Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 04/23/2012	Task #: 2012042328584204001	Request #: 20120423285842
Procedure: SID AZONE (RNAV) TWO MEMPHIS TN KMEM		Airport ID: KMEM	Airport: MEMPHIS INTL		Reimbursable #:
City: MEMPHIS	ST: TN	GPS #:		Estimated Chart Date: 03/07/2013	FICO #: 1095597
Fac ID:	Fac. Type: Proc D	Specialist: PETER GUIMOND			

Procedure Review

DME / DME

21

	Rec'd	Rel'd	Full Name	Comments
Lead:	08/16/2012	09/19/2012	MARLON ROBINSON	
QA:	09/19/2012	10/09/2012	STEVEN SZUKALA	
Liaison:	10/09/2012		Spurlin	RESUBMIT 10/24/12 - DME-DME - REQUEST POSSIBLE TABLE TOP EVALUATION

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

Ag 1 of 1

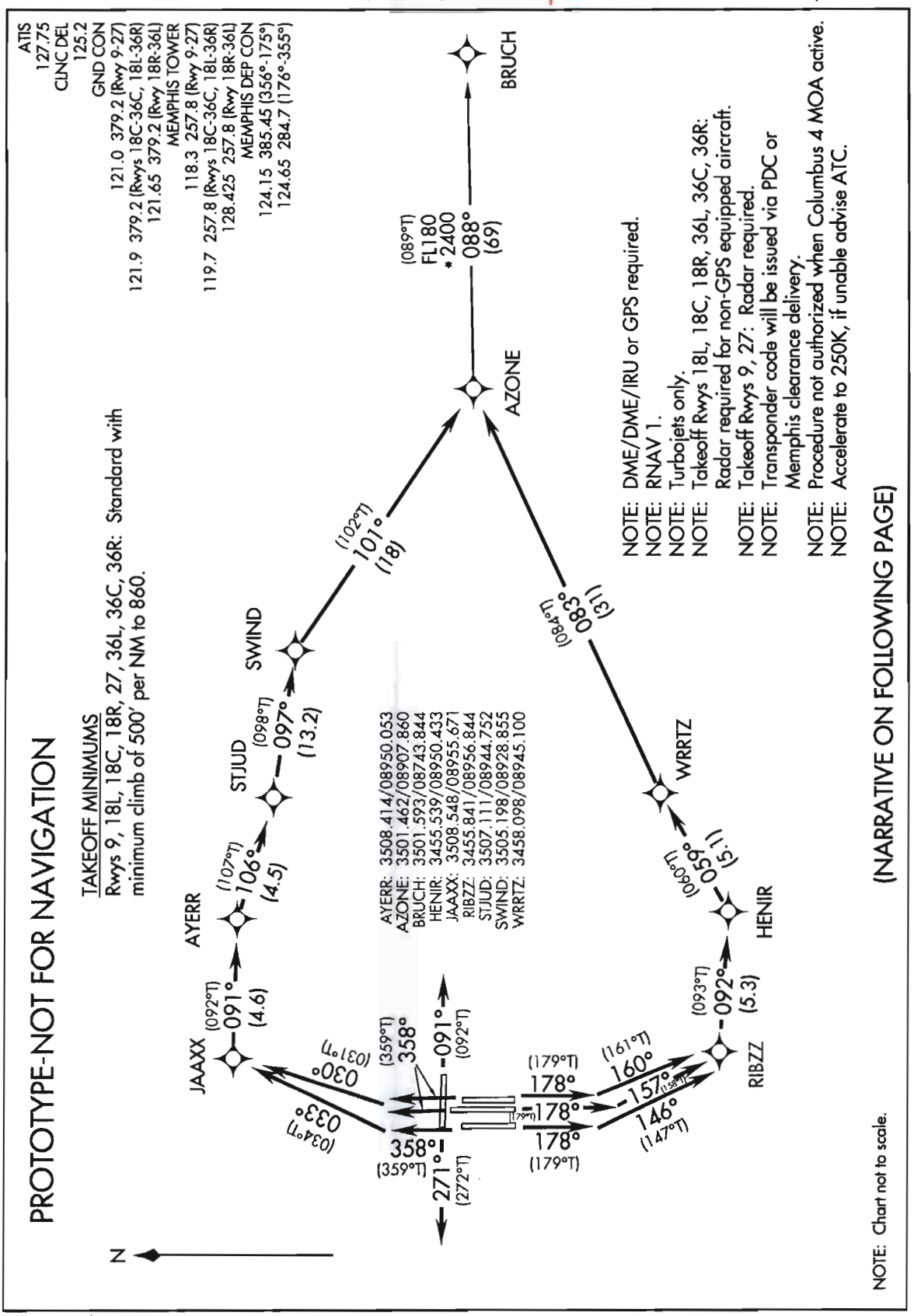
MEMPHIS, TX MEMPHIS INTL (KMEM) AZONE TWO (RNAV) (SID) ENROUTE-YES FC: 1.8.13 PUB: 3.7.13

ATTACHED FORMS: 8260-15B; 8260-15C; 8260-2(S): RIBZZ, REV 1.
FLCK NOTE: THE ONLY CHANGES TO THE PROCEDURE ARE EDITORIAL. INITIAL CLIMB TO ALTITUDE WAS CHANGED FROM 7000 TO 5000 TO CORRECT A TYPO AND THE FIX NAME WSTIN WAS CHANGED TO RIBZZ.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

NEW

AZONE TWO DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 091°, expect vectors to AZONE, thence. . . .
TAKEOFF RWY 18L: Climb heading 178° to intercept course 160° to RIBZZ, then on depicted route to AZONE, thence. . . .
TAKEOFF RWY 18C: Climb heading 178° to intercept course 157° to RIBZZ, then on depicted route to AZONE, thence. . . .
TAKEOFF RWY 18R: Climb heading 178° to intercept course 146° to RIBZZ, then on depicted route to AZONE, thence. . . .
TAKEOFF RWY 27: Climb heading 271°, expect vectors to AZONE, thence. . . .
TAKEOFF RWY 36L: Climb heading 358° to intercept course 033° to JAAXX, then on depicted route to AZONE, thence. . . .
TAKEOFF RWY 36C: Climb heading 358° to intercept course 030° to JAAXX, then on depicted route to AZONE, thence. . . .
TAKEOFF RWY 36R: Climb heading 358° to intercept course 030° to JAAXX, then on depicted route to AZONE, thence. . . .

