

<b>Flight Procedure Tracking Form</b>		<b>Action:</b> FLIGHT CHECK	<b>Task Type:</b> IAP	<b>Date Open:</b> 09/13/2012	<b>Task #:</b> 2008061719757344011	<b>Request #:</b> 20080617197573
<b>Procedure:</b> RADAR-1 AMDT 5			<b>Airport ID:</b> KY19	<b>Airport:</b> MANDAN MUNI		<b>Reimbursable #:</b>
<b>City:</b> MANDAN		<b>ST:</b> ND	<b>GPS #:</b>	<b>Estimated Chart Date:</b> 04/03/2014		<b>FICO #:</b>
<b>Fac ID:</b> BIS		<b>Fac. Type:</b> ASR	<b>Specialist:</b> ERIC N SUSKI			

**Procedure Review**

	Rec'd	Rel'd	Full Name	Comments
<b>Lead:</b>	06/20/2013	11/23/2013	JILL OLSON	<div style="font-size: 2em; color: red; opacity: 0.5;">MAG VAR</div> <div style="font-size: 3em; color: red; position: absolute; top: -20px; right: -20px;">P1</div>
<b>QA:</b>	11/23/2013	12/03/2013	SCOTT BEARD	
<b>Liaison:</b>	12/03/2013		<i>J. Sadorra</i> MAGVAR	

<b>Procedure Comments:</b>	ENROUTE-NON	<b>Remark Type:</b> INFORMATION	<i>plus 4015</i>
<p>MANDAN, ND MANDAN MUNI (KY19) RADAR-1, AMDT 5 ENROUTE-NO FC: 2.18.14 PUB: 4.3.14</p> <p>ATTACHED FORMS: 8260-4; 8260-10; 8260-9; 8260-2(S): 8260-2(S): BISMARCK (BIS) VDME, REV 11.</p> <p>CONTACT: JILL OLSON/MARC SADORRA -AVJ-353 LEADS, 405.954.4014 / 405.954.4546.</p>			

**U.S. DEPARTMENT OF TRANSPORTATION -- FEDERAL AVIATION ADMINISTRATION  
RADAR -- STANDARD INSTRUMENT APPROACH PROCEDURE -- FLIGHT STANDARDS SERVICE -- FAR PART 97.31**

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.

Initial approach minimum altitude(s) shall correspond with those established for enroute operation in the particular area or as set forth below. Positive identification must be established with the radar controller. From initial contact with radar to final authorized landing minimums, the instructions of the radar controller are mandatory except when: (A) Visual contact is established on final approach at or before descent to the authorized landing minimums; or (B) at pilot's discretion if it appears desirable to discontinue the approach.

Except when the radar controller may direct otherwise prior to final approach, a missed approach shall be executed as provided below when: (A) communications on final approach is lost for more than 5 seconds during a precision approach, or for more than 30 seconds during a surveillance approach; (B) directed by radar controllers; (C) visual contact is not established upon descent to authorized landing minimums; or (D) if landing is not accomplished.

RADAR TERMINAL AREA MANEUVERING SECTORS AND ALTITUDES (Sectors and distances measured from radar antenna)												MISSED APPROACH		
FROM	TO	DISTANCE	ALTITUDE	MAP:										
												RWY 13, 31: THLD		
As established by the current BISMARCK ASR Minimum Vectoring Altitude Chart.												RWY 13: CLIMB TO 3500 THEN LEFT TURN DIRECT BIS VOR/DME AND HOLD.		
												RWY 31: CLIMB TO 3500 THEN RIGHT TURN DIRECT BIS VOR/DME AND HOLD.		
												HOLD E, RT, 260.00 INBOUND.		

