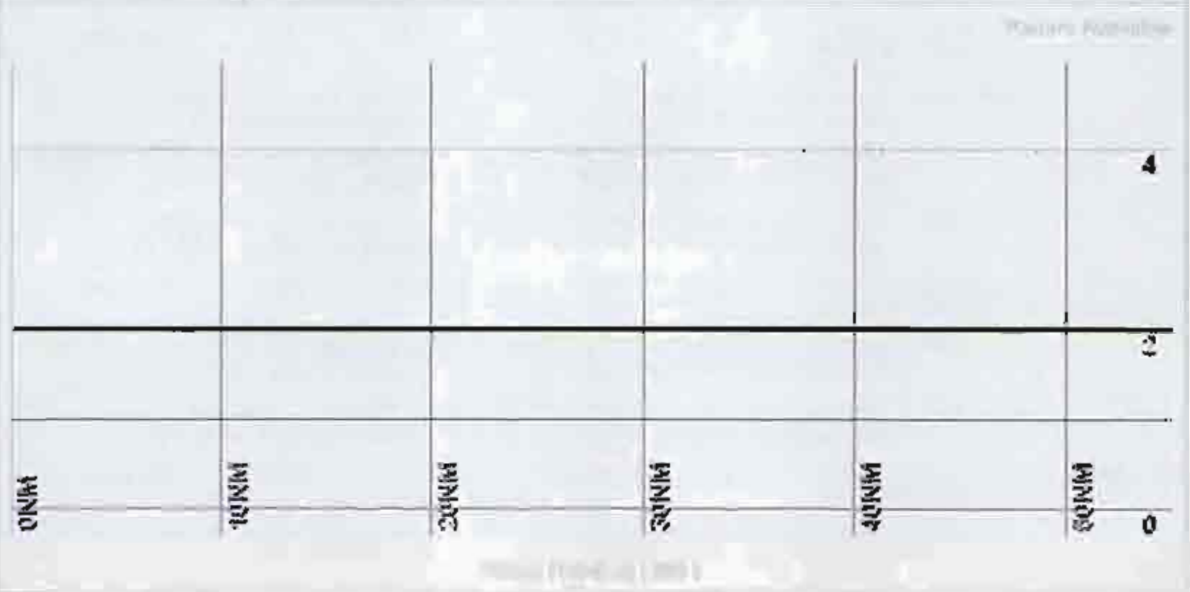
User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
11	MSL	N 34° 42' 24.68" W 87° 29' 29.70"	L	579.7	116.50	MSL	Not Used
	Restriction:	Bearing [True]: 47.0° to 85.0° Bearing [Mag]: 46.0° to 84.0°			Distance: Beyond 25.0 NM Altitude: Below 2000.0 Ft.		
	ESV:	Bearing [True]: 236.0° to 281.0° Bearing [Mag]: 235.0° to 280.0°			Arc Distance: Out to 90.0 NM Altitude: 7500.0 to 21000.0 Ft.		
	ESV:	Bearing [True]: 296.0° to 350.0° Bearing [Mag]: 295.0° to 349.0°			Arc Distance: Out to 82.0 NM Altitude: 12000.0 to 21000.0 Ft.		
12	JKS	N 35° 35' 56.36" W 88° 21' 31.96"	L	630.0	109.40	JKS	Not Used
	ESV:	Bearing [True]: 236.0° to 245.0° Bearing [Mag]: 234.0° to 243.0°			Arc Distance: Out to 73.0 NM Altitude: 4600.0 to 18000.0 Ft.		
	ESV:	Bearing [True]: 176.0° to 235.0° Bearing [Mag]: 174.0° to 233.0°			Arc Distance: Out to 84.0 NM Altitude: 6200.0 to 19000.0 Ft.		
13	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	280.0	111.20	MAW	Not Used
	ESV:	Bearing [True]: 187.0° to 207.0° Bearing [Mag]: 184.0° to 204.0°			Arc Distance: Out to 86.0 NM Altitude: 4000.0 to 16000.0 Ft.		
	ESV:	Bearing [True]: 146.0° to 183.0° Bearing [Mag]: 143.0° to 180.0°			Arc Distance: Out to 59.0 NM Altitude: 7000.0 to 23000.0 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:	KMEM LTOWN6 BNA COPE...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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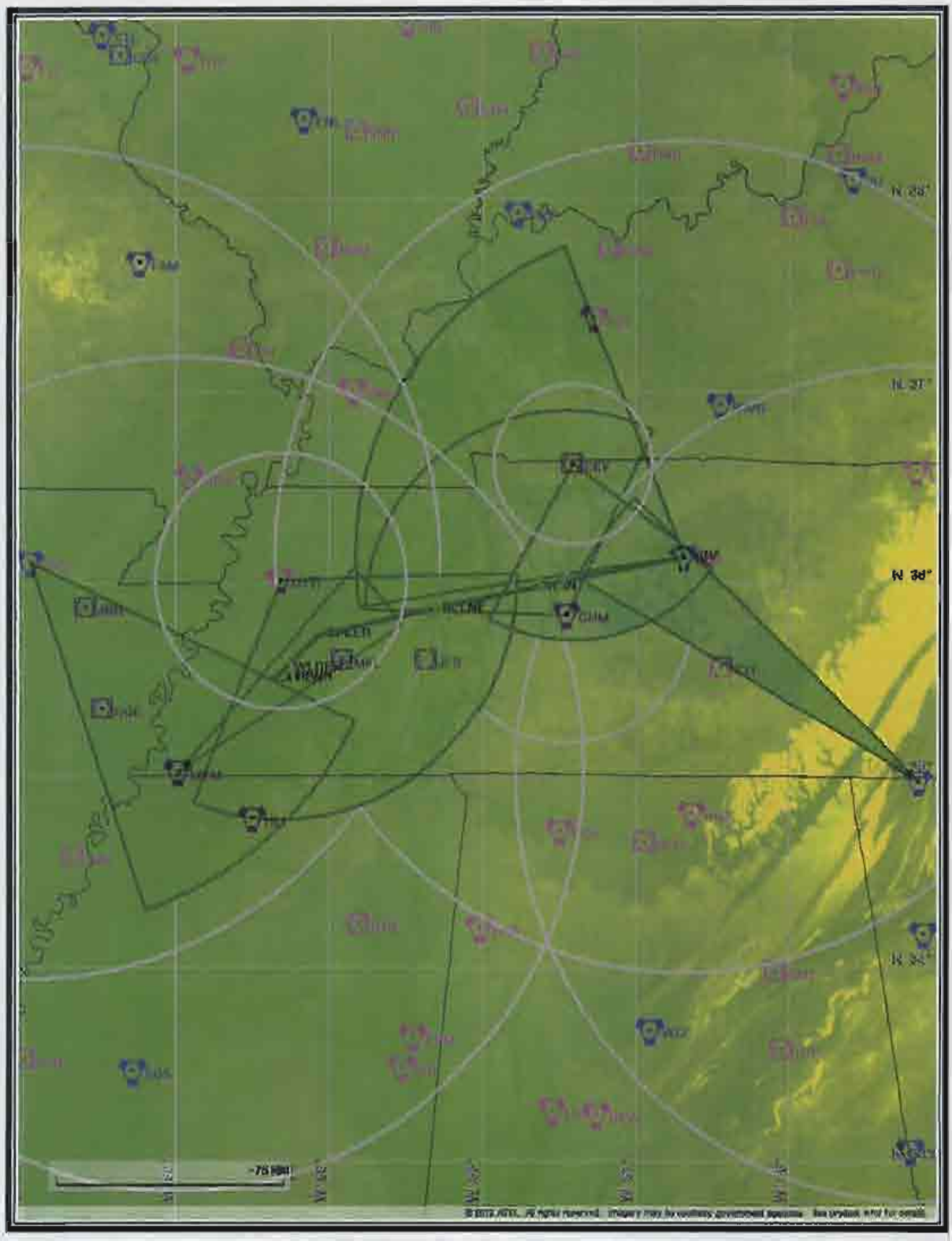