. . . .Maintain 5000. Expect clearance to filed altitude within ten (10) minutes after departure.

BRUCH TRANSITION (AZONE2.BRUCH)

TAKEOFF OBSTACLE NOTES

Rwy 9: Numerous trees and light pole beginning 1498′ from DER, 800′ left of centerline, up to 100′ AGL/409′ MSL. Numerous trees beginning 2193′ from DER, 912′ right of centerline, up to 100′ AGL/419′ MSL.
Rwy 18L: Numerous trees beginning 1218′ from DER, 693′ left of centerline, up to 100′ AGL/459′ MSL.
Rwy 18C: Numerous trees beginning 1430′ from DER, 831′ right of centerline, up to 100′ AGL/459′ MSL.
Rwy 18R: Pole, VORTAC, and numerous trees beginning 1904′ from DER, 986′ left of centerline, up to 100′ AGL/449′ MSL. Numerous trees beginning 1272′ from DER, 684′ right of centerline, up to 100′ AGL/459′ MSL.
Rwy 27: Numerous trees beginning 2218′ from DER, 875′ left of centerline, up to 100′ AGL/361′ MSL. Numerous trees beginning 785′ from DER, 682′ right of centerline, up to 100′ AGL/349′ MSL.
Rwy 36C: Light pole 1949′ from DER, 928′ right of centerline, 77′ AGL/336′ MSL.

PROTOTYPE-NOT FOR NAVIGATION

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.: 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 : HOLLY SPRINGS	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 : TUPELO	City : TUPELO	Ident : OTB	State : MS
Type/Class : DME	Frequency : M996	Reference No.: 11075885	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 892132-015	287	294	71	32	150

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 892132-015	287	294	71	32	150	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 892132-015	287	294	71	32	150	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: 07/20/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-015	287	294				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : TUPELO	City : TUPELO	Ident : OTB	State : MS
Type/Class : DME	Frequency : M996	Reference No.: 11075886	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 892132-016	341	33	64	100	230

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 892132-016	341	33	64	100	120	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENRestricted. COCHANNEL INTERFERENCE MAX ALT FL=120

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/20/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-016	341	33	64	100	120	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENRestricted. COCHANNEL INTERFERENCE MAX ALT FL=120

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/20/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-016	341	33	64	100	120	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENRestricted. COCHANNEL INTERFERENCE MAX ALT FL=120

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/20/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-016	341	33	64	100	120	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENRestricted. COCHANNEL INTERFERENCE MAX ALT FL=120

Signature: CHRISTEIN THOMAS		Routing Symbol:			Date: 07/20/2011	
Expanded Service Volume Data: (FIFO)						
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-016	341	33				
Requirement/Remarks:						
Signature:		Routing Symbol:			Date:	

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : TUPELO	City : TUPELO	Ident : OTB	State : MS
Type/Class : DME	Frequency : M996	Reference No.: 11075887	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 892132-017	308	7	62	35	210

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 892132-017	308	7	62	35	120	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENRestricted. COCHANNEL INTERFERENCE MAX ALT FL=120

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/20/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-017	308	7	62	35	120	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENRestricted. COCHANNEL INTERFERENCE MAX ALT FL=120

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/20/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-017	308	7	62	35	120	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENRestricted. COCHANNEL INTERFERENCE MAX ALT FL=120

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/20/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-017	308	7	62	35	120	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKNG BINKY CASLN CHLDR CRSON DUCKZ GENRestricted. COCHANNEL INTERFERENCE MAX ALT FL=120

Signature: CHRISTEIN THOMAS		Routing Symbol:			Date: 07/20/2011	
Expanded Service Volume Data: (FIFO)						
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 892132-017	308	7				
Requirement/Remarks:						
Signature:		Routing Symbol:			Date:	

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.: 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 : DYERSBURG	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 : DYERSBURG	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 : DYERSBURG	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 : 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 : HAMILTON	City : HAMILTON	Ident : HAB	State : AL
Type/Class : TACR	Frequency : M1002	Reference No.: 11075808	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 701833-011	313	356	73	100	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 701833-011	313	356	73	100	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: 07/13/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701833-011	313	356	73	100	150	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GERestricted. COCHANNEL INTERFERENCE FROM MWA MAX ALT FL=150

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

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701833-011	313	356	73	100	150	RESTRICT

Requirement/Remarks: DME DME COVERAGE FOR AUTMN AZONE BBKING BINKY CASLN CHLDR CRSON DUCKZ GERestricted. COCHANNEL INTERFERENCE FROM MWA MAX ALT FL=150

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 701833-011	313	356				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MUSCLE SHOALS	City : MUSCLE SHOALS	Ident : MSL	State : AL
Type/Class : TACR	Frequency : M1199	Reference No.: 11075809	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704237-019	235	280	90	75	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 704237-019	235	280	90	75	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: 07/13/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704237-019	235	280	90	75	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 704237-019	235	280				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MUSCLE SHOALS	City : MUSCLE SHOALS	Ident : MSL	State : AL
Type/Class : TACR	Frequency : M1199	Reference No.: 11075810	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704237-020	295	349	82	120	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 704237-020	295	349	82	120	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: 07/13/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704237-020	295	349	82	120	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 704237-020	295	349				

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:

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE	**TWO**	**AZONE2.AZONE**	**ONE**	**05 APR 12**	

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 9: CLIMB HEADING 090.95, EXPECT VECTORS TO AZONE, THENCE...
TAKEOFF RWY 18L: CLIMB HEADING 178.00 TO INTERCEPT COURSE 159.98 TO RIBZZ, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
TAKEOFF RWY 18C: CLIMB HEADING 178.01 TO INTERCEPT COURSE 156.91 TO RIBZZ, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
TAKEOFF RWY 18R: CLIMB HEADING 177.99 TO INTERCEPT COURSE 145.95 TO RIBZZ, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
TAKEOFF RWY 27: CLIMB HEADING 270.97, EXPECT VECTORS TO AZONE, THENCE...
TAKEOFF RWY 36L: CLIMB HEADING 357.99 TO INTERCEPT COURSE 032.98 TO JAAXX, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
TAKEOFF RWY 36C: CLIMB HEADING 358.01 TO INTERCEPT COURSE 029.99 TO JAAXX, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
TAKEOFF RWY 36R: CLIMB HEADING 358.00 TO INTERCEPT COURSE 029.98 TO JAAXX, THEN ON DEPICTED ROUTE TO AZONE, THENCE...

