Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 06/20/2011	Task #: 2009100822838103008	Request #: 20091008228381
Procedure: STAR ROBYE (RNAV) ONE 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 D	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:

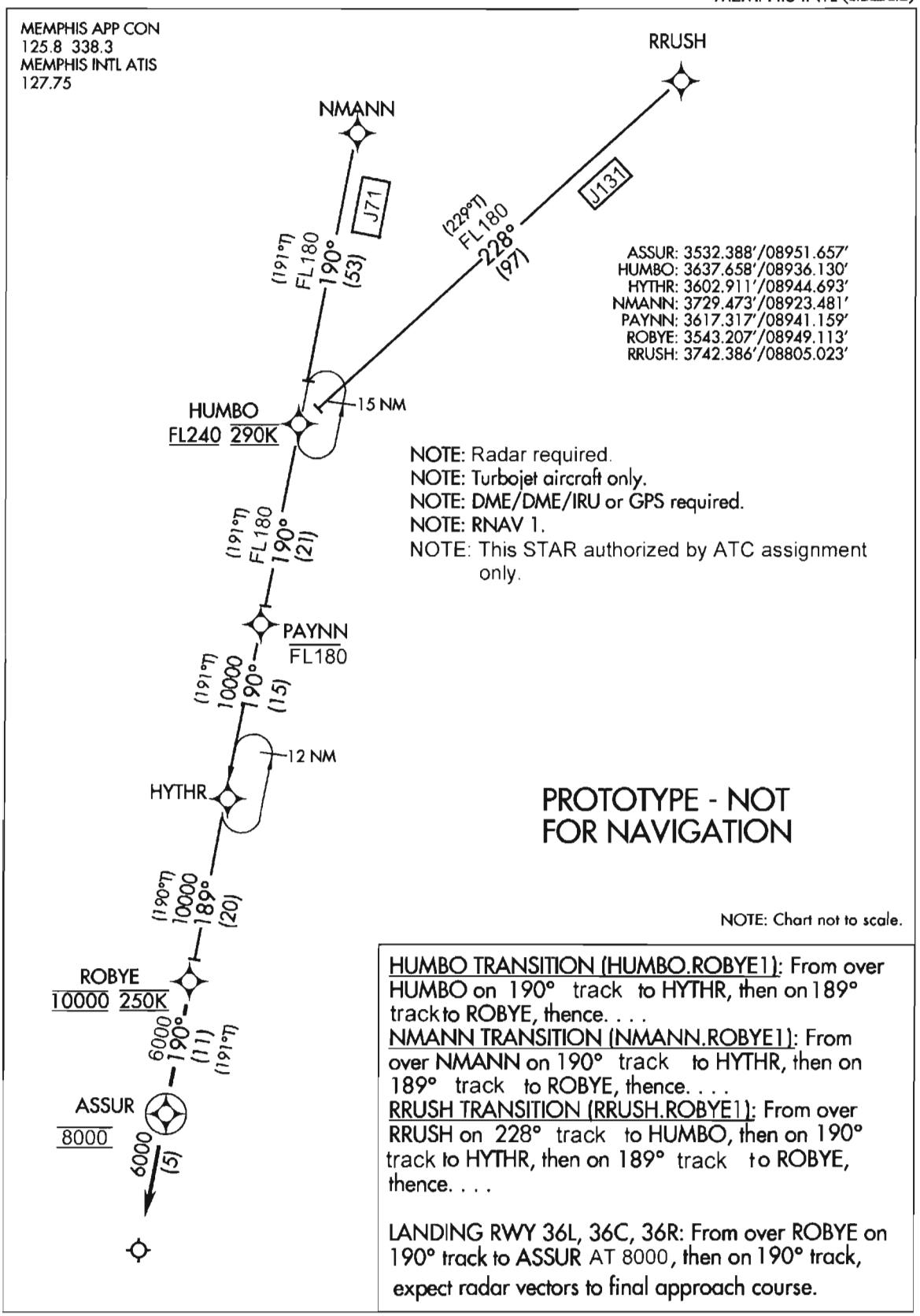
Remark Type: INFORMATION

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

ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): ASSUR, ORIG; HUMBO-INT, REV 1; HYTHR, ORIG; NMANN, ORIG; PAYNN, ORIG; ROBYE, ORIG; RRUSH, ORIG.

CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

ROBYE ONE ARRIVAL (RNAV)



HUMBO TRANSITION (HUMBO.ROBYE1): From over HUMBO on 190° track to HYTHR, then on 189° track to ROBYE, thence. . . .

NMANN TRANSITION (NMANN.ROBYE1): From over NMANN on 190° track to HYTHR, then on 189° track to ROBYE, thence. . . .

RRUSH TRANSITION (RRUSH.ROBYE1): From over RRUSH on 228° track to HUMBO, then on 190° track to HYTHR, then on 189° track to ROBYE, thence. . . .

LANDING RWY 36L, 36C, 36R: From over ROBYE on 190° track to ASSUR AT 8000, then on 190° track, expect radar vectors to final approach course.

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ARG	City : WALNUT RIDGE	Ident : ARG	State : AR
Type/Class : TACR	Frequency : M1179	Reference No.: 11075911	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698164-019	111	164	69	45	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: 07/22/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698164-019	111	164	69	45	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: HINTON VICTOR	Routing Symbol:	Date: 07/27/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698164-019	111	164	69	45	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: HINTON VICTOR	Routing Symbol:	Date: 07/27/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698164-019	111	164				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MALDEN	City : MALDEN	Ident : MAW	State : MO
Type/Class : TACR	Frequency : M1010	Reference No.: 11075813	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 702703-010	184	204	86	40	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 702703-010	184	204	86	40	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: 07/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702703-010	184	204	86	40	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: 07/19/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702703-010	184	204				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MALDEN	City : MALDEN	Ident : MAW	State : MO
Type/Class : TACR	Frequency : M1010	Reference No.: 11075814	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 702703-011	143	180	59	70	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 702703-011	143	180	59	70	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: 07/19/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702703-011	143	180	59	70	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: 07/19/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702703-011	143	180				

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 : 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 : 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.: 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				