N 38°
N 37°
N 36°
N 35°
75 NM

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BNA	WP	N 36° 8' 13.06" W 86° 41' 5.18"	18000.0	Step	290.0	Fly By	TF
CITAN	WP	N 35° 58' 24.53" W 87° 41' 33.37"	18000.0	Step	250.0	Fly By	TF
KELNE	WP	N 35° 52' 4.38" W 88° 18' 55.20"	18000.0	Step	250.0	Fly By	TF
SPKER	WP	N 35° 43' 50.25" W 89° 4' 12.82"	10000.0	Step	180.0	Fly By	TF
WLDER	WP	N 35° 33' 29.38" W 89° 17' 33.33"	6000.0	Step	180.0	Fly By	TF
LTOWN	WP	N 35° 30' 43.57" W 89° 21' 6.22"	3000.0	Step	180.0	Fly By	TF
COPEN	WP	N 35° 29' 58.24" W 89° 23' 22.34"	3000.0	Step	180.0	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 **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	
ALTITUDE at Fly-By WP LTOWN too high.		

DME/DME

Return To Summary

Settings:

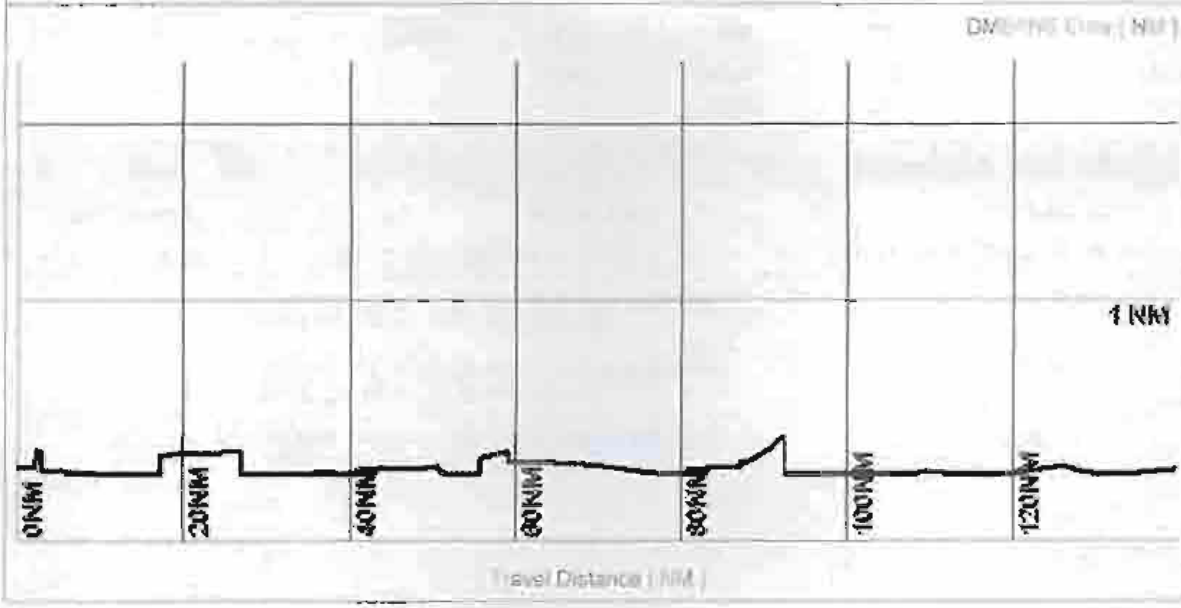
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 9

Maximum DME Error: 0.439 NM

No Critical DMEs were found

Available DMEs: GQO, BWG, CKV, GHM, BNA, JKS, DYR, MEM, MKL



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H + ESV	User	NO	0.560	Enabled	6.8 %	7.5 %
2	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	0.647	Enabled	15.0 %	16.5 %
3	CKV	N 36° 37' 19.17" W 87° 24' 45.53"	T + ESV	User	NO	0.439	Enabled	20.8 %	22.9 %
4	GHM	N 35° 50' 2.24" W 87° 27' 6.45"	L + ESV	User	NO	0.485	Enabled	30.9 %	34.1 %
5	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H + ESV	User	NO	0.461	Enabled	13.6 %	14.8 %
6	JKS	N 35° 35' 56.36" W 88° 21' 31.96"	L	Database	NO	0.800	Enabled	35.4 %	35.4 %
7	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L + ESV	User	NO	0.833	Enabled	33.7 %	31.1 %
8	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.543	Enabled	14.2 %	12.1 %
9	MKL	N 35° 36' 12.83" W 88° 54' 37.55"	T	Database	NO	0.570	Enabled	28.7 %	24.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	GQO	BWG	CKV	GHM	BNA	
50.0	JKS	BWG	CKV	GHM	BNA	DYR
60.1	JKS	BWG	DYR	GHM	BNA	
70.8	JKS	MEM	DYR	GHM	BNA	
81.0	JKS	MEM	DYR	MKL	BNA	
118.1	JKS	MEM	DYR	MKL		
133.7	MKL	MEM	DYR			
137.2	MKL	DYR				

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 35° 49' 42.22" W 88° 32' 8.62"	N 35° 49' 37.02" W 88° 32' 37.43"	0.4

VOR: DYR	Available from N 35° 49' 42.22" W 88° 32' 8.62" to N 35° 49' 37.02" W 88° 32' 37.43"
VOR: JKS	Available from N 35° 49' 42.22" W 88° 32' 8.62" to N 35° 49' 37.02" W 88° 32' 37.43"
VOR: MKL	Available from N 35° 49' 42.22" W 88° 32' 8.62" to N 35° 49' 37.02" W 88° 32' 37.43"

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 35° 29' 59.77" W 89° 23' 17.69"	N 35° 29' 58.52" W 89° 23' 21.47"	0.1
	VOR: DYR	Available from N 35° 29' 59.77" W 89° 23' 17.69" to N 35° 29' 58.52" W 89° 23' 21.47"	
	VOR: GOJ	Available from N 35° 29' 59.77" W 89° 23' 17.69" to N 35° 29' 58.52" W 89° 23' 21.47"	
	VOR: MKL	Available from N 35° 29' 59.77" W 89° 23' 17.69" to N 35° 29' 58.52" W 89° 23' 21.47"	