... MAINTAIN 5000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
BRUCH	AZONE2.BRUCH	AZONE	BRUCH	TRACK 088.49	69.00	18000	2400	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED. **NOTE:** RNAV 1. **NOTE:** TURBOJETS ONLY.
NOTE: TAKEOFF RWY 18L, 18C, 18R, 36L, 36C, 36R - RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: TAKEOFF RWY 9, 27 – RADAR REQUIRED.
NOTE: TRANSPONDER CODE WILL BE ISSUED VIA PDC OR MEMPHIS CLEARANCE DELIVERY.
NOTE: PROCEDURE NOT AUTHORIZED WHEN COLUMBUS 4 MOA ACTIVE.
NOTE: ACCELERATE TO 250 KIAS, IF UNABLE ADVISE ATC.
TAKEOFF MINIMUMS:
RWY 9, 18L, 18C, 18R, 27, 36L, 36C, 36R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 860.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 9, NUMEROUS TREES AND LIGHT POLE BEGINNING 1498 FT FROM DER, 800 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/409 FT MSL. NUMEROUS TREES BEGINNING 2193 FT FROM DER, 912 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/419 FT MSL.
NOTE: RWY 18L, NUMEROUS TREES BEGINNING 1218 FT FROM DER, 693 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/459 FT MSL.
NOTE: RWY 18C, NUMEROUS TREES BEGINNING 1430 FT FROM DER, 831 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/459 FT MSL.
NOTE: RWY 18R, POLE, VORTAC, AND NUMEROUS TREES BEGINNING 1904 FT FROM DER, 986 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/449 FT MSL. NUMEROUS TREES BEGINNING 1272 FT FROM DER, 684 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/459 FT MSL.
NOTE: RWY 27, NUMEROUS TREES BEGINNING 2218 FT FROM DER, 875 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/361 FT MSL. NUMEROUS TREES BEGINNING 785 FT FROM DER, 682 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/349 FT MSL.
NOTE: RWY 36C, LIGHT POLE 1949 FT FROM DER, 928 FT RIGHT OF CENTERLINE, 77 FT AGL/336 FT MSL.

QUALITY 3 CHECKED

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE	**TWO**	**AZONE2.AZONE**	**ONE**	**05 APR 12**	

CONTROLLING OBSTACLES:

RWY 36L: 624 FT MSL ATCT 350258.68N/0895853.69W. **RWY 36C:** 624 FT MSL ATCT 350258.68N/0895853.69W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KMEM 1E EPOCH YEAR: 2000. DME/DME ASSESSMENT: SAT (RNP 2.0)
PILOT NAVIGATION AREA:
10 NM ARC CENTERED ON AZONE (IF), CW
FROM: POINT A (BEARING 043 TO AZONE)
TO: POINT B (BEARING 133 TO AZONE)
MINIMUM ALTITUDE - 9000

AIRPORTS SERVED:

MEMPHIS INTL — MEMPHIS, TN

COMMUNICATIONS:

ATIS, CLEARANCE DEL, GROUND CONTROL, TOWER, DEP CON

FIXES AND/OR NAVAIDS:

HENIR, WRRTZ, AYERR, STJUD, SWIND

QUALITY 3 CHECKED

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE	**TWO**	**AZONE2.AZONE**	**ONE**	**05 APR 12**	

REMARKS:

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

PETER GUIMOND AJV-352 09/15/2012

APPROVED BY:

SUSAN CRUMB AJV-352

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ZME, MEM APP CON, MEM ATCT, ARPT MGR

CHANGES:

1. CHANGED ALL INSTANCES OF WSTIN TO READ RIBZZ.
2. AMENDED INITIAL CLIMB TO ALTITUDE IN DP ROUTE FROM 7000 TO 5000.

REASONS:

1. EASTERN FPT REQUEST. ATC REPORTED INSTANCES OF PILOT CONFUSION BECAUSE WSTIN IS LOCATED ON EAST SIDE OF AIRPORT.
2. CORRECTS TYPO AND CANCELS FDC 2/1202.

QUALITY 3 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE	TWO	AZONE2.AZONE	ONE	05 APR 12	

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW09 (AER)	350331.04N/0895908.63W	N	-	-	-	-			
		-	-	VM	091.95	-			CG 500 FT/NM TO 860
AZONE	350127.70N/0890751.62W	Y	FB	DF	-	-			
RW18L (AER)	350255.74N/0895822.63W	N	-	-	-	-			
	345919.35N/0895818.05W	-	-	VI	179.00	3.60			CG 500 FT/NM TO 860. VI/CF PERMITTED.
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	160.98	3.68			RECOMMENDED NAVAID: MEM VORTAC
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28			
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07			
AZONE	350127.70N/0890751.62W	Y	FB	TF	083.56	30.78			
RW18C (AER)	350316.54N/0895834.21W	N	-	-	-	-			
	345910.18N/0895829.04W	-	-	VI	179.01	4.10			CG 500 FT/NM TO 860. VI/CF PERMITTED.
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	157.91	3.59			RECOMMENDED NAVAID: MEM VORTAC
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28			
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07			
AZONE	350127.70N/0890751.62W	Y	FB	TF	083.56	30.78			
RW18R (AER)	350258.16N/0895914.79W	N	-	-	-	-			
	345846.15N/0895909.39W	-	-	VI	178.99	4.19			CG 500 FT/NM TO 860. VI/CF PERMITTED.
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	146.95	3.49			RECOMMENDED NAVAID: MEM VORTAC
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28			
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07			
AZONE	350127.70N/0890751.62W	Y	FB	TF	083.56	30.78			
RW27 (AER)	350328.01N/0895721.08W	N	-	-	-	-			
		-	-	VM	271.97	-			CG 500 FT/NM TO 860
AZONE	350127.70N/0890751.62W	Y	FB	DF	-	-			