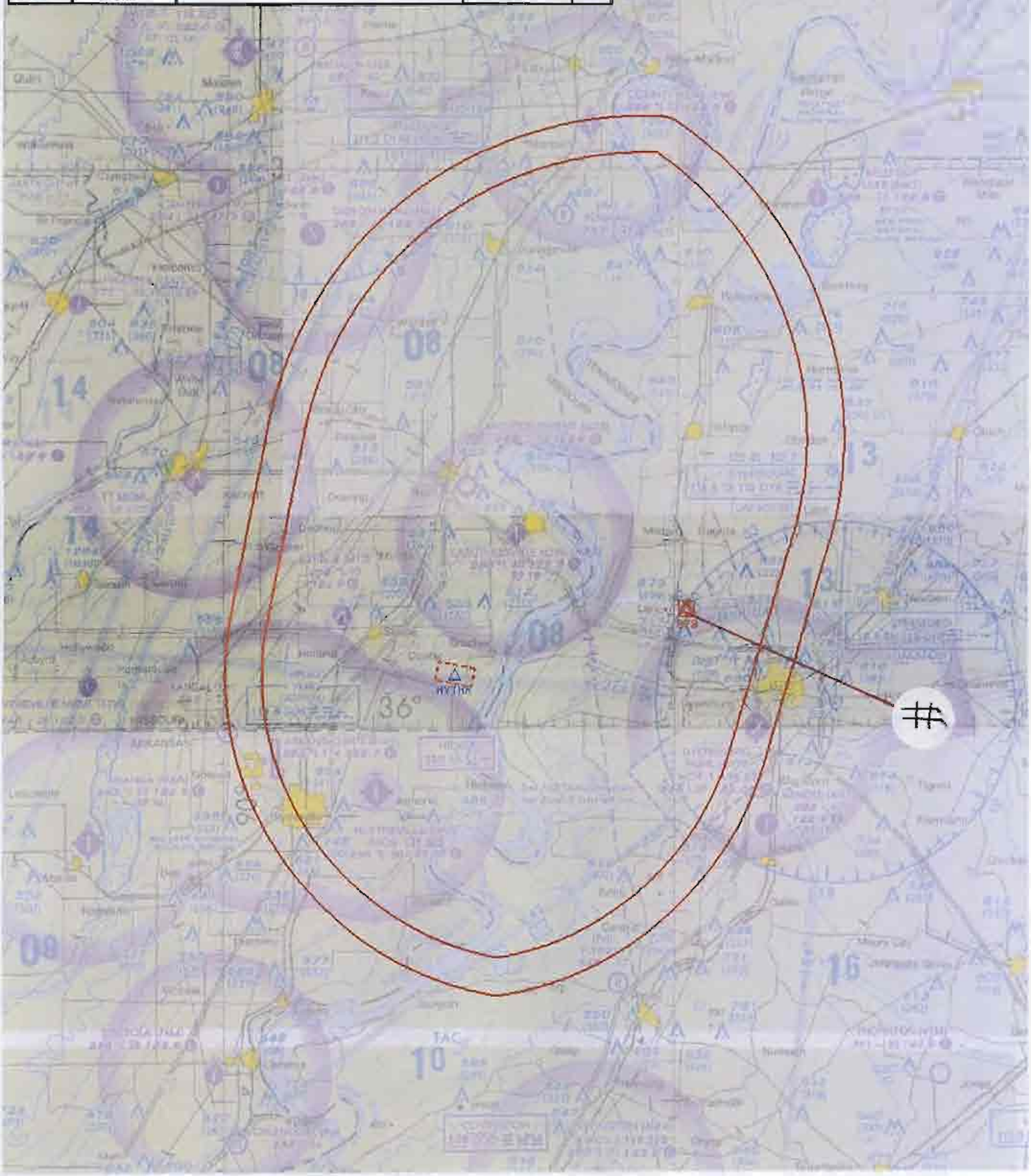
Requirement/Remarks:

Signature:	Routing Symbol:	Date:

NM	7	14	21	28	35	42	49
FT	42000	84000	126000	168000	210000	252000	294000

fposbb | mem_robyeh (PROD) | 20 Mar 2012 10:50:32 | 1" = 41666.7 feet (MAP)

Airport ID:	KMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	# HYTHR	Tower (47-001016)	979
State:	TN			
Scale:	1:500,000			
Proc ID:	ROBYE			
Amdt #:	ONE			