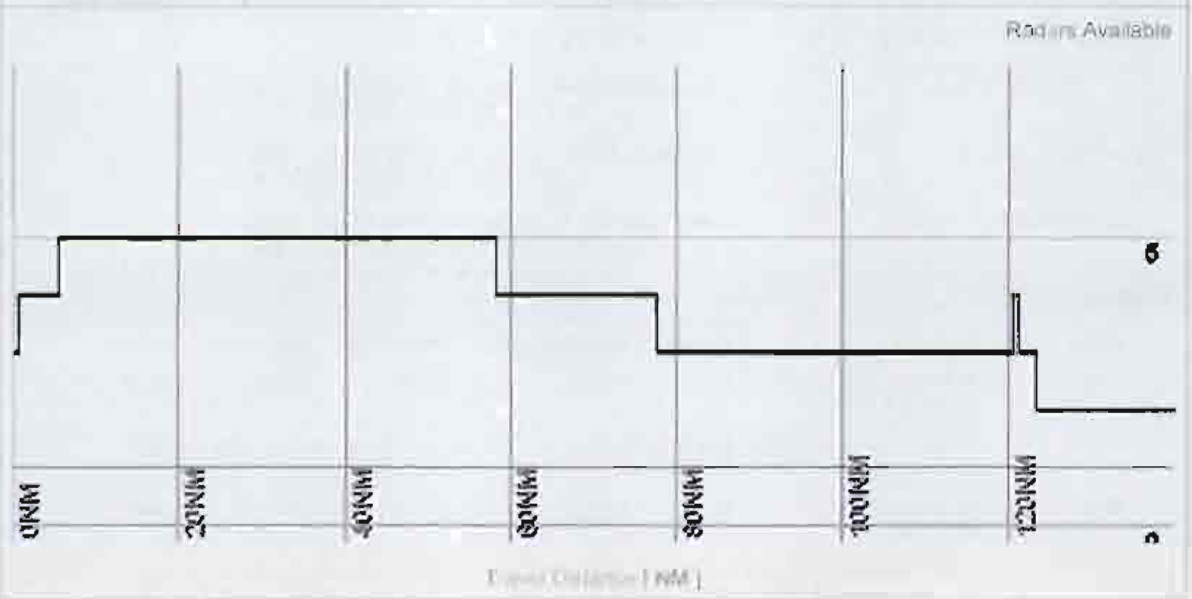
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GHM	N 35° 50' 2.24" W 87° 27' 6.45"	L	770.0	111.60	GHM	Used
		ESV: Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 269.0° to 22.0°			Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 18000.0 Ft.		
2	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H	565.8	114.10	BNA	Used
		ESV: Bearing [True]: 262.0° to 339.0° Bearing [Mag]: 264.0° to 341.0°			Arc Distance: Out to 104.0 NM Altitude: 10000.0 to 18000.0 Ft.		
3	ARG	N 36° 6' 35.95" W 90° 57' 13.23"	H	260.0	114.50	ARG	Not Used
		ESV: Bearing [True]: 115.0° to 161.0° Bearing [Mag]: 111.0° to 157.0°			Arc Distance: Out to 115.0 NM Altitude: 8000.0 to 12000.0 Ft.		
4	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 41.0° to 57.0° Bearing [Mag]: 40.0° to 56.0°			Arc Distance: Out to 85.0 NM Altitude: 5000.0 to 18000.0 Ft.		
5	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H	1014.5	115.80	GQO	Used
		ESV: Bearing [True]: 301.0° to 315.0° Bearing [Mag]: 300.0° to 314.0°			Arc Distance: Out to 127.0 NM Altitude: 0.0 to 24000.0 Ft.		
6	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L	388.7	116.80	DYR	Used
		ESV: Bearing [True]: 88.0° to 202.0° Bearing [Mag]: 85.0° to 199.0°			Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 18000.0 Ft.		
7	CKV	N 36° 37' 19.17" W 87° 24' 45.53"	T	544.0	110.60	CKV	Used
		ESV: Bearing [True]: 126.0° to 209.0° Bearing [Mag]: 127.0° to 210.0°			Arc Distance: Out to 55.0 NM Altitude: 10000.0 to 18000.0 Ft.		

Radar Analysis

Return To Summary

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



Name:	MILLERJ
Project Name:	MEM LTOWN6 BWG SPKED 20120125
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	1/25/2012 12:51:11 PM
Input File:	KMEM LTOWN6 BWG SPKE..
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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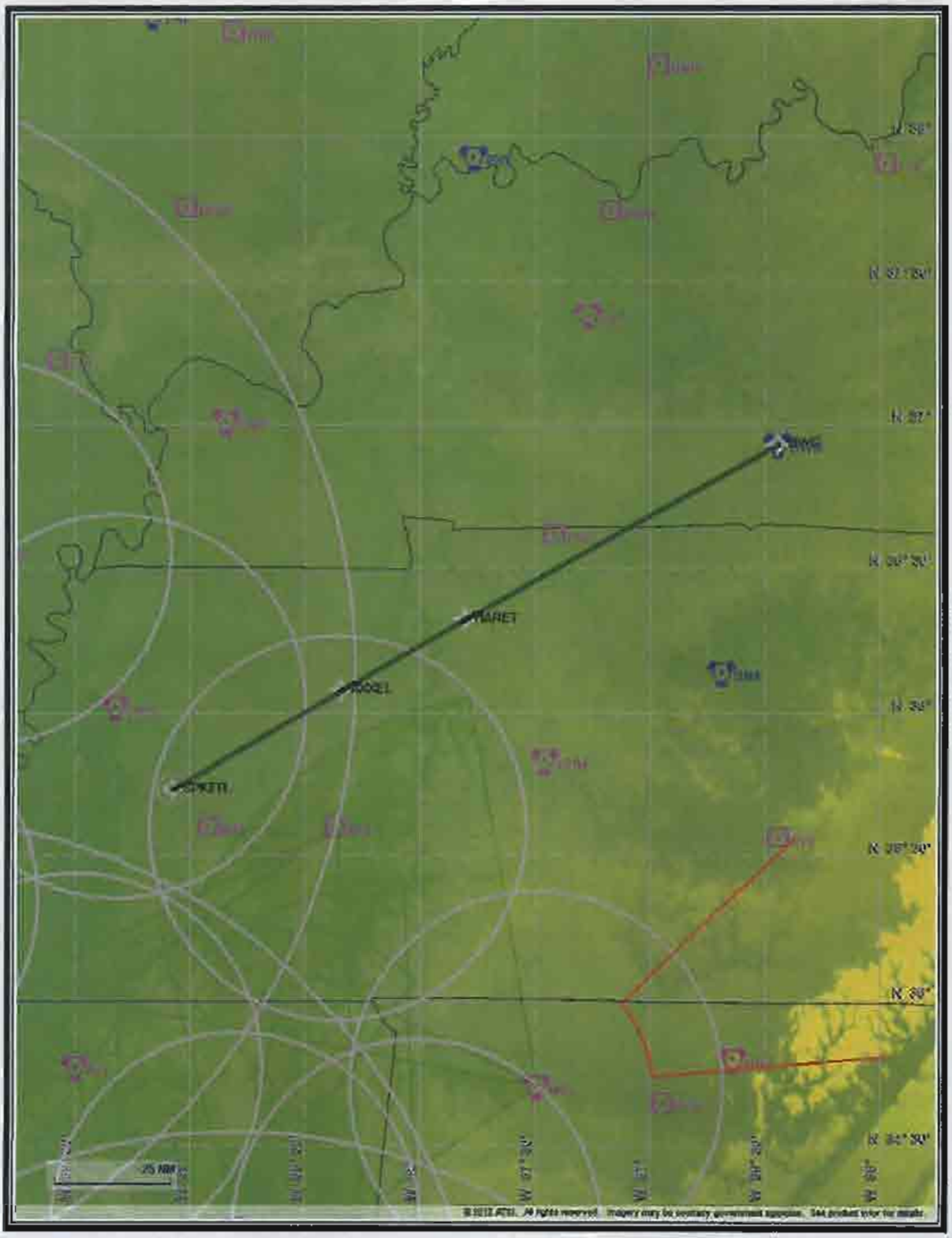