QUALITY 3 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE	TWO	AZONE2.AZONE	ONE	05 APR 12	

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW36L (AER)	350125.98N/0895912.81W	N	-	-	-	-			
	350409.66N/0895916.32W	-	-	VI	358.99	2.72			CG 500 FT/NM TO 860. VI/CF PERMITTED.
JAAXX	350832.89N/0895540.25W	Y	FB	CF	033.98	5.28			RECOMMENDED NAVAID: MEM VORTAC
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61			
STJUD	350706.68N/0894445.11W	Y	FB	TF	106.62	4.54			
SWIND	350511.90N/0892851.31W	Y	FB	TF	098.25	13.18			
AZONE	350127.70N/0890751.62W	Y	FB	TF	102.11	17.64			
RW36C (AER)	350126.58N/0895831.90W	N	-	-	-	-			
	350432.85N/0895835.81W	-	-	VI	359.01	3.10			CG 500 FT/NM TO 860. VI/CF PERMITTED.
JAAXX	350832.89N/0895540.25W	Y	FB	CF	030.99	4.66			RECOMMENDED NAVAID: MEM VORTAC
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61			
STJUD	350706.68N/0894445.11W	Y	FB	TF	106.62	4.54			
SWIND	350511.90N/0892851.31W	Y	FB	TF	098.25	13.18			
AZONE	350127.70N/0890751.62W	Y	FB	TF	102.11	17.64			
RW36R (AER)	350126.74N/0895820.75W	N	-	-	-	-			
	350447.50N/0895825.00W	-	-	VI	359.00	3.34			CG 500 FT/NM TO 860. VI/CF PERMITTED.
JAAXX	350832.89N/0895540.25W	Y	FB	CF	030.98	4.38			RECOMMENDED NAVAID: MEM VORTAC
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61			
STJUD	350706.68N/0894445.11W	Y	FB	TF	106.62	4.54			
SWIND	350511.90N/0892851.31W	Y	FB	TF	098.25	13.18			
AZONE	350127.70N/0890751.62W	Y	FB	TF	102.11	17.64			
AZONE	350127.70N/0890751.62W	Y	-	IF	-	-			AZONE2.BRUCH
BRUCH	350135.60N/0874350.63W	Y	FB	TF	089.49	69.00			

QUALITY CHECKED 3

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE (RNAV)	TWO	AZONE2.AZONE	ONE	05 APR 12	

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        MEM   K7011750VTHW N35005442W089585955    N35005442W089585955E0010003602     NARMEMPHIS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   AYERR K70    W     N35082481W089500318                     W0010     NAR           AYERR
        SUSAEAENRT   AZONE K70    W     N35012770W089075162                     W0015     NAR           AZONE
        SUSAEAENRT   BRUCH K70    W     N35013560W087435063                     W0025     NAR           BRUCH
        SUSAEAENRT   HENIR K70    W     N34553236W089502595                     W0010     NAR           HENIR
        SUSAEAENRT   JAAXX K70    W     N35083289W089554025                     W0009     NAR           JAAXX
        SUSAEAENRT   RIBZZ K70    W     N34555046W089565061                     W0009     NAR           RIBZZ
        SUSAEAENRT   STJUD K70    W     N35070668W089444511                     W0011     NAR           STJUD
        SUSAEAENRT   SWIND K70    W     N35051190W089285131                     W0013     NAR           SWIND
        SUSAEAENRT   WRRTZ K70    W     N34580590W089450599                     W0010     NAR           WRRTZ

                 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 KMEMK7DAZONE24RW09  010         0        VM                     0910                    18000
        SUSAP KMEMK7DAZONE24RW09  020AZONEK7EA0EE   010DF
        SUSAP KMEMK7DAZONE24RW18C 010         0        VI                     1780                    18000
        SUSAP KMEMK7DAZONE24RW18C 020RIBZZK7EA0E    010CF MEM K7      1597005415690036D
        SUSAP KMEMK7DAZONE24RW18C 030HENIRK7EA0E    010TF                     09220053
        SUSAP KMEMK7DAZONE24RW18C 040WRRTZK7EA0E    010TF                     05870051
        SUSAP KMEMK7DAZONE24RW18C 050AZONEK7EA0EE   010TF                     08260308
        SUSAP KMEMK7DAZONE24RW18L 010         0        VI                     1780                    18000
        SUSAP KMEMK7DAZONE24RW18L 020RIBZZK7EA0E    010CF MEM K7      1597005416000037D
        SUSAP KMEMK7DAZONE24RW18L 030HENIRK7EA0E    010TF                     09220053
        SUSAP KMEMK7DAZONE24RW18L 040WRRTZK7EA0E    010TF                     05870051
        SUSAP KMEMK7DAZONE24RW18L 050AZONEK7EA0EE   010TF                     08260308
        SUSAP KMEMK7DAZONE24RW18R 010         0        VI                     1780                    18000
        SUSAP KMEMK7DAZONE24RW18R 020RIBZZK7EA0E    010CF MEM K7      1597005414600035D
        SUSAP KMEMK7DAZONE24RW18R 030HENIRK7EA0E    010TF                     09220053
        SUSAP KMEMK7DAZONE24RW18R 040WRRTZK7EA0E    010TF                     05870051
        SUSAP KMEMK7DAZONE24RW18R 050AZONEK7EA0EE   010TF                     08260308
        SUSAP KMEMK7DAZONE24RW27  010         0        VM                     2710                    18000
```

QUALITY CHECKED 1

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE (RNAV)	TWO	AZONE2.AZONE	ONE	05 APR 12	

