

COPTER RNAV

**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION -- FLIGHT STANDARDS SERVICE
SPECIAL INSTRUMENT APPROACH PROCEDURE -- FLIGHT STANDARDS SERVICE**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

If an instrument approach procedure of the above type is conducted at the below named airport, it shall be conducted in accordance with a charted instrument approach procedure predicated on the specifications contained herein and as specified on accompanying FAA form 8260-10, unless an approach is conducted in accordance with a different procedure for such airport authorized by AFS-400. Minimum altitudes shall correspond with those established for en route operation in the particular area or as set forth below.

SPECIFICATION - NOT FOR COCKPIT USE

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	MAP:
PBODI (IAF)(40E)(43A)	CADKE (TF)(FB)(40E)(41E)(43B)	148.76 / 3.00	3000	BADCO
ADDIC (IAF)(40E)(43A)	CADKE (TF)(FB)(40E)(41E)(43B)	328.73 / 3.00	3000	
CADKE (IF)(40E)(43I)	TAPIO (TF)(FB)(40E)(43F)	238.74 / 3.00	2000	CLIMBING LEFT TURN TO 3000 DIRECT ADG NDB AND HOLD.
TAPIO (FAF)(40E)(43F)	BADCO (TF)(FO)(40E)(41Y)(43M)	238.72 / 2.00		
BADCO (MAP)(40E)(41Y)(43M)	1320 MSL (CA)(42M)	238.72		
1320 MSL	ADG NDB(DF)(FO)(40N)(41B)(43H)		3000	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. PROFILE STARTS AT CADKE

3. FAC: 238.72 FAF: TAPIO DIST FAF TO MAP: 2.00 THLD:

4. MIN. ALT: CADKE 3000, TAPIO 2000

5. DIST TO THLD FROM OM: MM: IM: 100 HAT: GS ANT:

6. MIN GS INCPT: GS ALT AT: OM: MM: IM:

7. GS ANGLE: TCH:

8. MSA FROM: BADCO 3100

ADDITIONAL FLIGHT DATA:
 HOLD NE, RT, 222.00 INBOUND
 CHART FAS OBST:1018 TOWER 415453N/0840134W
 BIXBY MEDICAL CENTER: 825, 238.71/0.65
 ROUTE TYPE DESCRIPTION: A, R
 SEE FAA FORM 8260-10.

MAG VAR: 6W EPOCH YEAR: 2010

MINIMUMS

TAKEOFF:	ALTERNATE: N A <input checked="" type="checkbox"/>														
CATEGORY =====>	COPTER			B			C			D			E		
	DA/MDA	VIS	HAS	DA/MDA	VIS	HAT/HAA									
LNAV MDA	1320	1	467												

NOTES:
 CHART NOTE: USE ADRIAN-LENAWEE COUNTY ALTIMETER SETTING; WHEN NOT RECEIVED, USE ANN ARBOR ALTIMETER SETTING AND INCREASE MDA 60 FT.
 CHART PLANVIEW NOTE: LIMIT FINAL AND MISSED APPROACH TO 70 KIAS.
 CHART NOTE: HELIPAD LIGHTS BY PRIOR ARRANGEMENT.
 CHART NOTE: IFR DEPARTURE NA; DEPART VFR ONLY.
 CHART PLANVIEW NOTE: PROCEED VFR FROM BADCO OR CONDUCT THE SPECIFIED MISSED APPROACH.
 SEE FAA FORM 8260-10.

CITY AND STATE ADRIAN, MI	SURFACE ELEVATION: 853	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: COPTER RNAV (GPS) 239, ORIG	SUP:
	AIRPORT NAME: BIXBY MEDICAL CENTER			AMDT: NONE
				DATED:

NOTES CONTINUED:

(SEE ATTACHED GRAPHIC PROCEDURE)

AIR CARRIER NOTES:

The procedure on the other side and the foregoing data are hereby:

SUBMITTED BY		
NAME: JEFFREY D. WILSON, MANAGING OWNER, 316-304-6157	<i>Jeffrey D. Wilson</i>	COMPANY ASTECH ENGINEER, INC. DATE: 3/27/2011
FLIGHT CHECKED BY		
NAME: JAMES N. CRAWFORD	FIFO	DATE:
DEVELOPED BY		
NAME: JEFFREY D. WILSON, MANAGING OWNER, 316-304-6157	<i>Jeffrey D. Wilson</i>	COMPANY ASTECH ENGINEER, INC. DATE: 3/27/2011
RECOMMENDED BY		
NAME: MANAGER	NFPG	DATE:
APPROVED BY		
NAME:	AFS-400	DATE:

This Special Instrument Approach Procedure shall be conducted in accordance with the instructions specified on the reverse side of this form and the operator's minima as specified in appropriate Letter of Authorization or operations/management specifications. This procedure contains no proprietary information and may be issued to additional users if they are found to meet all criteria and requirements set forth and have been approved by the FAA.