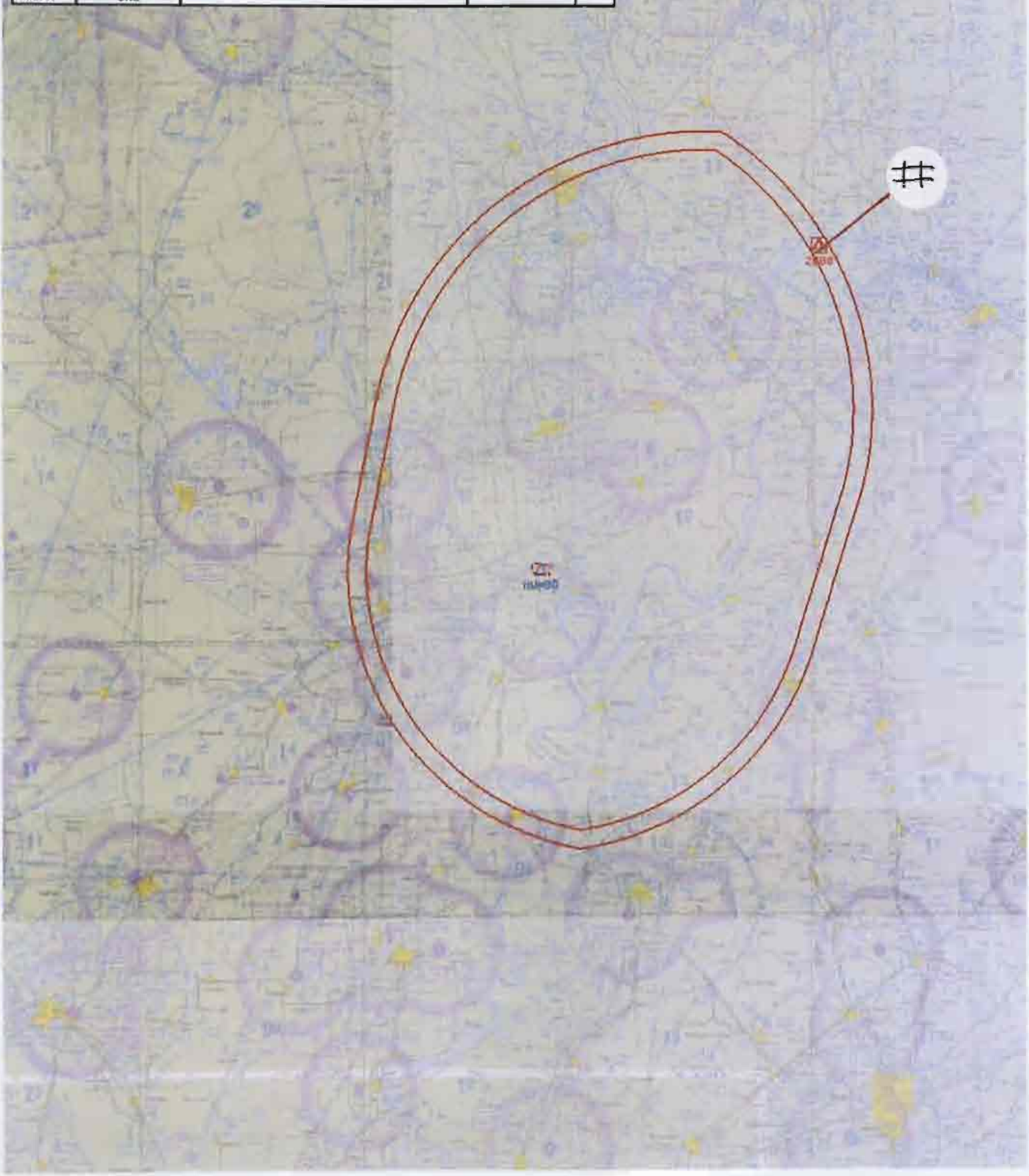


NM 14 28 42 56 70 84 98

FT 84000 168000 252000 336000 420000 504000 588000

fposbb | mem_robyeh (PROD) | 20 Mar 2012 12:03:48 | 1" = 83500.1 feet (MAP)

Airport ID:	KMEM	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	Memphis Intl			
City:	Memphis	a HUMBO	Tower (21-000045)	2000
State:	TN			
Scale:	1:500,000/50%			
Proc ID:	ROBYE			
Amdt #:	ONE			



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
HUMBO	HUMBO.ROBYE1	HUMBO	PAYNN	190.32/20.71	FL180			AT/BELOW FL230, AT/ABOVE FL180
		PAYNN	HYTHR	190.27/14.67	10000			
		HYTHR	ROBYE	189.37/20.00	10000			AT 10000
NMANN	NMANN.ROBYE1	NMANN	HUMBO	190.13/52.73	FL180			AT/ABOVE FL240
		HUMBO	PAYNN	190.32/20.71	FL180			AT/BELOW FL230, AT/ABOVE FL180
		PAYNN	HYTHR	190.27/14.67	10000			
		HYTHR	ROBYE	189.37/20.00	10000			AT 10000
RRUSH	RRUSH.ROBYE1	RRUSH	HUMBO	227.86/97.37	FL180			AT/ABOVE FL240
		HUMBO	PAYNN	190.32/20.71	FL180			AT/BELOW FL230, AT/ABOVE FL180
		PAYNN	HYTHR	190.27/14.67	10000			
		HYTHR	ROBYE	189.37/20.00	10000			AT 10000

(2) Arrival Route Description:

LANDING RWY 36L, 36C, 36R: FROM OVER ROBYE ON 189.88 TRACK TO ASSUR AT 8000 (MEA 6000), THEN ON 189.88 TRACK, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(3) Procedural Data Notes: **NOTE:** RADAR REQUIRED; **NOTE:** TURBOJET AIRCRAFT ONLY; **NOTE:** DME/DME/IRU OR GPS REQUIRED; **NOTE:** RNAV 1; **CHART:** CROSS HUMBO AT OR ABOVE FL240 AT 290 KIAS; **CHART:** CROSS ROBYE AT 250 KIAS; **NOTE:** THIS STAR AUTHORIZED BY ATC ASSIGNMENT ONLY.

(4) Fixes and/or Holding Patterns:

CHART HOLDING PATTERNS: HUMBO (HOLD N, LT, 190.13, INBOUND, 15 NM LEGS); HYTHR (HOLD N, LT, 190.27 INBOUND, 12 NM LEGS).

(5) Communications:

MEM APP CON; MEM INTL ATIS.

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
ROBYE RNAV	ONE	ROBYE.ROBYE1	NONE		

(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 MAGVAR: KMEM 01E/2000.

DME/DME ASSESSMENT: SAT (RNP 2.0).

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
ROBYE RNAV	ONE	ROBYE.ROBYE1	NONE		

(16) Continuation:

(17) Changes:
ORIGINAL

(18) Reasons for Changes:
EASTERN FPT REQUEST.

06/18/2012: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/13/2012.
DELETED FROM BLOCK 3 PROCEDURAL DATA NOTES: CHART: J71, NMANN-HUMBO; CHART: J131, RRUSH-HUMBO

QUALITY CHECKED

		Name *(Typed and Signed)*, Title and Organization	DATE
Developed By		JOHN HENSLEY, SUPPORT SPECIALIST, ZME	07/26/2012
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
ROBYE RNAV	ONE	ROBYE.ROBYE1	NEW		

(19) Graphic Depiction:

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
ROBYE RNAV	ONE	ROBYE.ROBYE1	NEW		