**MINIMUMS**

TAKEOFF:	STANDARD	<input checked="" type="checkbox"/>	SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: NA	<input type="checkbox"/>	@ STANDARD										
CATEGORY =====>	A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
ASR S-13	2460	1	522	2460	1	522	2460	1 1/2	522	2460	1 1/2	522				
ASR S-31	2440	1	499	2440	1	499	2440	1 3/8	499	2440	1 3/8	499				
CIRCLING	2460	1	516	2460	1	516	2460	1 1/2	516	2560	2	616				

**NOTES:**  
 RWY 13: FAF 5.0 MILES FROM THRESHOLD, MINIMUM ALTITUDE 3500, FINAL APPROACH COURSE 138.22. RECOMMENDED ALTITUDE: 4 MILES 3200, 3 MILES 2900, 2 MILES 2600.  
 RWY 31: FAF 5.0 MILES FROM THRESHOLD, MINIMUM ALTITUDE 3500, FINAL APPROACH COURSE 318.33. RECOMMENDED ALTITUDE: 4 MILES 3200, 3 MILES 2900, 2 MILES 2600.  
 CHART NOTE: ASR S-13: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART NOTE: ASR S-31: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
 CHART NOTE: ASR S-31 STRAIGHT-IN MINIMUMS NA AT NIGHT.  
 CHART NOTE: RWY 31 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT.  
 CHART NOTE: WHEN BIS CONTROL TOWER CLOSED, ASR NA.  
 (SEE FORM 8260)  
 LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

**ADDITIONAL FLIGHT DATA**  
 THRE: 1942 RWY: 13 THRE: RWY:  
 THRE: 1943 RWY: 31 THRE: RWY:  
 RWY 13: FAS OBST: 2209 AAO 465109N/1005518W.  
 RWY 31: FAS OBST: 2179 AAO 464213N/1004925W.  
 +  
 MAG VAR: 6E EPOCH YEAR: 2015

CITY AND STATE	ELEVATION: 1944	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP
MANDAN, ND	AIRPORT NAME: MANDAN MUNI	BIS ASR	RADAR-1, AMDT 5	AMDT: 4
				DATED: 11/09/95



RADAR - **INSTRUMENT APPROACH PROCEDURE**  
 FLIGHT STANDARDS SERVICES FAR PART 97.31

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.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BISMARCK ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET. INCREASE ALL CAT C/D VISIBILITY 1/4 MILE.

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.



CITY AND STATE  MANDAN, ND	ELEVATION: 1944 TDZE: AIRPORT NAME:  MANDAN MUNI	FACILITY IDENTIFIER:  BIS ASR	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  RADAR-1, AMDT 5	SUP:
				AMDT: 4
				DATED: 11/09/95

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
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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:	FIFO	DATE:

DEVELOPED BY		
NAME:	NFPG	DATE:

APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:





PART B - SUPPLEMENTAL DATA										PART C - REMARKS:	
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE				3. ALTIMETER SETTING			PRECIPITOUS TERRAIN EVALUATION COMPLETED.	
BIS APP CON ZMP ARTCC				N W S	OTHER:  AWOS -3		SOURCE: KY19 / KBIS			KY19 AWOS AND KBIS ASOS ARE ON SERVICE A.	
				F A A			DISTANCE: 0 / 6.14			RASS PRESSURE PATTERNS SAME	
				A / C			HOURS REMOTE OPERATION:  24			KY19: 1943.6 FT MSL KBIS: 1661.3 FT MSL RA: 53.65 FT MSL	
SATISFACTORY ON:			X	V H F	X	U H F	H F	LOCATION: KY19		ADJUSTMENT: 0 / 53.65	TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS: RW13 34:1
4. MONITOR STATUS	PRIMARY NAVAID: BIS ASR									1995 TREE (KY19T0014) 464636.29N/1005414.77W (14.80)	
	MONITOR POINT:									1982 TREE (KY19T0001) 464635.22N/1005407.55W (12.83)	
	HRS	CAT 1								1981 TREE (KY19T0017) 464635.10N/1005408.76W (10.72)	
	OPTN:	CAT 3								1980 TREE (KY19T0006) 464635.21N/1005409.62W (8.44)	
5. APPROACH & RUNWAY LIGHTING	ALS									1982 TREE (KY19T0007) 464635.08N/1005411.80W (8.22)	
	(S) SALS									1985 TREE (KY19T0013) 464637.43N-1005414.91W (1.84)	
	MALS									1993 TREE (KY19T0012) 464639.29N-1005414.96W (5.23)	
	HIRL									1978 TREE (KY19T0009) 464637.29N-1005410.67W (0.13)	
	X		MIRL 31 (PCL), 13 (PCL), 22 (PCL), 04 (PCL)								1986 TREE (KY19T0003) 464640.06N-1005410.56W (1.48)
	X		REIL 31 (PCL), 13 (PCL)								RW31 20:1
			TDZ								1958 TREE (KY19T0053) 464548.69N/1005313.74W (9.51)
		C/LINE								1945 GRD (KY19T0051) 464549.60N/1005314.92W (2.63)	
	X	OTHER (SPECIFY) PAPI-2L 31 (PCL), 13 (PCL)									34:1 1984 POLE (KY19T0052) 464538.64N/1005303.27W (1.82)
6. RUNWAY MARKINGS		BASIC									RWY 13 VGS1: 3.00/25
		ALL WEATHER									RWY 31 VGS1: 3.00/25
		INSTRUMENT NPI-G 31, 13									RASS ADJUSTMENT ROUNDED TO 60 FT AND PUBLISHED AS A NOTE.
7. RUNWAY VISUAL RANGE		APPROACH									1000 FT AIRSPACE USE IN MISSED APCH.
		MIDFIELD									RWY 31 MISSED APCH:
		ROLL OUT									ASC 3500
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:					5. TWR (38-000069) 465128.10N/1005521.10W 2337 (4D) 1000 3400.
		DISTANCE FROM RWY:				ELEV GP ANTENNA:					6. TERRAIN 465218.00N/1010124.00W 2074 (2100) AS 1000 3100.
		THRESHOLD CROSSING HEIGHT:									ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
9. FINAL APPROACH COURSE AIMING		X	RUNWAY THRESHOLD				FT. FROM THRESHOLD				CAT A: 1.32NM
		X	ON CENTERLINE				FT. FROM CENTERLINE				CAT B: 1.88NM
10. WAIVERS: NONE											CAT C: 2.95NM
											CAT D: 3.86NM
											NO ADDITIONAL AIRSPACE REQUIRED.
PART D - PREPARED BY: ERIC N SUSKI						DATE: 08/22/2013					
TITLE: AERONAUTICAL INFORMATION SPECIALIST						OFFICE: AJV-353					



**DEVELOPED BY:**            **DATE:** 08/06/2010            **OFFICE:** AVN-120            **NAME:** LARRY STROUT (SCOTT CORY)

**APPROVED BY:**            **DATE:** 03/23/2011            **OFFICE:** AVN-120            **NAME:** GREGORY YAMAMOTO

**SIGNATURE:**

**DISTRIBUTION:**    **NFDC**  
                          **FPO: CEN**  
                          **ARTCC: ZMP**  
                          **ATC FACILITY: BIS APP CON, BIS ATCT**  
                          **OTHER:**





# Federal Aviation Administration

## Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Larry H. Strout, Manager, Central Products Team, AJV-353

Subject: **ACTION:** Magnetic Variation Change for Mandan Muni, Mandan, ND (KY19)

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility' column will be revised effective concurrent with the publication of the procedure(s) listed below.

- RADAR-1, AMDT 5
- RNAV (GPS) RWY 13, ORIG
- RNAV (GPS) RWY 31, ORIG
- VOR-A, AMDT 2

Estimated Chart Date: 03/07/2013

Please publish these changes in the National Flight Data Digest.

### NORTH DAKOTA

<u>Location</u>	<u>Name</u>	<u>Airport /Facility</u>	<u>Identifier</u>	<u>Assigned Magnetic Variation Is</u>	<u>Epoch Year</u>
Mandan	Mandan Muni	Airport	KY19 / Y19	Old 10° East New 6° East	2015

If you have any questions please notify Larry H. Strout, larry.h.strout@faa.gov (405-954-5070).

CONCURRENCES
ROUTING SYMBOL AJV-34 SBaker
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 JOlson
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 LStrout
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-34 JAlfonso
INITIALS/SIG
DATE
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