DATE: _____ RECEIVED FOR THE OPERATOR BY: _____ TITLE: _____
SIGNATURE

BY DIRECTION OF THE ADMINISTRATOR _____
SIGNATURE TITLE

EFFECTIVE DATE: _____

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
COPTER RNAV INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ADDITIONAL FLIGHT DATA:

CHART 866 BLDG 415449N / 0840256W
 CHART 886 BLDG 415449N / 0840256W
 CHART 867 POWERLINE 415445N / 0840251W
 CHART 977 TOWER 415450N / 0840257W

NOTES:
 CHART NOTE: USE OF BIXBY MEDICAL CENTER REQUIRES PERMISSION OF THE OWNER; USE OF THIS PROCEDURE REQUIRES SPECIFIC AUTHORIZATION BY FAA FLIGHT STANDARDS.
 CHART PLANVIEW NOTE: LIMIT INITIAL AND INTERMEDIATE APPROACH TO 90 KIAS.
 CHART PLANVIEW NOTE: INCREASE TO 90 KIAS UPON REACHING THE MISSED APPROACH ALTITUDE.

CITY AND STATE ADRIAN, MI	SURFACE ELEVATION: 853 AIRPORT NAME: BIXBY MEDICAL CENTER	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: COPTER RNAV (GPS) 239, ORIG	SUP:
				AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
COORDINATED WITH:		
<input type="checkbox"/> ATA	<input type="checkbox"/> AAT	<input type="checkbox"/> ALPA
<input type="checkbox"/> APA	<input type="checkbox"/> AOPA	<input type="checkbox"/> NBAA
<input type="checkbox"/> OTHER (specify)		
FLIGHT CHECKED BY		
NAME: JAMES N. CRAWFORD	FIFO	DATE:
DEVELOPED BY		
NAME: JEFFREY D. WILSON, MANAGING OWNER, 316-304-6157	<i>Jeffrey D. Wilson</i> APPROVED BY	ASTECH Engineering Inc DATE: 3/5/2011
APPROVED BY		
NAME:	NFPG	DATE:
CHANGES:		
REASONS:		

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.	
INITIAL	PBODI	CADKE	1. 200' AAO	420132.00N/0835933.00W	1110 (2C)	1000	AT890	3000	
			2. TERRAIN	420132.00N/0835933.00W	910 (900)		AS1500	2400	
INITIAL	ADDIC	CADKE	3. 200' AAO	415709.00N/0835533.00W	1040 (2C)	1000	AT960	3000	
			4. TERRAIN	415709.00N/0835533.00W	840 (800)		AS1500	2300	
INTERMEDIATE	CADKE	TAPIO	3.		1040(2C)	500	AT460	2000	
			4.		840 (800)		AS1000	1800	
FINAL	TAPIO	BADCO	5. TOWER(26-001946)	415453.00N/0840134.00W	1018(5D)	250	AC50	1320	
2. PROCEDURE TURN N/A									
3. MISSED APPROACH	MAP:	BADCO	ADG NDB				ASC	3000	
				6. TOWER (26-000640)	415411.00N/0840209.00W	1033(2C)	1000	AC20	2100
	ELEV:	1070		7. TERRAIN	415434.57N/0840341.41W	845 (800)		AS1500	2300
4. CIRCLING	DISTANCE	HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL					
CATEGORY B	1.5 NM		450						
CATEGORY C	1.7 NM		450						
CATEGORY D	2.3 NM		550						
CATEGORY E	4.5 NM		550						
5. MINIMUM SAFE ALTITUDES PRIMARY NAVAID: BADCO									
SECTOR	OBSTRUCTION	BRG / DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG / DIST	ELEVATION (MSL)	M S A
360-360	Tower(26-000991)	003/27.3	2045(1A)	3100					
CITY AND STATE		AIRPORT & ELEVATION		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION	
ADRIAN, MI		BIXBY MEDICAL CENTER, 825		RNAV		COPTER RNAV (GPS) 239, ORIG		AGL	