```
SUSAP KMEMK7DAZONE24RW27  020AZONEK7EA0EE   010DF
SUSAP KMEMK7DAZONE24RW36C 010         0       VI                    3580                    18000
SUSAP KMEMK7DAZONE24RW36C 020JAAXXK7EA0E    010CF MEM K7      0186008103000047D
SUSAP KMEMK7DAZONE24RW36C 030AYERRK7EA0E    010TF                    09060046
SUSAP KMEMK7DAZONE24RW36C 040STJUDK7EA0E    010TF                    10560045
SUSAP KMEMK7DAZONE24RW36C 050SWINDK7EA0E    010TF                    09730132
SUSAP KMEMK7DAZONE24RW36C 060AZONEK7EA0EE   010TF                    10110176
SUSAP KMEMK7DAZONE24RW36L 010         0       VI                    3580                    18000
SUSAP KMEMK7DAZONE24RW36L 020JAAXXK7EA0E    010CF MEM K7      0186008103300053D
SUSAP KMEMK7DAZONE24RW36L 030AYERRK7EA0E    010TF                    09060046
SUSAP KMEMK7DAZONE24RW36L 040STJUDK7EA0E    010TF                    10560045
SUSAP KMEMK7DAZONE24RW36L 050SWINDK7EA0E    010TF                    09730132
SUSAP KMEMK7DAZONE24RW36L 060AZONEK7EA0EE   010TF                    10110176
SUSAP KMEMK7DAZONE24RW36R 010         0       VI                    3580                    18000
SUSAP KMEMK7DAZONE24RW36R 020JAAXXK7EA0E    010CF MEM K7      0186008103000044D
SUSAP KMEMK7DAZONE24RW36R 030AYERRK7EA0E    010TF                    09060046
SUSAP KMEMK7DAZONE24RW36R 040STJUDK7EA0E    010TF                    10560045
SUSAP KMEMK7DAZONE24RW36R 050SWINDK7EA0E    010TF                    09730132
SUSAP KMEMK7DAZONE24RW36R 060AZONEK7EA0EE   010TF                    10110176
SUSAP KMEMK7DAZONE26BRUCH 010AZONEK7EA0E       IF                                            18000
SUSAP KMEMK7DAZONE26BRUCH 020BRUCHK7EA0EE   010TF                    08850690
```

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
SUSAP KMEMK7GRW09     0089460910 N35033104W089590863+0400    +0049800253000052150IIMEM1
SUSAP KMEMK7GRW18C    0111201780 N35031654W089583421+0600    +0055100271000054150IISDU1
SUSAP KMEMK7GRW18L    0090001780 N35025574W089582263+0600    +0057200278000060150IIEXS1
SUSAP KMEMK7GRW18R    0093201780 N35025816W089591479+0300    +0060100288000052150IIOOI1
SUSAP KMEMK7GRW27     0089462710 N35032801W089572108-0400    +0061600292000054150IIJIM1
SUSAP KMEMK7GRW36C    0111203580 N35012658W089583190-0600    +0076500341000060150IITSE3
SUSAP KMEMK7GRW36L    0093203580 N35012598W089591281-0300    +0070300321000059150IIOHN3
SUSAP KMEMK7GRW36R    0090003580 N35012674W089582075-0600    +0074600335000058150IIMYO3
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE (RNAV)	TWO	AZONE2.AZONE	ONE	05 APR 12	

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW09		010		VM		FB		091.0()			
	RW09	AZONE	020		DF		FB	1.0				
	RW18C		010		VI		FB		178.0()			
	RW18C	RIBZZ	020		CF		FB	1.0	156.9()	003.6		
	RW18C	HENIR	030		TF		FB	1.0	092.2()	005.3		
	RW18C	WRRTZ	040		TF		FB	1.0	058.7()	005.1		
	RW18C	AZONE	050		TF		FB	1.0	082.6()	030.8		
	RW18L		010		VI		FB		178.0()			
	RW18L	RIBZZ	020		CF		FB	1.0	160.0()	003.7		
	RW18L	HENIR	030		TF		FB	1.0	092.2()	005.3		
	RW18L	WRRTZ	040		TF		FB	1.0	058.7()	005.1		
	RW18L	AZONE	050		TF		FB	1.0	082.6()	030.8		
	RW18R		010		VI		FB		178.0()			
	RW18R	RIBZZ	020		CF		FB	1.0	146.0()	003.5		