MARET
RODEL
25 NM

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BWG	WP	N 36° 55' 43.47" W 86° 26' 36.36"	18000.0	Step	250.0	Fly By	TF
HARET	WP	N 36° 19' 16.57" W 87° 48' 4.31"	18000.0	Step	250.0	Fly By	TF
AXXEL	WP	N 36° 4' 26.33" W 88° 20' 18.08"	18000.0	Step	290.0	Fly By	TF
SPKER	WP	N 35° 43' 50.25" W 89° 4' 12.82"	10000.0	Step	250.0	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 **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	
Entire track is fly-able		

DME/DME

Return To Summary

Settings:

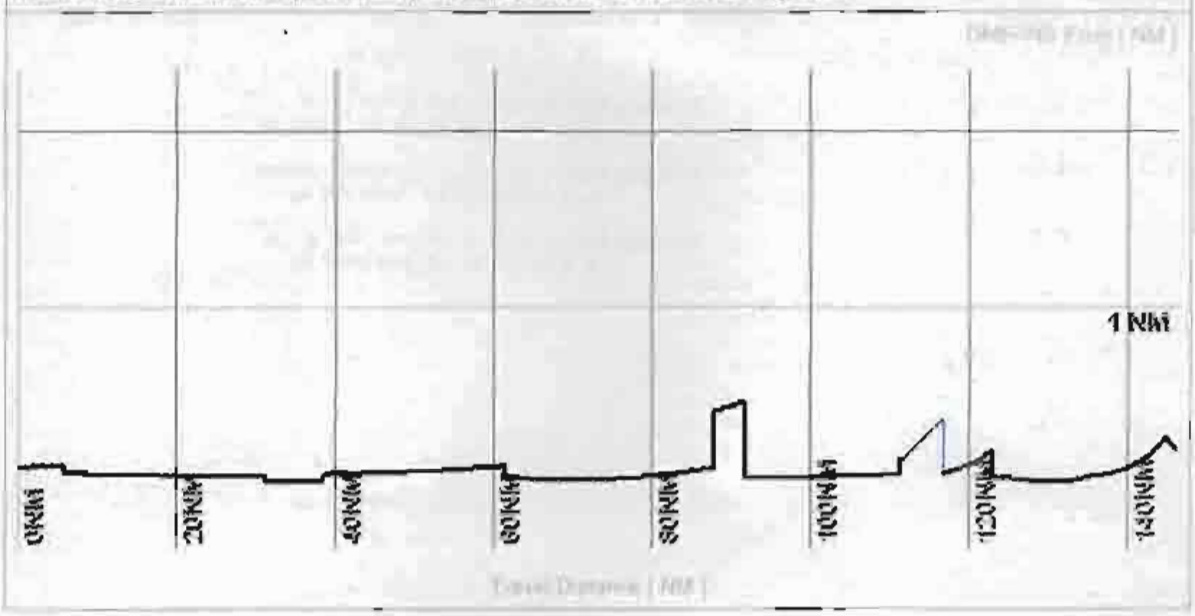
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 9

Maximum DME Error: 0.610 NM.

No Critical DMEs were found.

Available DMEs: BNA, IIU, PXV, BWG, GHM, JKS, MEM, DYR, MKL



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	Database	NO	0.610	Enabled	3.6 %	3.8 %
2	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.840	Enabled	34.7 %	36.9 %
3	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	1.178	Enabled	55.4 %	58.9 %
4	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H	Database	NO	0.696	Enabled	20.3 %	21.2 %
5	GHM	N 35° 50' 2.12" W 87° 27' 6.35"	L	Database	NO	0.610	Enabled	16.9 %	18.0 %
6	JKS	N 35° 35' 56.36" W 86° 21' 31.96"	L + ESV	User	NO	1.589	Enabled	28.8 %	26.8 %
7	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H	Database	NO	0.610	Enabled	0.3 %	0.3 %
8	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L + ESV	User	NO	0.764	Enabled	14.6 %	12.3 %
9	MKL	N 35° 36' 12.83" W 88° 54' 37.55"	T	Database	NO	1.260	Enabled	18.3 %	15.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	IIU	PXV	BNA	BWG	GHM	
75.0	JKS	PXV	BNA	BWG	GHM	
105.0	JKS	MEM	BNA	DYR	MKL	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 36° 1' 7.64" W 88° 27' 25.47"	N 35° 58' 38.19" W 88° 32' 46.19"	5.0

VOR: JKS — Available from N 36° 1' 7.64" W 88° 27' 25.47" to N 35° 58' 38.19" W 88° 32' 46.19"

VOR: MKL — Available from N 36° 1' 7.64" W 88° 27' 25.47" to N 35° 58' 38.19" W 88° 32' 46.19"

VOR: DYR — Available from N 36° 0' 1.93" W 88° 29' 46.65" to N 35° 58' 38.19" W 88° 32' 46.19"