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									
HUMBO	363739.45N/ 0893607.81W	Y		IF			AT/ABOVE FL240	AT 290K	HUMBO.ROBYE1
PAYNN	361719.02N/ 0894109.51W	Y	FB	TF	191.32	20.71	AT/BELOW FL230 AT/ABOVE FL180		
HYTHR	360254.68N/ 0894441.56W	Y	FB	TF	191.27	14.67			
ROBYE	354312.42N/ 0894906.80W	Y	FB	TF	190.37	20.00	AT 10000	AT 250K	
EN ROUTE TRANSITION									
NMANN	372928.40N/ 0892328.88W	Y		IF					NMANN.ROBYE1
HUMBO	363739.45N/ 0893607.81W	Y	FB	TF	191.13	52.73	AT/ABOVE FL240	AT 290K	
PAYNN	361719.02N/ 0894109.51W	Y	FB	TF	191.32	20.71	AT/BELOW FL230 AT/ABOVE FL180		
HYTHR	360254.68N/ 0894441.56W	Y	FB	TF	191.27	14.67			
ROBYE	354312.42N/ 0894906.80W	Y	FB	TF	190.37	20.00	AT 10000	AT 250K	
EN ROUTE TRANSITION									
RRUSH	374223.16N/ 0880501.36W	Y		IF					RRUSH.ROBYE1
HUMBO	363739.45N/ 0893607.81W	Y	FB	TF	228.86	97.37	AT/ABOVE FL240	AT 290K	
PAYNN	361719.02N/ 0894109.51W	Y	FB	TF	191.32	20.71	AT/BELOW FL230 AT/ABOVE FL180		
HYTHR	360254.68N/ 0894441.56W	Y	FB	TF	191.27	14.67			

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
ROBYE RNAV	ONE	ROBYE.ROBYE1	NONE		

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
ROBYE	354312.42N/ 0894906.80W	Y	FB	TF	190.37	20.00	AT 10000	AT 250K	
RUNWAY TRANSITION									
ROBYE	354312.42N/ 0894906.80W	Y		IF					
ASSUR	353223.27N/ 0895139.41W	Y	FO	TF	190.88	11.00	AT 8000		
RWY 36L, 36C, 36R				FM	190.88				

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
ROBYE RNAV	ONE	ROBYE.ROBYE1	NONE		

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ASSUR K70    W     N35322327W089513941                    W0010     NAR           ASSUR
        SUSAEAENRT   HUMBO K30    C   H N36373945W089360781                    W0013     NAR           HUMBO
        SUSAEAENRT   HYTHR K30    W     N36025468W089444156                    W0011     NAR           HYTHR
        SUSAEAENRT   NMANN K50    W     N37292840W089232888                    W0016     NAR           NMANN
        SUSAEAENRT   PAYNN K30    W     N36171902W089410951                    W0012     NAR           PAYNN
        SUSAEAENRT   ROBYE K70    W     N35431242W089490680                    W0010     NAR           ROBYE
        SUSAEAENRT   RRUSH K50    W     N37422316W088050136                    W0026     NAR           RRUSH

                 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 KMEMK7EROBYE14HUMBO 010HUMBOK3EA0E  H    IF                                  + FL240     18000290
        SUSAP KMEMK7EROBYE14HUMBO 020PAYNNK3EA0E    010TF                      19030207    B FL230FL180
        SUSAP KMEMK7EROBYE14HUMBO 030HYTHRK3EA0E  H 010TF                      19030147
        SUSAP KMEMK7EROBYE14HUMBO 040ROBYEK7EA0EE   010TF                      18940200      10000          250
        SUSAP KMEMK7EROBYE14NMANN 010NMANNK5EA0E       IF                                                18000
        SUSAP KMEMK7EROBYE14NMANN 020HUMBOK3EA0E  H 010TF                      19010527    + FL240          290
        SUSAP KMEMK7EROBYE14NMANN 030PAYNNK3EA0E    010TF                      19030207    B FL230FL180
        SUSAP KMEMK7EROBYE14NMANN 040HYTHRK3EA0E  H 010TF                      19030147
        SUSAP KMEMK7EROBYE14NMANN 050ROBYEK7EA0EE   010TF                      18940200      10000          250
        SUSAP KMEMK7EROBYE14RRUSH 010RRUSHK5EA0E       IF                                                18000
        SUSAP KMEMK7EROBYE14RRUSH 020HUMBOK3EA0E  H 010TF                      22790974    + FL240          290
        SUSAP KMEMK7EROBYE14RRUSH 030PAYNNK3EA0E    010TF                      19030207    B FL230FL180
        SUSAP KMEMK7EROBYE14RRUSH 040HYTHRK3EA0E  H 010TF                      19030147
        SUSAP KMEMK7EROBYE14RRUSH 050ROBYEK7EA0EE   010TF                      18940200      10000          250
        SUSAP KMEMK7EROBYE16RW36B 010ROBYEK7EA0E       IF                                                18000
        SUSAP KMEMK7EROBYE16RW36B 020ASSURK7EA0EY   010TF                      18990110      08000
```

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
ROBYE RNAV	ONE	ROBYE.ROBYE1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

```
        SUSAP KMEMK7EROBYE16RW36B 030ASSURK7EA0EE      FM MEM K7      009803201899    D     08000

                  1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------------
        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
ROBYE RNAV	ONE	ROBYE.ROBYE1	NONE		

FAA Form 7100-3 (9/02)

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
	HUMBO	HUMBO	010		IF		FB				AA FL240	AT 290
	HUMBO	PAYNN	020		TF		FB	1.0	190.3()	020.7	BT FL230FL180	
	HUMBO	HYTHR	030		TF		FB	1.0	190.3()	014.7		
	HUMBO	ROBYE	040		TF		FB	1.0	189.4()	020.0	AT 10000	AT 250
	NMANN	NMANN	010		IF		FB					
	NMANN	HUMBO	020		TF		FB	1.0	190.1()	052.7	AA FL240	AT 290
	NMANN	PAYNN	030		TF		FB	1.0	190.3()	020.7	BT FL230FL180	
	NMANN	HYTHR	040		TF		FB	1.0	190.3()	014.7		
	NMANN	ROBYE	050		TF		FB	1.0	189.4()	020.0	AT 10000	AT 250
	RRUSH	RRUSH	010		IF		FB					
	RRUSH	HUMBO	020		TF		FB	1.0	227.9()	097.4	AA FL240	AT 290
	RRUSH	PAYNN	030		TF		FB	1.0	190.3()	020.7	BT FL230FL180	
	RRUSH	HYTHR	040		TF		FB	1.0	190.3()	014.7		
	RRUSH	ROBYE	050		TF		FB	1.0	189.4()	020.0	AT 10000	AT 250
	RW36B	ROBYE	010		IF		FB					
	RW36B	ASSUR	020		TF		FO	1.0	189.9()	011.0	AT 08000	
	RW36B	ASSUR	030		FM		FB		189.9()		AT 08000	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
MEM	N350054.42	W0895859.55	N3500.907	W08958.993
ASSUR	N353223.27	W0895139.41	N3532.388	W08951.657
HUMBO	N363739.45	W0893607.81	N3637.658	W08936.130
HYTHR	N360254.68	W0894441.56	N3602.911	W08944.693
NMANN	N372928.40	W0892328.88	N3729.473	W08923.481
PAYNN	N361719.02	W0894109.51	N3617.317	W08941.159
ROBYE	N354312.42	W0894906.80	N3543.207	W08949.113
RRUSH	N374223.16	W0880501.36	N3742.386	W08805.023
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
RW36C	00341	60
RW36L	00321	59
RW36R	00335	58