	RW18R	HENIR	030		TF		FB	1.0	092.2()	005.3		
	RW18R	WRRTZ	040		TF		FB	1.0	058.7()	005.1		
	RW18R	AZONE	050		TF		FB	1.0	082.6()	030.8		
	RW27		010		VM		FB		271.0()			
	RW27	AZONE	020		DF		FB	1.0				
	RW36C		010		VI		FB		358.0()			
	RW36C	JAAXX	020		CF		FB	1.0	030.0()	004.7		
	RW36C	AYERR	030		TF		FB	1.0	090.6()	004.6		
	RW36C	STJUD	040		TF		FB	1.0	105.6()	004.5		
	RW36C	SWIND	050		TF		FB	1.0	097.3()	013.2		
	RW36C	AZONE	060		TF		FB	1.0	101.1()	017.6		
	RW36L		010		VI		FB		358.0()			
	RW36L	JAAXX	020		CF		FB	1.0	033.0()	005.3		
	RW36L	AYERR	030		TF		FB	1.0	090.6()	004.6		
	RW36L	STJUD	040		TF		FB	1.0	105.6()	004.5		
	RW36L	SWIND	050		TF		FB	1.0	097.3()	013.2		
	RW36L	AZONE	060		TF		FB	1.0	101.1()	017.6		
	RW36R		010		VI		FB		358.0()			
	RW36R	JAAXX	020		CF		FB	1.0	030.0()	004.4		
	RW36R	AYERR	030		TF		FB	1.0	090.6()	004.6		
	RW36R	STJUD	040		TF		FB	1.0	105.6()	004.5		
	RW36R	SWIND	050		TF		FB	1.0	097.3()	013.2		
	RW36R	AZONE	060		TF		FB	1.0	101.1()	017.6		
	BRUCH	AZONE	010		IF		FB					
	BRUCH	BRUCH	020		TF		FB	1.0	088.5()	069.0		

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

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
AZONE (RNAV)	TWO	AZONE2.AZONE	ONE	05 APR 12	

MEM	N350054.42	W0895859.55	N3500.907	W08958.993
AYERR	N350824.81	W0895003.18	N3508.414	W08950.053
AZONE	N350127.70	W0890751.62	N3501.462	W08907.860
BRUCH	N350135.60	W0874350.63	N3501.593	W08743.844
HENIR	N345532.36	W0895025.95	N3455.539	W08950.433
JAAXX	N350832.89	W0895540.25	N3508.548	W08955.671
RIBZZ	N345550.46	W0895650.61	N3455.841	W08956.844
STJUD	N350706.68	W0894445.11	N3507.111	W08944.752
SWIND	N350511.90	W0892851.31	N3505.198	W08928.855
WRRTZ	N345805.90	W0894505.99	N3458.098	W08945.100
RW09	N350331.04	W0895908.63	N3503.517	W08959.144
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
RW27	N350328.01	W0895721.08	N3503.467	W08957.351
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
RW09	00253	52
RW18C	00271	54
RW18L	00278	60
RW18R	00288	52
RW27	00292	54
RW36C	00341	60
RW36L	00321	59
RW36R	00335	58

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RIBZZ **STATE:** MS **COUNTRY:** US

LATITUDE/LONGITUDE: 345550.46N/0895650.61W **TYPE:** WP

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

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

REMARKS:
NAME CHANGED FROM WSTIN TO RIBBZ

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	AZONE (RNAV)			KMEM	MEMPHIS	TN (US)
DP	BBKNG (RNAV)			KMEM	MEMPHIS	TN (US)
DP	CRSON (RNAV)			KMEM	MEMPHIS	TN (US)
DP	GENEH (RNAV)			KMEM	MEMPHIS	TN (US)
DP	GMBUD (RNAV)			KMEM	MEMPHIS	TN (US)
DP	GOETZ (RNAV)			KMEM	MEMPHIS	TN (US)
DP	SELPH (RNAV)			KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 03/07/2013

REASON FOR REVISION:
CHANGED NAME FROM WSTIN TO RIBBZ

DEVELOPED BY: **DATE:** 09/11/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

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

QUALITY 3 CHECKED

Name:	DAVE COOK
Project Name:	KMEM AZONE SID
Output File:	KMEM AZONE SID RW18R BRUCH 20121023_1011
Procedure Name:	AZONE
Software:	RNAV-Pro™
Version:	2.36x
Date/Time:	10/23/2012 10:11:08 AM