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SQS	N 33° 27' 49.90" W 90° 16' 38.40"	H	125.0	114.70	SQS	Not Used
		ESV: Bearing [True]: 303.0° to 350.0° Bearing [Mag]: 300.0° to 347.0°			Arc Distance: Out to 77.0 NM Altitude: 6500.0 to 23000.0 Ft.		
2	GQE	N 35° 20' 49.31" W 90° 28' 41.37"	L	211.0	113.00	GQE	Not Used
		ESV: Bearing [True]: 110.0° to 200.0° Bearing [Mag]: 106.0° to 196.0°			Arc Distance: Out to 62.0 NM Altitude: 3200.0 to 19000.0 Ft.		
3	HLI	N 34° 46' 12.95" W 89° 29' 47.39"	L	630.0	112.40	HLI	Not Used
		ESV: Bearing [True]: 246.0° to 288.0° Bearing [Mag]: 243.0° to 285.0°			Arc Distance: Out to 96.0 NM Altitude: 8500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 324.0° to 340.0° Bearing [Mag]: 321.0° to 337.0°			Arc Distance: Out to 75.0 NM Altitude: 7500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 290.0° to 328.0° Bearing [Mag]: 287.0° to 325.0°			Arc Distance: Out to 51.0 NM Altitude: 2500.0 to 18000.0 Ft.		
4	OTB	N 34° 13' 25.88" W 88° 47' 50.44"	L	363.7	109.80	OTB	Not Used
		ESV: Bearing [True]: 291.0° to 298.0° Bearing [Mag]: 287.0° to 294.0°			Arc Distance: Out to 71.0 NM Altitude: 3200.0 to 15000.0 Ft.		
		ESV: Bearing [True]: 345.0° to 37.0° Bearing [Mag]: 341.0° to 33.0°			Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 12000.0 Ft.		
		ESV: Bearing [True]: 312.0° to 11.0° Bearing [Mag]: 308.0° to 7.0°			Arc Distance: Out to 62.0 NM Altitude: 3500.0 to 12000.0 Ft.		
5	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L	388.7	116.80	DYR	Used
		ESV: Bearing [True]: 220.0° to 303.0° Bearing [Mag]: 217.0° to 300.0°			Arc Distance: Out to 58.0 NM Altitude: 4200.0 to 23000.0 Ft.		
		ESV: Bearing [True]: 223.0° to 245.0° Bearing [Mag]: 220.0° to 242.0°			Arc Distance: Out to 79.0 NM Altitude: 5000.0 to 21000.0 Ft.		
		ESV: Bearing [True]: 188.0° to 201.0° Bearing [Mag]: 185.0° to 198.0°			Arc Distance: Out to 62.0 NM Altitude: 3200.0 to 18000.0 Ft.		
		ESV: Bearing [True]: 180.0° to 210.0° Bearing [Mag]: 177.0° to 207.0°			Arc Distance: Out to 72.0 NM Altitude: 4500.0 to 16000.0 Ft.		
6	ARG	N 36° 6' 35.95" W 90° 57' 13.23"	H	260.0	114.50	ARG	Not Used
		ESV: Bearing [True]: 115.0° to 168.0° Bearing [Mag]: 111.0° to 164.0°			Arc Distance: Out to 69.0 NM Altitude: 4500.0 to 19000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
7	UJM	N 34° 34' 30.16" W 90° 40' 27.84"	L	240.8	109.60	UJM	Not Used
		Restriction:	Bearing [True]: 351.0° to 136.0° Bearing [Mag]: 350.0° to 135.0°		Distance: Beyond 25.0 NM Altitude: Below 2800.0 Ft.		
		ESV:	Bearing [True]: 15.0° to 90.0° Bearing [Mag]: 14.0° to 89.0°		Arc Distance: Out to 60.0 NM Altitude: 3500.0 to 18000.0 Ft.		
		ESV:	Bearing [True]: 50.0° to 70.0° Bearing [Mag]: 49.0° to 69.0°		Arc Distance: Out to 59.0 NM Altitude: 3000.0 to 17000.0 Ft.		
8	IGB	N 33° 29' 7.75" W 88° 30' 48.93"	L	240.1	116.20	IGB	Not Used
		ESV:	Bearing [True]: 265.0° to 301.0° Bearing [Mag]: 261.0° to 297.0°		Arc Distance: Out to 96.0 NM Altitude: 8500.0 to 23000.0 Ft.		
		ESV:	Bearing [True]: 260.0° to 319.0° Bearing [Mag]: 256.0° to 315.0°		Arc Distance: Out to 98.0 NM Altitude: 8500.0 to 23000.0 Ft.		
9	MEI	N 32° 22' 42.43" W 88° 48' 15.31"	H	578.1	117.00	MEI	Not Used
		ESV:	Bearing [True]: 305.0° to 318.0° Bearing [Mag]: 300.0° to 313.0°		Arc Distance: Out to 109.0 NM Altitude: 12000.0 to 25000.0 Ft.		
10	HAB	N 34° 11' 55.57" W 88° 0' 41.83"	L	802.1	110.40	HAB	Not Used
		ESV:	Bearing [True]: 315.0° to 358.0° Bearing [Mag]: 313.0° to 356.0°		Arc Distance: Out to 73.0 NM Altitude: 10000.0 to 15000.0 Ft.		
11	MSL	N 34° 42' 24.68" W 87° 29' 29.70"	L	579.7	116.50	MSL	Not Used
		Restriction:	Bearing [True]: 47.0° to 85.0° Bearing [Mag]: 46.0° to 84.0°		Distance: Beyond 25.0 NM Altitude: Below 2000.0 Ft.		
		ESV:	Bearing [True]: 236.0° to 281.0° Bearing [Mag]: 235.0° to 280.0°		Arc Distance: Out to 90.0 NM Altitude: 7500.0 to 21000.0 Ft.		
		ESV:	Bearing [True]: 296.0° to 350.0° Bearing [Mag]: 295.0° to 349.0°		Arc Distance: Out to 82.0 NM Altitude: 12000.0 to 21000.0 Ft.		
12	JKS	N 35° 35' 56.36" W 88° 21' 31.96"	L	630.0	109.40	JKS	Used
		ESV:	Bearing [True]: 236.0° to 245.0° Bearing [Mag]: 234.0° to 243.0°		Arc Distance: Out to 73.0 NM Altitude: 4800.0 to 18000.0 Ft.		
		ESV:	Bearing [True]: 176.0° to 235.0° Bearing [Mag]: 174.0° to 233.0°		Arc Distance: Out to 84.0 NM Altitude: 6200.0 to 19000.0 Ft.		

DME/DME (Continued.)