QUALITY CHECKED 1

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
ROBYE RNAV	ONE	ROBYE.ROBYE1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
ROBYE RNAV	ONE	ROBYE.ROBYE1	NONE		

FAA Form 7100-3 (9/02)

RADIO FIX AND HOLDING DATA RECORD

NAME: ASSUR **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 353223.27N/0895139.41W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	MONAA (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:** 02/14/2012 **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: HUMBO **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 363739.45N/0893607.81W **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	009.78	010.78	98.38	98.38		18000	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	N		WP	010.13	190.13	L		15	18000	45000	28	30

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J131	1				(US)
EN ROUTE	J71	1				(US)
STAR	ROBYE (RNAV)		1	KMEM	MEMPHIS	TN (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED FAC 1 NM DIST FROM FAC.
ADDED PAT 1 HOLDING; ADDED HOLDING LIMITED NOTE TO HOLDING RESTRICITONS; ADDED PRECIPITOUS TERRAIN NOTE TO REMARKS.
ADDED STAR TO REQUIRED CHARTING.
ADDED EST FPO TO DISTRIBUTION; DELETED ZFW.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: HYTHR **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 360254.68N/0894441.56W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N		WP	010.27	190.27	L		12	10000	45000	20	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (47-001016)	360600.00N/0892912.00W	979	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	ROBYE (RNAV)		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:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: NMANN **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 372928.40N/0892328.88W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:

06/18/2012: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/13/2012.
DELETED EN ROUTE HIGH FROM REQUIRED CHARTING; DELETED J71 FROM FIX USE.

DEVELOPED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** 06/13/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PAYNN **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 361719.02N/0894109.51W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	ROBYE (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:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ROBYE **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 354312.42N/0894906.80W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	ROBYE (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:** 02/14/2012 **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: RRUSH **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 374223.16N/0880501.36W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:

06/18/2012: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/13/2012.
DELETED EN ROUTE HIGH FROM REQUIRED CHARTING; DELETED J131 FROM FIX USE.

DEVELOPED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** 06/13/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

Name:	MILLERJ
Project Name:	MEM ROBYE1 NMANN ASSUR 20120125
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	1/25/2012 9:54:41 AM
Input File:	KMEM ROBYE1 NMANN AS...
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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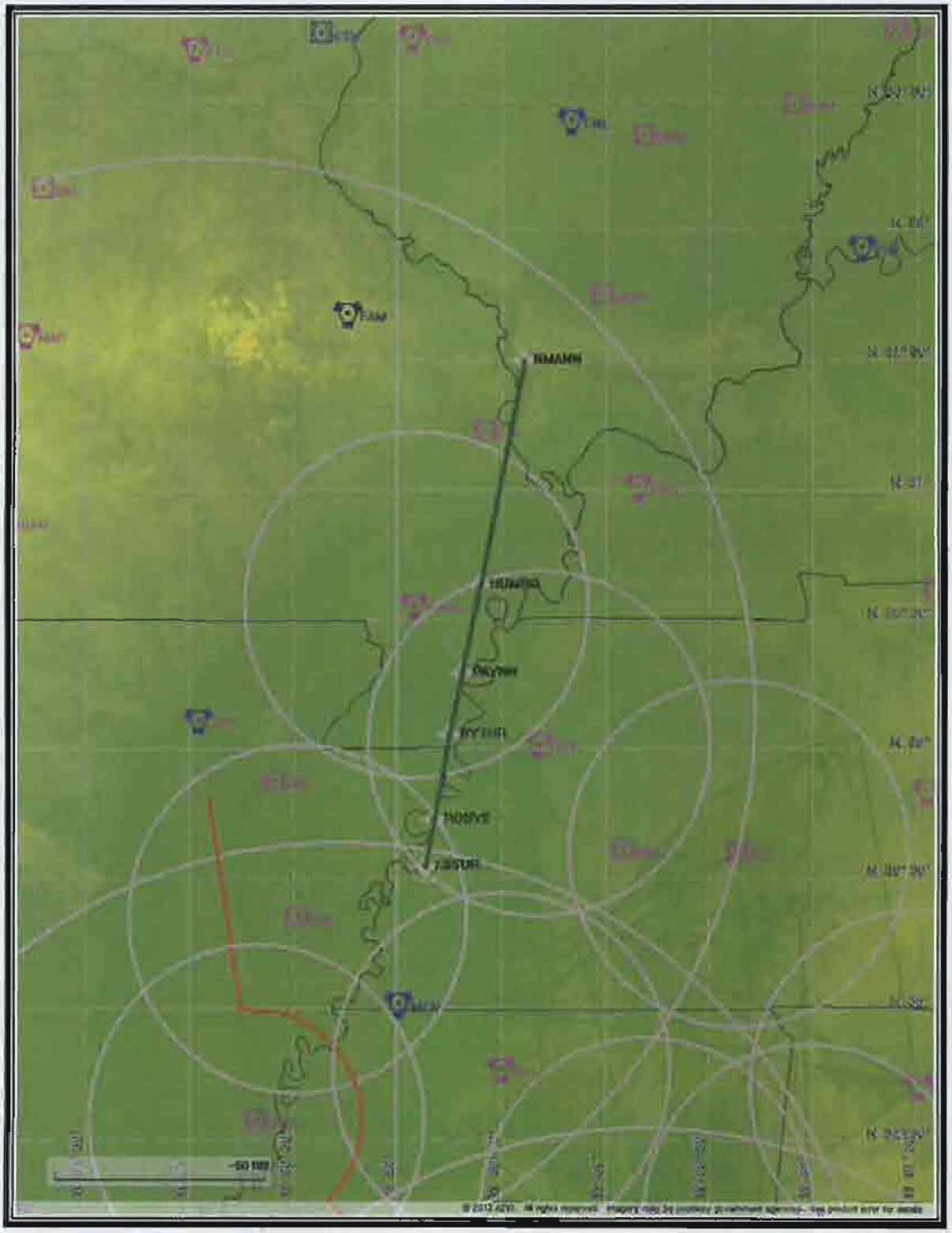