Input File:	KMEM KMEM SID RW18R BRUCH 20121023_1000.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

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

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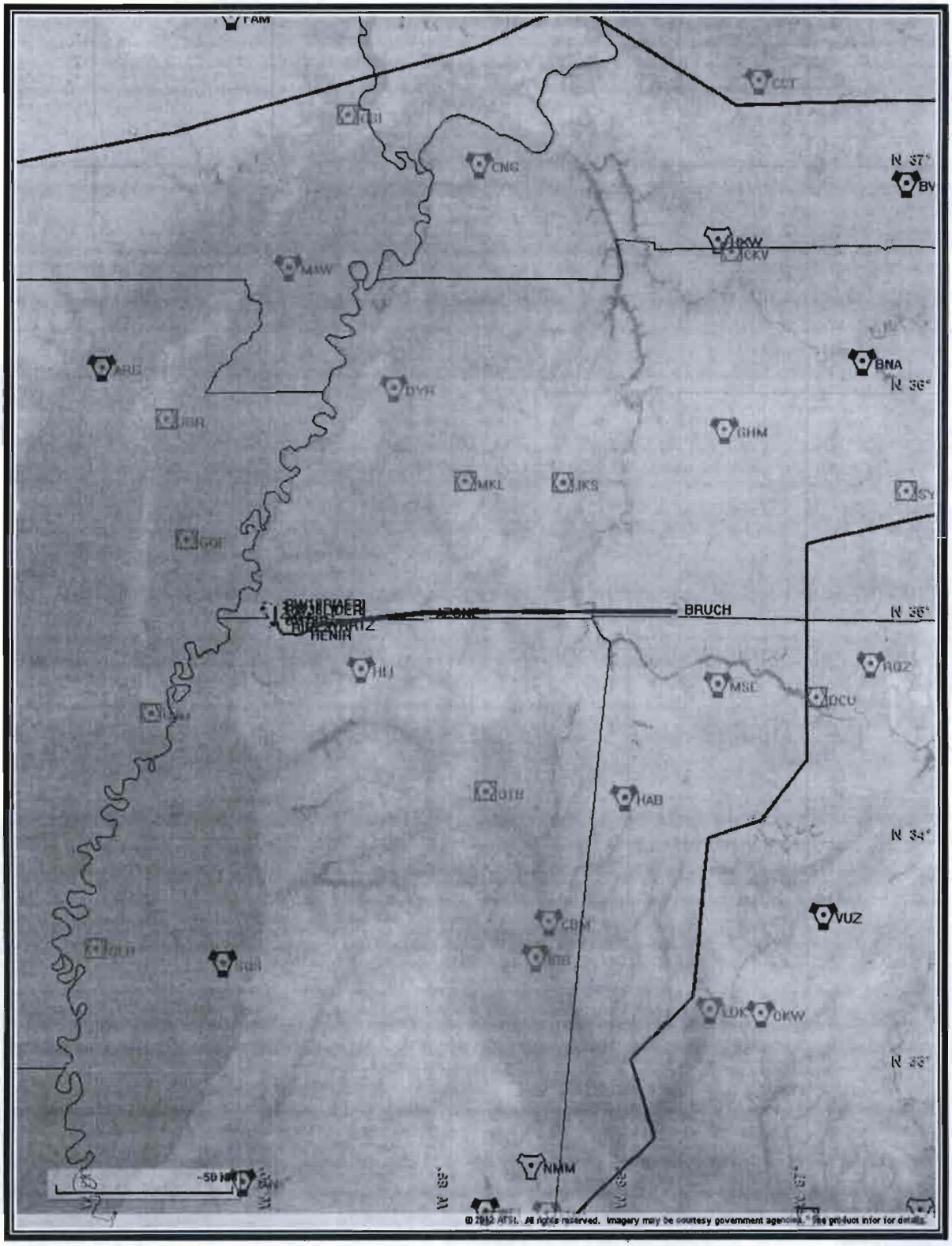

CNG
CKV
BNA
GHM
MKL
JKS
BRUCH
N 36°
N 35°
N 34°
N 33°
HAB
VUZ
LDK
OKW
NMM
50 NM

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW18R(...	WP	N 35° 2' 58.16" W 89° 59' 14.79"	288.4	VNAV	0.0	Fly By	TF
RW36L(...	WP	N 35° 1' 25.98" W 89° 59' 12.81"	355.8	VNAV	130.0	Fly Over	VI
GH18R	WP	N 34° 58' 33.44" W 89° 59' 9.12"	860.0	VNAV	145.0	Fly By	CF - 145.0°
RIBZZ	WP	N 34° 55' 50.46" W 89° 56' 50.61"	1558.2	VNAV	180.0	Fly By	TF
HENIR	WP	N 34° 55' 32.36" W 89° 50' 25.95"	2614.2	VNAV	180.0	Fly By	TF
WRRTZ	WP	N 34° 58' 5.90" W 89° 45' 5.99"	3629.0	VNAV	180.0	Fly By	TF
AZONE	WP	N 35° 1' 27.70" W 89° 7' 51.62"	5000.0	VNAV	180.0	Fly By	TF
BRUCH	WP	N 35° 1' 35.60" W 87° 43' 50.63"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KMEM
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Required IAS at Fly-By WP HENIR could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -31.20 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

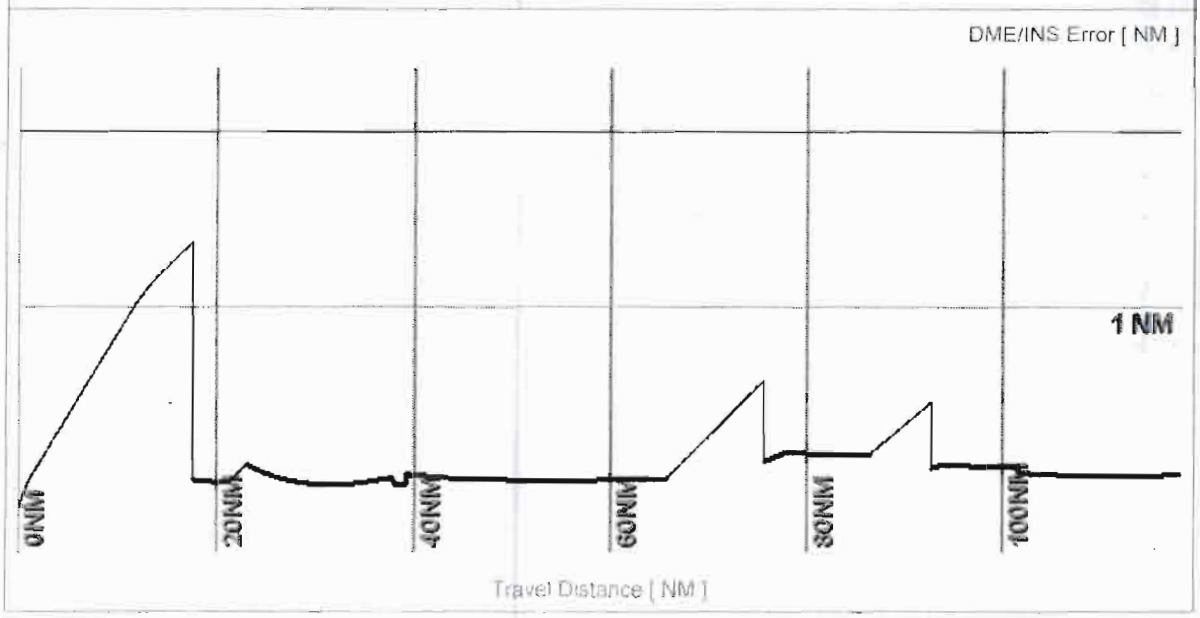
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 3475 Ft.

Total Number of DMEs Used: 9

Maximum DME Error: 1.267 NM.

No Critical DMEs were found.

Available DMEs: GQE, HLI, MEM, UJM, OTB, DYR, JKS, HAB, MSL, BNA, VUZ



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	HLI	N 34° 46' 12.95" W 89° 29' 47.39" E 3	L + ESV	User	NO	1.267	Enabled	36.6 %	37.9 %
2	UJM	N 34° 34' 30.16" W 90° 40' 27.84" E 1	L + ESV	User	NO	1.492	Enabled	2.9 %	3.0 %
3	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	Database	NO	1.267	Enabled	13.8 %	14.3 %
4	DYR	N 36° 1' 6.78" W 89° 19' 3.69" E 3	L + ESV	User	NO	1.267	Enabled	1.0 %	1.1 %
5	OTB	N 34° 13' 25.88" W 88° 47' 50.44" E 4	L + ESV	User	NO	1.580	Enabled	28.3 %	29.9 %
6	HAB	N 34° 11' 55.57" W 88° 0' 41.83" E 2	L + ESV	User	NO	1.308	Enabled	13.8 %	16.1 %
7	JKS	N 35° 35' 56.36" W 88° 21' 31.96" E 2	L + ESV	User	NO	1.267	Enabled	2.6 %	2.9 %
8	MSL	N 34° 42' 24.68" W 87° 29' 29.70" E 1	L + ESV	User	NO	1.267	Enabled	16.5 %	20.4 %
9	BNA	N 36° 8' 13.06" W 86° 41' 5.18" W 2	H	Database	NO	1.267	Enabled	10.4 %	13.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
4.2	HLI	MEM	GQE			
7.4	HLI	MEM	GQE			
12.4	HLI	MEM	GQE			
17.4	HLI	MEM	GQE	UJM	OTB	
29.9	HLI	MEM	OTB	DYR		
48.5	HLI	JKS	OTB			
75.5	HAB	JKS	OTB			
92.6	HAB	JKS	MSL	MEM	BNA	
106.8	VUZ	BNA	MSL			

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 35° 2' 58.16" W 89° 59' 14.79"	N 34° 57' 50.87" W 89° 45' 38.10"	17.5
	VOR: GQE	Available from N 35° 2' 58.16" W 89° 59' 14.79" to N 34° 55' 34.40" W 89° 50' 50.73"	
	VOR: HLI	Available from N 35° 2' 58.16" W 89° 59' 14.79" to N 34° 57' 50.87" W 89° 45' 38.10"	
	VOR: MEM	Available from N 35° 2' 58.16" W 89° 59' 14.79" to N 34° 57' 50.87" W 89° 45' 38.10"	
2	N 34° 58' 27.13" W 89° 41' 19.84"	N 34° 58' 40.47" W 89° 38' 54.71"	2.0
	VOR: HLI	Available from N 34° 58' 27.13" W 89° 41' 19.84" to N 34° 58' 40.47" W 89° 38' 54.71"	
	VOR: MEM	Available from N 34° 58' 27.13" W 89° 41' 19.84" to N 34° 58' 40.47" W 89° 38' 54.71"	