Return To Summary

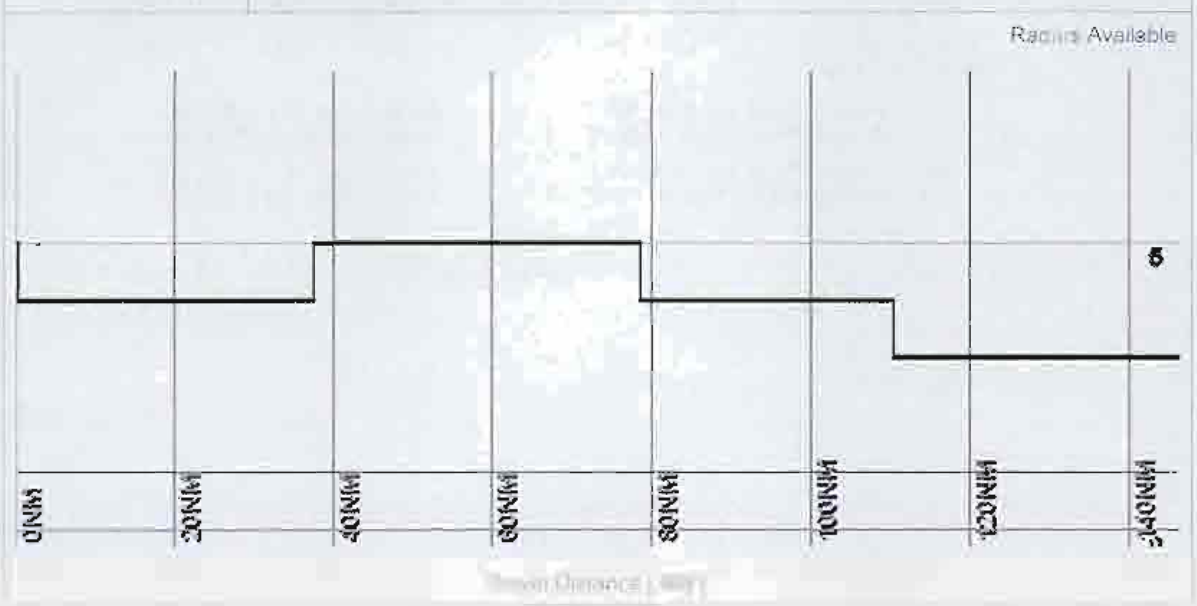
User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
13	MAW	N 36° 33' 18.41" W 89° 64' 41.12"	L	280.0	111.20	MAW	Not Used
		ESV:	Bearing [True]: 187.0° to 207.0° Bearing [Mag]: 184.0° to 204.0°		Arc Distance: Out to 86.0 NM Altitude: 4000.0 to 16000.0 Ft.		
		ESV:	Bearing [True]: 146.0° to 183.0° Bearing [Mag]: 143.0° to 180.0°		Arc Distance: Out to 59.0 NM Altitude: 7000.0 to 23000.0 Ft.		

Radar Analysis

Return To Summary

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



Name:	MILLERJ
Project Name:	MEM LTOWN6 PXV SPKER 20120125
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	1/25/2012 12:12:32 PM
Input File:	KMEM LTOWN6 PXV SPKE
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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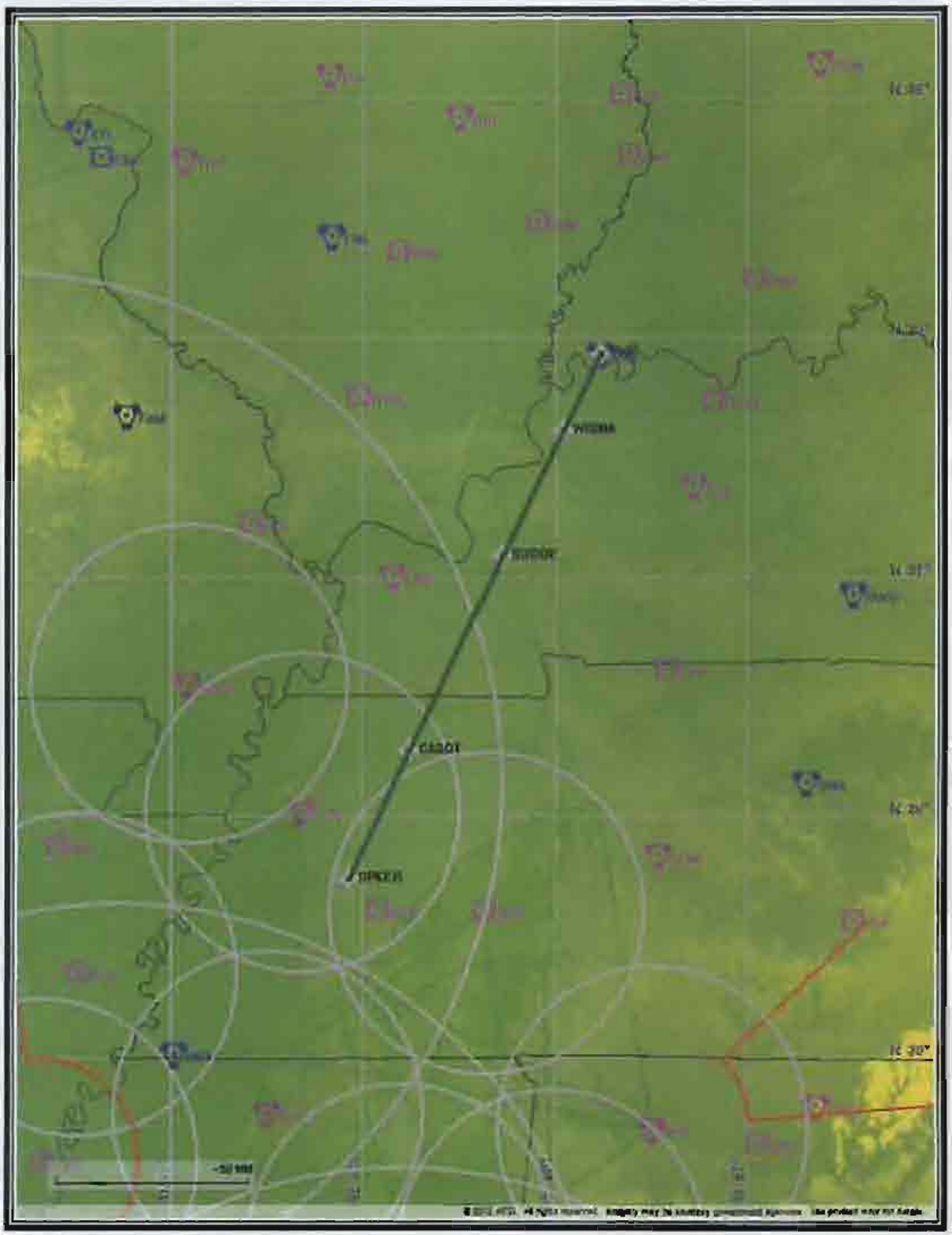


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
PXV	WP	N 37° 55' 41.95" W 87° 45' 44.56"	24000.0	Step	250.0	Fly By	TF
WISNA	WP	N 37° 36' 28.29" W 87° 57' 30.25"	18000.0	Step	250.0	Fly By	TF
SUDOE	WP	N 37° 5' 13.36" W 88° 16' 22.76"	18000.0	Step	250.0	Fly By	TF
CASOT	WP	N 36° 16' 25.19" W 88° 45' 17.17"	18000.0	Step	250.0	Fly By	TF
SPKER	WP	N 35° 43' 50.25" W 89° 4' 12.82"	10000.0	Step	250.0	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 **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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