PART B - SUPPLEMENTAL DATA						PART C - REMARKS: USE ADRIAN-LENAWEE COUNTY ALITMETER SETTINGS; WHEN NOT RECEIVED, USE ANN ARBOR ALTIMETER AND INCREASE MDA 60 FEET. HOSPITAL HELIPAD COORDINATES: 415446.00N/0840256.50W 1070-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS: NO PENETRATIONS VISUAL PORTION OF FINAL PENETRATIONS: 866 BLDG 415449.14N / 0840255.51W (5.44) 886 BLDG 415448.75N / 0840255.78W (29.50) 867 POWERLINE 415445.28N / 0840251.48W (6.19) RASS PRESSURE PATTERNS SAME 4MI9 825, KARB 839 RA=53.457 (54) OBSTACLE #5 LIES IN FINAL SECONDARY AREA BUT FULL ROC APPLIED. PRECIPITOUS TERRAIN EVALUATION COMPLETE. (SEE ATTACHED GRAPHIC PROCEDURE)		
1. COMMUNICATIONS WITH :		2. WEATHER SERVICE		3. ALTIMETER SETTING				
TOLEDO APP CON (KTOL) UNICOM-CTAF (KADG)		<input type="checkbox"/>	N W S	OTHER: ASOS (KADG) ATIS (KARB)	SOURCE: KADG/KARB			
		<input type="checkbox"/>	F A A		DISTANCE: 3.59 / 22.39			
		<input type="checkbox"/>	A / C		HOURS REMOTE OPERATION: 24 / BACKUP			
SATISFACTORY ON:								
<input checked="" type="checkbox"/>	VHF	<input type="checkbox"/>	UHF	<input type="checkbox"/>	HF		LOCATION: KADG / KARB	ADJUSTMENT: 0 / 54
4. MONITOR STATUS	PRIMARY NAVAID:							
	MONITOR POINT:							
	HRS OPTN:	CAT 1						
		CAT 3						
5. APPROACH & RUNWAY LIGHTING	<input type="checkbox"/> ALS							
	<input type="checkbox"/> (S) SALS							
	<input type="checkbox"/> MALS							
	<input type="checkbox"/> HIRL							
	<input type="checkbox"/> MIRL							
	<input type="checkbox"/> REIL							
	<input type="checkbox"/> TDZ							
	<input type="checkbox"/> C/LINE							
<input checked="" type="checkbox"/> OTHER (Specify) STANDARD HELIPORT LIGHTING								
6. RUNWAY MARKINGS	BASIC HOSPITAL HELIPORT PER AC150-5390-2B							
	ALL WEATHER							
	INSTRUMENT							
7. RUNWAY VISUAL RANGE	APPROACH							
	MIDFIELD							
	ROLL OUT							
8. GLIDE PATH	GP ANGLE:			ELEV RWY THRESHOLD:				
	DISTANCE FROM RWY:			ELEV GP ANTENNA:				
	THRESHOLD CROSSING HEIGHT:							
9. FINAL APPROACH COURSE AIMING	<input type="checkbox"/>	RUNWAY THRESHOLD		F T. FROM THRESHOLD				
	<input type="checkbox"/>	ON CENTERLINE		F T. FROM CENTERLINE				
10. WAIVERS: NONE								
PART D - PREPARED BY: JEFFREY D. WILSON, ASTECH ENGINEERING(316-304-6157)					DATE: 3-27-2011			
TITLE:					OFFICE:			

RADIO FIX AND HOLDING DATA RECORD

NAME: ADDIC

STATE: MI

COUNTRY: US

LATITUDE/LONGITUDE: 415548.91N/0835428.70W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX RESTRICTIONS:

SPECIAL COPTER RNAV (GPS) 239, K4MI9, ADRIAN, MI

FIX USE:

USE TYPE
IAP

USE TITLE
COPTER RNAV (GPS) 239

FAC PAT

AIRPORT IDENT
K4MI9

CITY
ADRIAN

STATE
MI (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/29/2009

INITIATED BY:

DATE: 09/29/2009

ORGANIZATION: ASTECH
ENGINEERING INC

NAME: JEFF WILSON

DEVELOPED BY:

DATE: 09/29/2009

OFFICE: AVN-101

NAME: GARY WILSON

NFPO APPROVAL:

DATE:

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: TOL APP CON
OTHER: ASTECH ENGINEERING



RADIO FIX AND HOLDING DATA RECORD

NAME: ADRIAN NDB **STATE:** MI **COUNTRY:** US

LATITUDE/LONGITUDE: 415211.93N/0840438.93W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	ADRIAN	ADG	NDB	MH							17500

FIX RESTRICTIONS:
SPECIAL COPTER RNAV (GPS) 239, K4MI9, ADRIAN, MI

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SW	ADG	NDB	221.74	041.74	L	1		2500	10000	4	9
2	NE	WP	WP	042.00	222.00	R		4	3000	5000	4	4

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001082)	415614.60N/0840730.80W	1207	2C
1	310	TOWER (26-001719)	415713.00N/0841439.00W	1530	5D
2	100	TOWER (26-001576)	415849.00N/0840642.00W	1243	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	NDB RWY 5	KADG	ADRIAN	MI (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	COPTER RNAV (GPS) 239		2	K4MI9	ADRIAN	MI (US)
IAP	NDB RWY 5		1	KADG	ADRIAN	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 09/30/2009