NMANN
ROBYE
ASSUR

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
NMANN	WP	N 37° 29' 28.40" W 89° 23' 28.88"	24000.0	Step	350.0	Fly By	TF
HUMBO	WP	N 36° 37' 39.45" W 89° 36' 7.81"	18000.0	Step	350.0	Fly By	TF
PAYNN	WP	N 36° 17' 19.02" W 89° 41' 9.51"	18000.0	Step	230.0	Fly By	TF
HYTHR	WP	N 36° 2' 54.68" W 89° 44' 41.56"	10000.0	Step	180.0	Fly By	TF
ROBYE	WP	N 35° 43' 12.42" W 89° 49' 6.80"	10000.0	Step	180.0	Fly By	TF
ASSUR	WP	N 35° 32' 23.27" W 89° 51' 39.41"	6000.0	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 HYTHR too high.

DME/DME

Return To Summary

Settings:

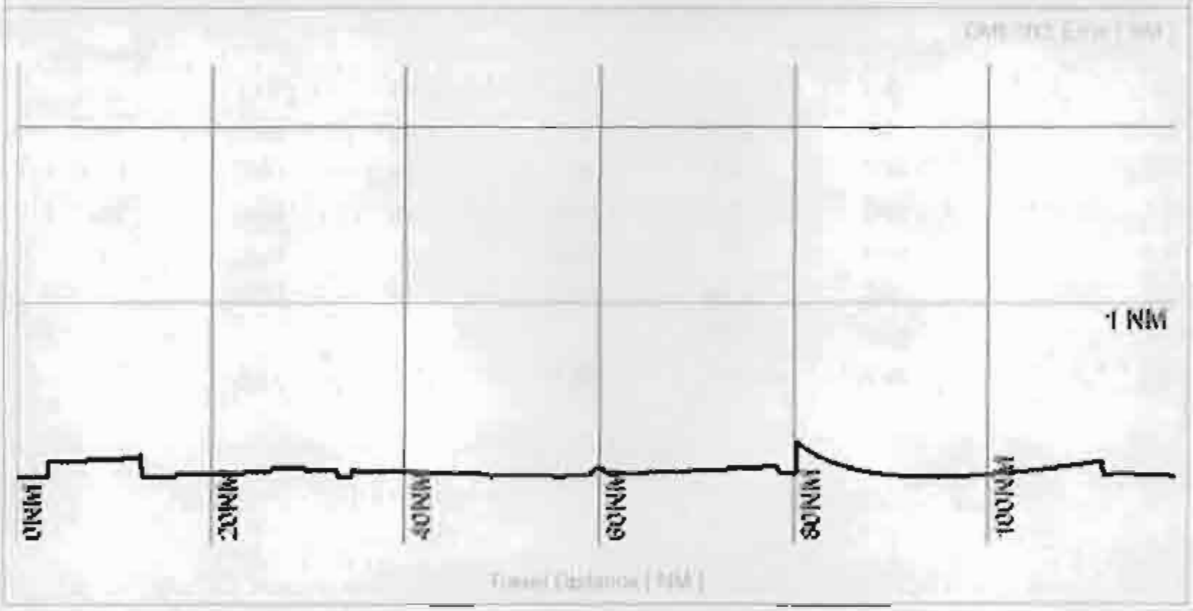
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 13

Maximum DME Error: 0.424 NM.

No Critical DMEs were found.

Available DMEs: ARG, CSX, ENL, FAM, PXV, STL, CNG, MWA, CGI, MAW, MEM, DYR, GQE



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	0.424	Enabled	9.7 %	10.7 %
2	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	0.424	Enabled	42.5 %	46.1 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.424	Enabled	7.3 %	7.9 %
4	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.424	Enabled	7.4 %	8.1 %
5	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	Database	NO	0.424	Enabled	0.1 %	0.1 %
6	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.424	Enabled	2.8 %	3.0 %
7	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	0.424	Enabled	8.7 %	9.4 %
8	ARG	N 38° 6' 35.95" W 90° 57' 13.23"	H + ESV	User	NO	0.493	Enabled	47.5 %	49.2 %
9	CGI	N 37° 13' 39.10" W 89° 34' 20.60"	L	Database	NO	0.424	Enabled	1.2 %	1.3 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L + ESV	User	NO	1.497	Enabled	31.6 %	27.8 %
11	DYR	N 36° 1' 6.78" W 89° 19' 3.69"	L + ESV	User	NO	1.494	Enabled	36.2 %	31.6 %
12	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H	Database	NO	0.424	Enabled	4.8 %	4.4 %
13	GQE	N 35° 20' 49.31" W 90° 28' 41.37"	L + ESV	User	NO	0.424	Enabled	0.3 %	0.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	PXV	STL	ENL	FAM	CSX	ARG
12.8	PXV	MWA	ENL	FAM	CNG	ARG
25.2	ARG	CGI	ENL	FAM	CNG	MAW
42.5	ARG	CGI	MAW	FAM	MEM	ENL
52.7	ARG	DYR	MAW	FAM	MEM	CGI
73.5	ARG	DYR	MAW	FAM	MEM	
88.0	MAW	DYR				
108.1	MAW	DYR	MEM	GQE	ARG	