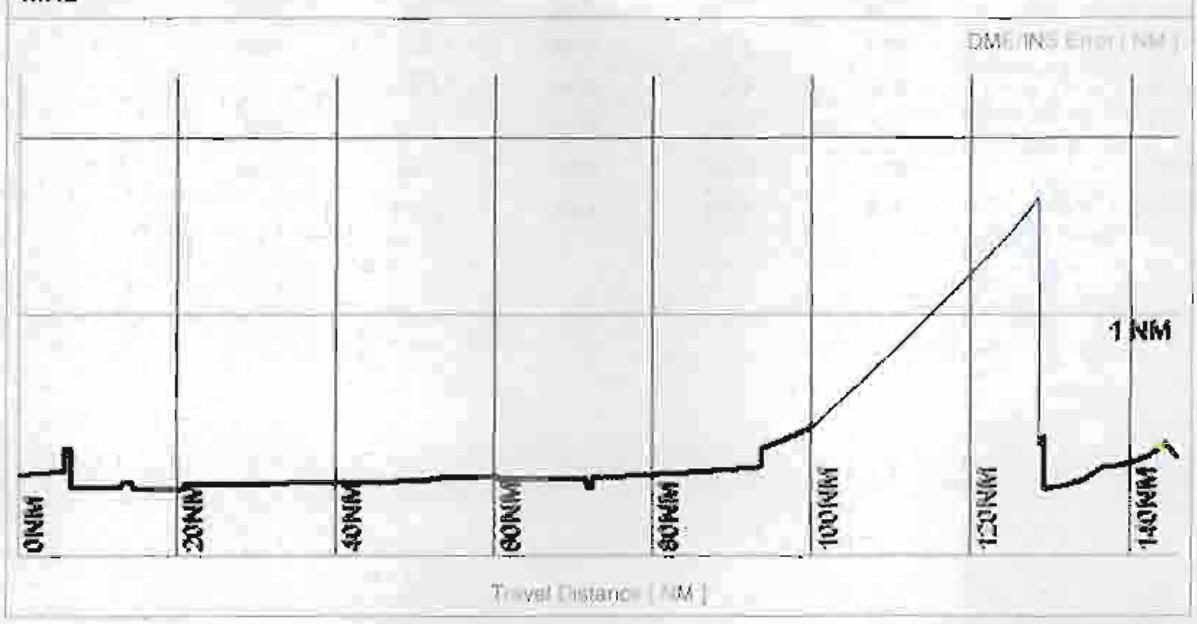
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 12

Maximum DME Error: 1.482 NM.

No Critical DMEs were found.

Available DMEs: AXC, BNA, BWG, ENL, FAM, IIU, TTH, PXV, CCT, CNG, DYR, MEM, JKS, MKL



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	1.482	Enabled	15.1 %	16.0 %
2	TTH	N 39° 29' 20.19" W 87° 14' 56.47"	H	Database	NO	1.482	Enabled	3.4 %	3.8 %
3	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	Database	NO	1.482	Enabled	0.6 %	0.6 %
4	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	Database	NO	1.482	Enabled	0.6 %	0.6 %
5	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	1.541	Enabled	53.6 %	56.3 %
6	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	1.482	Enabled	14.6 %	15.3 %
7	CCT	N 37° 22' 56.71" W 87° 15' 49.32"	L	Database	NO	1.482	Enabled	4.3 %	4.5 %
8	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	1.519	Enabled	12.1 %	12.7 %
9	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H	Database	NO	1.482	Enabled	25.8 %	27.1 %
10	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L + ESV	User	NO	1.505	Enabled	8.1 %	6.5 %
11	JKS	N 35° 35' 56.36" W 88° 21' 31.96"	L + ESV	User	NO	1.505	Enabled	8.6 %	6.9 %
12	MKL	N 35° 36' 12.83" W 88° 54' 37.55"	T	Database	NO	1.482	Enabled	13.1 %	10.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	ENL	TTH	AXC	IIU	PXV	FAM
11.1	ENL	CCT	BWG	IIU	PXV	TTH
21.3	ENL	CCT	BWG	PXV		
31.4	ENL	CNG	BWG	PXV	BNA	
56.0	ENL	CNG	BWG	PXV	BNA	DYR
110.0	JKS	DYR	MKL	MEM		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 36° 25' 29.89" W 88° 39' 57.69"	N 35° 59' 42.32" W 88° 55' 2.00"	28.5
	VOR: CNG	Available from N 36° 25' 29.89" W 88° 39' 57.69" to N 36° 20' 59.41" W 88° 42' 36.52"	
	VOR: DYR	Available from N 36° 25' 29.89" W 88° 39' 57.69" to N 35° 59' 42.32" W 88° 55' 2.00"	
	VOR: MKL	Available from N 36° 15' 35.51" W 88° 45' 46.21" to N 35° 59' 42.32" W 88° 55' 2.00"	
	VOR: JKS	Available from N 36° 8' 42.82" W 88° 49' 47.35" to N 35° 59' 42.32" W 88° 55' 2.00"	