3	N 35° 1' 35.30" W 88° 47' 9.32"	N 35° 1' 37.83" W 88° 35' 14.97"	9.8
	VOR: HLI	Available from N 35° 1' 35.30" W 88° 47' 9.32" to N 35° 1' 35.85" W 88° 44' 55.38"	
	VOR: MKL	Available from N 35° 1' 35.30" W 88° 47' 9.32" to N 35° 1' 37.83" W 88° 35' 14.97"	
	VOR: JKS	Available from N 35° 1' 35.42" W 88° 46' 40.91" to N 35° 1' 37.83" W 88° 35' 14.97"	
4	N 35° 1' 39.34" W 88° 22' 0.17"	N 35° 1' 39.57" W 88° 14' 27.20"	6.2
	VOR: JKS	Available from N 35° 1' 39.34" W 88° 22' 0.17" to N 35° 1' 39.57" W 88° 14' 27.20"	
5	N 35° 1' 39.00" W 88° 2' 55.57"	N 35° 1' 38.95" W 88° 2' 26.35"	0.4
	VOR: JKS	Available from N 35° 1' 39.00" W 88° 2' 55.57" to N 35° 1' 38.95" W 88° 2' 26.35"	
	VOR: MSL	Available from N 35° 1' 39.00" W 88° 2' 55.57" to N 35° 1' 38.95" W 88° 2' 26.35"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SQS	N 33° 27' 49.90" W 90° 16' 38.40" E 3	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" E 4	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" E 3	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" E 4	L	363.7	109.80	OTB	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" E 3	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" E 4	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.)

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User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
7	UJM	N 34° 34' 30.16" W 90° 40' 27.84" E 1	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	JAN	N 32° 30' 26.95" W 90° 10' 3.34" E 5	H	360.0	112.60	JAN	Not Used
		ESV:	Bearing [True]: 348.0° to 6.0° Bearing [Mag]: 343.0° to 1.0°		Arc Distance: Out to 100.0 NM Altitude: 9000.0 to 24000.0 Ft.		
9	IGB	N 33° 29' 7.75" W 88° 30' 48.93" E 4	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.		
10	MEI	N 32° 22' 42.43" W 88° 48' 15.31" E 5	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.		
11	HAB	N 34° 11' 55.57" W 88° 0' 41.83" E 2	L	802.1	110.40	HAB	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.		
12	MSL	N 34° 42' 24.68" W 87° 29' 29.70" E 1	L	579.7	116.50	MSL	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.		
13	JKS	N 35° 35' 56.36" W 88° 21' 31.96" E 2	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.)

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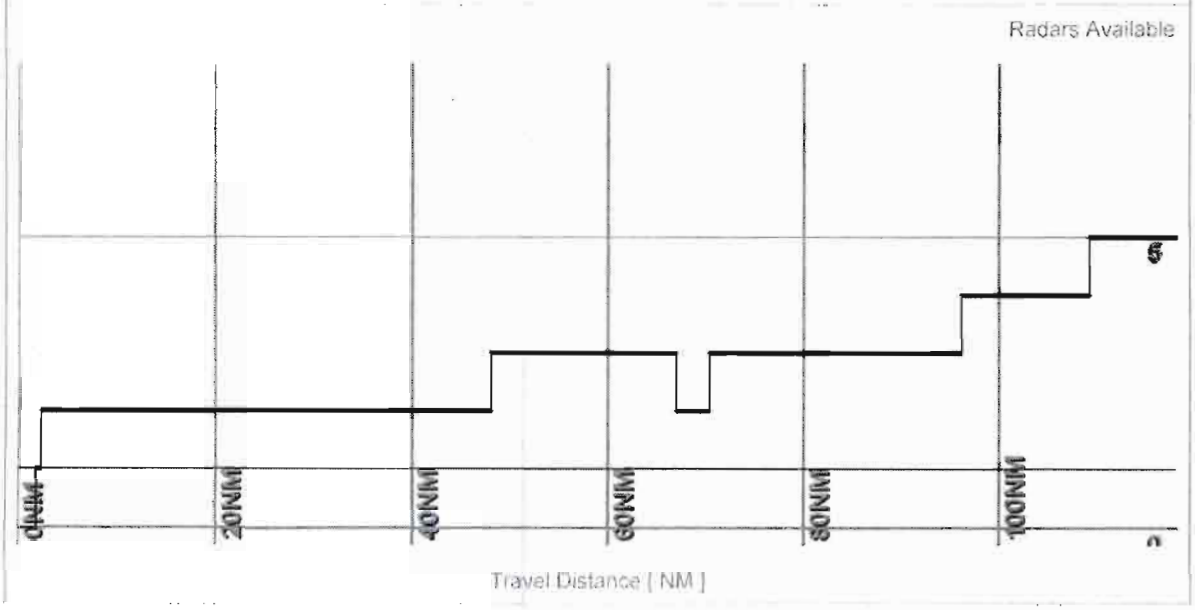
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
14	MAW	N 36° 33' 18.41" W 89° 54' 41.12" E 3	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.		
15	LIT	N 34° 40' 39.62" W 92° 10' 49.90" E 5	H	240.0	113.90	LIT	Not Used
		Restriction:	Bearing [True]: 226.0° to 233.0° Bearing [Mag]: 221.0° to 228.0°		Distance: Beyond 20.0 NM Altitude: Below 2800.0 Ft.		
		Restriction:	Bearing [True]: 234.0° to 244.0° Bearing [Mag]: 229.0° to 239.0°		Distance: Beyond 20.0 NM Altitude: Below 2500.0 Ft.		
		Restriction:	Bearing [True]: 265.0° to 285.0° Bearing [Mag]: 260.0° to 280.0°		Distance: Beyond 35.0 NM Altitude: Below 5000.0 Ft.		
		ESV:	Bearing [True]: 55.0° to 67.0° Bearing [Mag]: 50.0° to 62.0°		Arc Distance: Out to 93.0 NM Altitude: 9900.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

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