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	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	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	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: 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

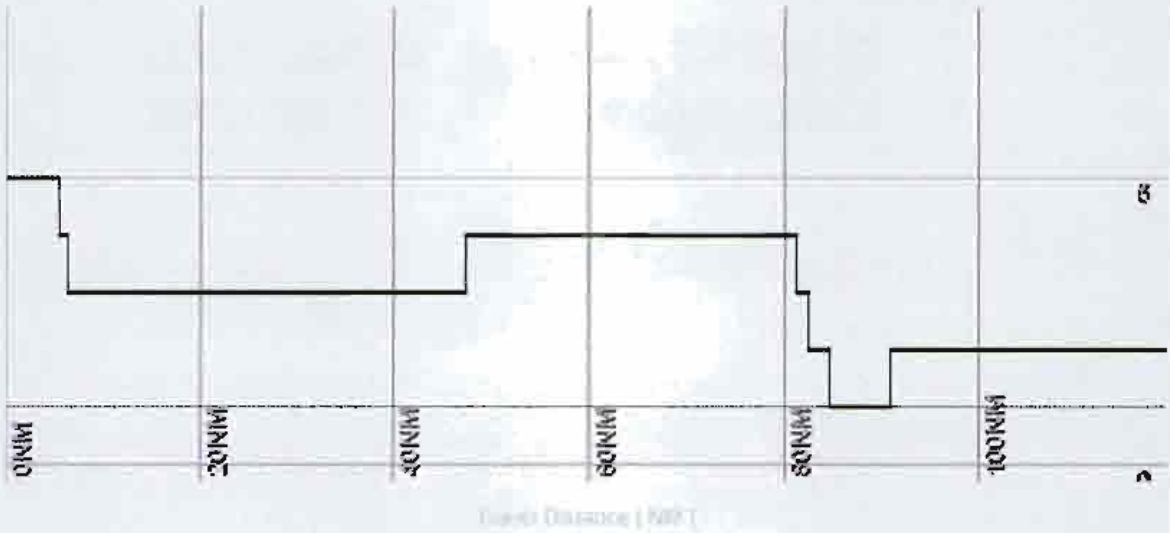
User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
13	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	280.0	111.20	MAW	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 ROBYE1 RRUSH HUMBO 20120125
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	1/25/2012 10:09:06 AM
Input File:	ROBYE RRUSH RW36C 20...
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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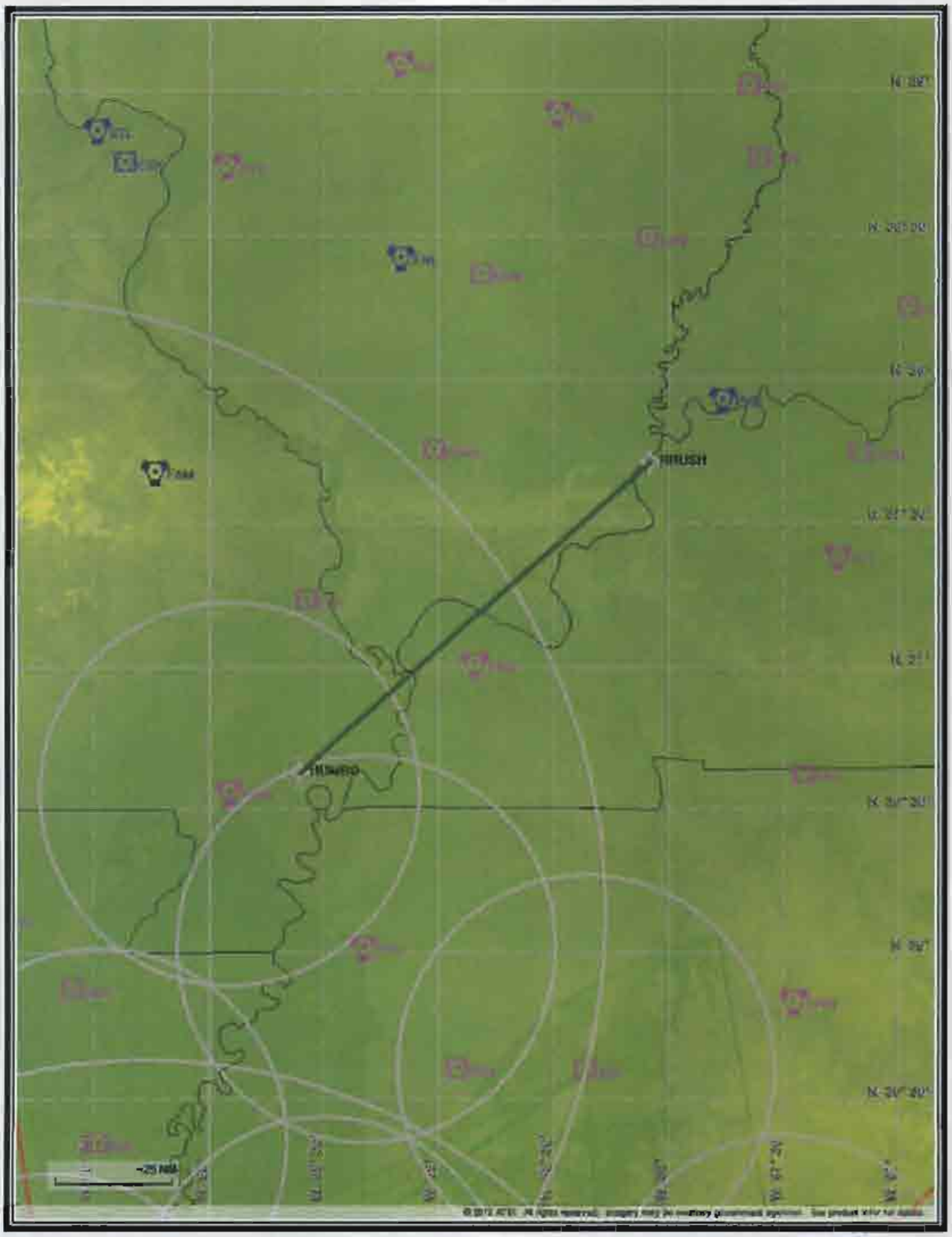