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SQS	N 33° 27' 49.90" W 90° 16' 38.40"	H	125.0	114.70	SQS	Not Used
		ESV: Bearing [True]: 303.0° to 350.0° Bearing [Mag]: 300.0° to 347.0°			Arc Distance: Out to 77.0 NM Altitude: 6500.0 to 23000.0 Ft.		
2	GQE	N 35° 20' 49.31" W 90° 28' 41.37"	L	211.0	113.00	GQE	Not Used
		ESV: Bearing [True]: 110.0° to 200.0° Bearing [Mag]: 106.0° to 196.0°			Arc Distance: Out to 62.0 NM Altitude: 3200.0 to 19000.0 Ft.		
3	HLI	N 34° 46' 12.95" W 89° 29' 47.39"	L	630.0	112.40	HLI	Not Used
		ESV: Bearing [True]: 246.0° to 288.0° Bearing [Mag]: 243.0° to 285.0°			Arc Distance: Out to 96.0 NM Altitude: 8500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 324.0° to 340.0° Bearing [Mag]: 321.0° to 337.0°			Arc Distance: Out to 75.0 NM Altitude: 7500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 290.0° to 328.0° Bearing [Mag]: 287.0° to 325.0°			Arc Distance: Out to 51.0 NM Altitude: 2500.0 to 18000.0 Ft.		
4	OTB	N 34° 13' 25.88" W 88° 47' 50.44"	L	363.7	109.80	OTB	Not Used
		ESV: Bearing [True]: 291.0° to 298.0° Bearing [Mag]: 287.0° to 294.0°			Arc Distance: Out to 71.0 NM Altitude: 3200.0 to 15000.0 Ft.		
		ESV: Bearing [True]: 345.0° to 37.0° Bearing [Mag]: 341.0° to 33.0°			Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 12000.0 Ft.		
		ESV: Bearing [True]: 312.0° to 11.0° Bearing [Mag]: 308.0° to 7.0°			Arc Distance: Out to 62.0 NM Altitude: 3500.0 to 12000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L	388.7	116.80	DYR	Used
		ESV:	Bearing [True]: 220.0° to 303.0° Bearing [Mag]: 217.0° to 300.0°		Arc Distance: Out to 58.0 NM Altitude: 4200.0 to 23000.0 Ft.		
		ESV:	Bearing [True]: 223.0° to 245.0° Bearing [Mag]: 220.0° to 242.0°		Arc Distance: Out to 79.0 NM Altitude: 5000.0 to 21000.0 Ft.		
		ESV:	Bearing [True]: 188.0° to 201.0° Bearing [Mag]: 185.0° to 198.0°		Arc Distance: Out to 62.0 NM Altitude: 3200.0 to 18000.0 Ft.		
		ESV:	Bearing [True]: 180.0° to 210.0° Bearing [Mag]: 177.0° to 207.0°		Arc Distance: Out to 72.0 NM Altitude: 4500.0 to 16000.0 Ft.		
6	ARG	N 36° 6' 35.95" W 90° 57' 13.23"	H	260.0	114.50	ARG	Not Used
		ESV:	Bearing [True]: 115.0° to 168.0° Bearing [Mag]: 111.0° to 164.0°		Arc Distance: Out to 69.0 NM Altitude: 4500.0 to 19000.0 Ft.		
7	UJM	N 34° 34' 30.16" W 90° 40' 27.84"	L	240.8	109.60	UJM	Not Used
		Restriction:	Bearing [True]: 351.0° to 136.0° Bearing [Mag]: 350.0° to 135.0°		Distance: Beyond 25.0 NM Altitude: Below 2800.0 Ft.		
		ESV:	Bearing [True]: 15.0° to 90.0° Bearing [Mag]: 14.0° to 89.0°		Arc Distance: Out to 60.0 NM Altitude: 3500.0 to 18000.0 Ft.		
		ESV:	Bearing [True]: 50.0° to 70.0° Bearing [Mag]: 49.0° to 69.0°		Arc Distance: Out to 59.0 NM Altitude: 3000.0 to 17000.0 Ft.		
8	IGB	N 33° 29' 7.75" W 88° 30' 48.93"	L	240.1	116.20	IGB	Not Used
		ESV:	Bearing [True]: 265.0° to 301.0° Bearing [Mag]: 261.0° to 297.0°		Arc Distance: Out to 96.0 NM Altitude: 8500.0 to 23000.0 Ft.		
		ESV:	Bearing [True]: 260.0° to 319.0° Bearing [Mag]: 256.0° to 315.0°		Arc Distance: Out to 98.0 NM Altitude: 8500.0 to 23000.0 Ft.		
9	MEI	N 32° 22' 42.43" W 88° 48' 15.31"	H	578.1	117.00	MEI	Not Used
		ESV:	Bearing [True]: 305.0° to 318.0° Bearing [Mag]: 300.0° to 313.0°		Arc Distance: Out to 109.0 NM Altitude: 12000.0 to 25000.0 Ft.		
10	HAB	N 34° 11' 55.57" W 88° 0' 41.83"	L	802.1	110.40	HAB	Not Used
		ESV:	Bearing [True]: 315.0° to 358.0° Bearing [Mag]: 313.0° to 356.0°		Arc Distance: Out to 73.0 NM Altitude: 10000.0 to 15000.0 Ft.		

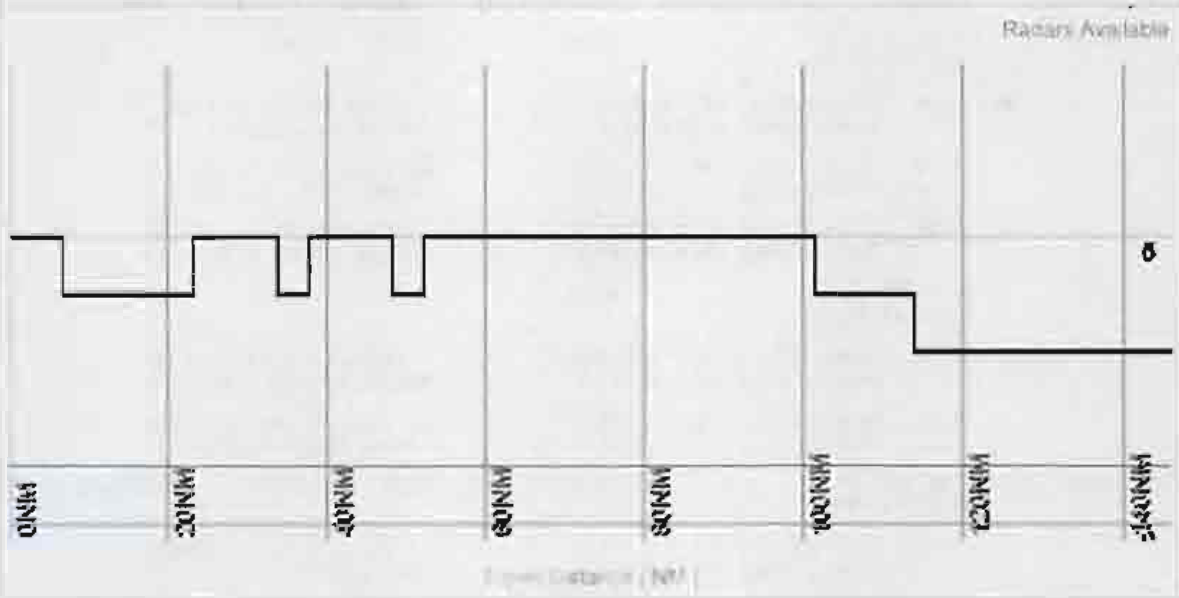
DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
11	MSL	N 34° 42' 24.68" W 87° 29' 29.70"	L	579.7	116.50	MSL	Not Used
		Restriction:	Bearing [True]: 47.0° to 85.0° Bearing [Mag]: 46.0° to 84.0°		Distance: Beyond 25.0 NM Altitude: Below 2000.0 Ft.		
		ESV:	Bearing [True]: 236.0° to 281.0° Bearing [Mag]: 235.0° to 280.0°		Arc Distance: Out to 90.0 NM Altitude: 7500.0 to 21000.0 Ft.		
		ESV:	Bearing [True]: 296.0° to 350.0° Bearing [Mag]: 295.0° to 349.0°		Arc Distance: Out to 82.0 NM Altitude: 12000.0 to 21000.0 Ft.		
12	JKS	N 35° 35' 56.36" W 88° 21' 31.96"	L	630.0	109.40	JKS	Used
		ESV:	Bearing [True]: 236.0° to 245.0° Bearing [Mag]: 234.0° to 243.0°		Arc Distance: Out to 73.0 NM Altitude: 4800.0 to 18000.0 Ft.		
		ESV:	Bearing [True]: 176.0° to 235.0° Bearing [Mag]: 174.0° to 233.0°		Arc Distance: Out to 84.0 NM Altitude: 6200.0 to 19000.0 Ft.		
13	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	280.0	111.20	MAW	Not Used
		ESV:	Bearing [True]: 187.0° to 207.0° Bearing [Mag]: 184.0° to 204.0°		Arc Distance: Out to 86.0 NM Altitude: 4000.0 to 16000.0 Ft.		
		ESV:	Bearing [True]: 146.0° to 183.0° Bearing [Mag]: 143.0° to 180.0°		Arc Distance: Out to 59.0 NM Altitude: 7000.0 to 23000.0 Ft.		

Radar Analysis

Return To Summary

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