REASON FOR REVISION:
 ADDED FIX USE AT K4MI9
 ADDED WP HOLDING PATTERN AND ALL ASSOCIATED DATA
 ADDED PRECIPITOUS TERRAIN REMARK
 UPDATED LAT/LONG TO MATCH AVNIS
 CIH ENTRIES UPDATED TO CURRENT CRITERIA
 ADDED HOLDING LIMITED REMARK
 UPDATED PAT 1 CONTROLLING OBSTACLES

INITIATED BY: **DATE:** 09/30/2009 **ORGANIZATION:** ASTECH ENGINEERING INC **NAME:** JEFF WILSON

DEVELOPED BY: **DATE:** 09/30/2009 **OFFICE:** AVN-101 **NAME:** GARY WILSON

NFPO APPROVAL: **DATE:** **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: CEN
 ARTCC: ZOB
 ATC FACILITY: TOL APP CON
 OTHER: ASTECH ENGINEERING INC



RADIO FIX AND HOLDING DATA RECORD

NAME: BADGO

STATE: MI

COUNTRY: US

LATITUDE/LONGITUDE: 415510.37N/0840214.70W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX RESTRICTIONS:

SPECIAL COPTER RNAV (GPS) 239, K4MI9, ADRIAN, MI

FIX USE:

USE TYPE
IAP

USE TITLE
COPTER RNAV (GPS) 239

FAC PAT

AIRPORT IDENT
K4MI9

CITY
ADRIAN

STATE
MI (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/29/2009

INITIATED BY:

DATE: 09/29/2009

ORGANIZATION: ASTECH
ENGINEERING INC

NAME: JEFF WILSON

DEVELOPED BY:

DATE: 09/29/2009

OFFICE: AVN-101

NAME: GARY WILSON

NFPO APPROVAL:

DATE:

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: TOL APP CON
OTHER: ASTECH ENGINEERING INC



RADIO FIX AND HOLDING DATA RECORD

NAME: CADKE

STATE: MI

COUNTRY: US

LATITUDE/LONGITUDE: 415812.18N/0835654.84W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

IAP

USE TITLE

COPTER RNAV (GPS) 239

FAC

PAT

AIRPORT IDENT

K4MI9

CITY

ADRIAN

STATE

MI (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/29/2009

INITIATED BY:

DATE: 09/29/2009

ORGANIZATION: ASTECH
ENGINEERING INC

NAME: JEFF WILSON

DEVELOPED BY:

DATE: 09/29/2009

OFFICE: AVN-101

NAME: GARY WILSON

NFPO APPROVAL:

DATE:

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZOB

ATC FACILITY: TOL APP CON

OTHER: ASTECH ENGINEERING INC



RADIO FIX AND HOLDING DATA RECORD

NAME: PBODI

STATE: MI

COUNTRY: US

LATITUDE/LONGITUDE: 420035.57N/0835920.86W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX RESTRICTIONS:

SPECIAL COPTER RNAV (GPS) 239, K4MI9, ADRIAN, MI

FIX USE:

USE TYPE
IAP

USE TITLE
COPTER RNAV (GPS) 239

FAC PAT

AIRPORT IDENT
K4MI9

CITY
ADRIAN

STATE
MI (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/29/2009

INITIATED BY:

DATE: 09/29/2009

ORGANIZATION: ASTECH
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NAME: JEFF WILSON

DEVELOPED BY:

DATE: 09/29/2009

OFFICE: AVN-101

NAME: GARY WILSON

NFPO APPROVAL:

DATE:

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: TOL APP CON
OTHER: ASTECH ENGINEERING INC

QUALITY
5
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TAPIO

STATE: MI

COUNTRY: US

LATITUDE/LONGITUDE: 415623.10N/0840006.79W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX RESTRICTIONS:

SPECIAL COPTER RNAV (GPS) 239, K4MI9, ADRIAN, MI

FIX USE:

USE TYPE
IAP

USE TITLE
COPTER RNAV (GPS) 239

FAC PAT

AIRPORT IDENT
K4MI9

CITY
ADRIAN

STATE
MI (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/29/2009

INITIATED BY:

DATE: 09/29/2009

ORGANIZATION: ASTECH
ENGINEERING INC

NAME: JEFF WILSON

DEVELOPED BY:

DATE: 09/29/2009

OFFICE: AVN-101

NAME: GARY WILSON

NFPO APPROVAL:

DATE:

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: TOL APP CON
OTHER: ASTECH ENGINEERING INC