RRUSH
HUMBO

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RRUSH	WP	N 37° 42' 23.16" W 88° 5' 1.36"	23000.0	Step	300.0	Fly By	TF
HUMBO	WP	N 36° 37' 39.45" W 89° 36' 7.81"	18000.0	Step	290.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: EnRoute
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:

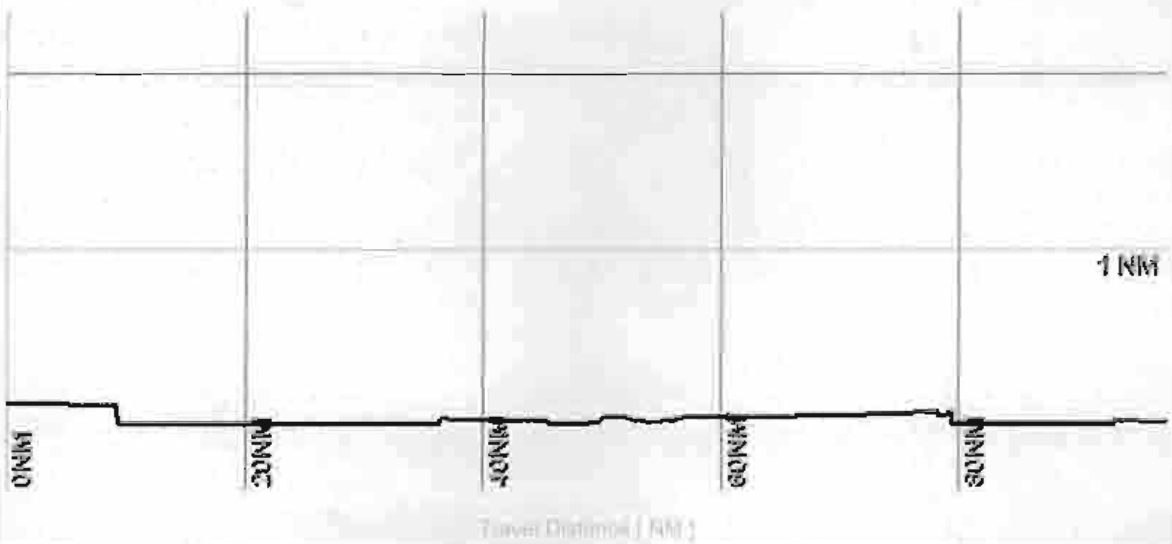
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 0.365 NM.

No Critical DMEs were found.

Available DMEs: BNA, BWG, CSX, ENL, FAM, IIU, PXV, TTH, MWA, CNG, CGI, ARG, MAW



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H	Database	NO	0.333	Enabled	9.6 %	9.5 %
2	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.559	Enabled	50.4 %	50.4 %
3	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.462	Enabled	19.1 %	19.1 %
4	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	0.365	Enabled	46.1 %	46.1 %
5	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.365	Enabled	17.3 %	17.3 %
6	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	0.365	Enabled	34.1 %	34.1 %
7	CGI	N 37° 13' 39.10" W 89° 34' 20.60"	L	Database	NO	0.365	Enabled	16.9 %	16.9 %
8	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L + ESV	User	NO	0.365	Enabled	1.1 %	1.1 %
9	ARG	N 36° 6' 35.95" W 90° 57' 13.23"	H + ESV	User	NO	0.365	Enabled	5.4 %	5.4 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	ENL	PXV	BNA	FAM	TTH	CSX
16.3	ENL	PXV	MWA	FAM	CNG	
36.5	ENL	PXV	CGI	FAM	CNG	MWA
70.2	ARG	PXV	CGI	FAM	CNG	ENL
81.5	ARG	MAW	CGI	FAM	CNG	

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	Not 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	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	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: 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.		

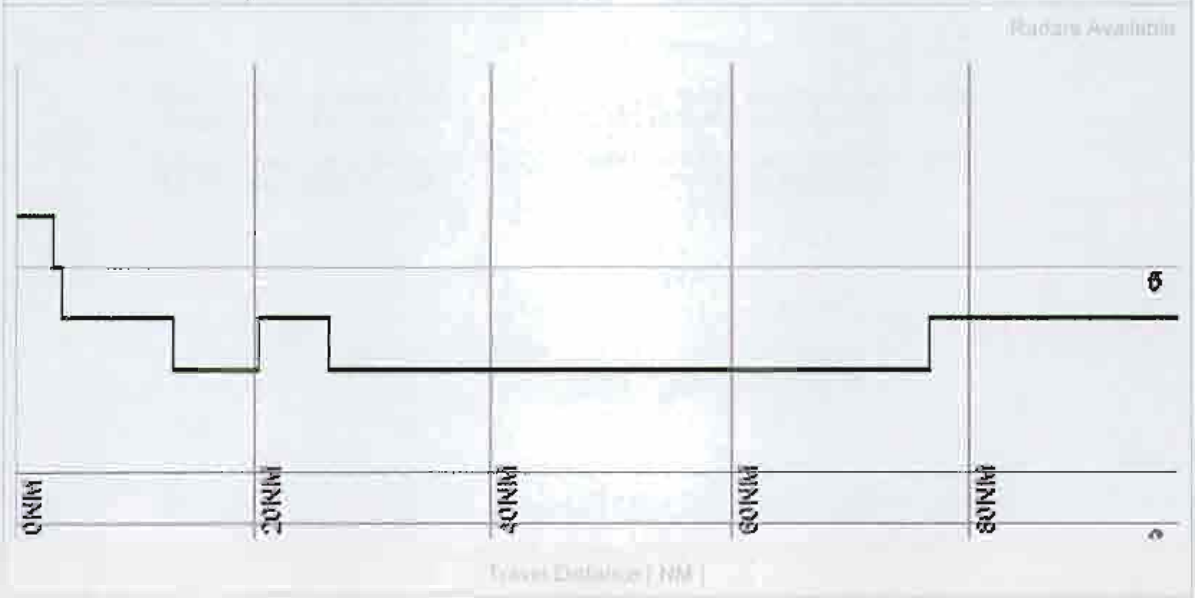
DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
13	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	280.0	111.20	MAW	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