

RADIO FIX AND HOLDING DATA RECORD

NAME: ABERDEEN VOR/DME **STATE:** SD **COUNTRY:** US **ICAO REGION CODE:** K3

LATITUDE/LONGITUDE: 452502.48N/0982207.39W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	ABERDEEN	ABR	VOR/DME	VH							45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	ABR	VOR/DME	124.00	304.00	R	1		3000	6000	4	5
2	SE	ABR	VOR/DME	125.00	305.00	R	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (46-000426)	452757.00N/0982013.00W	1801	5D
2	200	TOWER (46-000426)	452757.00N/0982013.00W	1801	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 7E (1985).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MINNEAPOLIS			KMSP	MINNEAPOLIS	MN (US)
EN ROUTE	J158					(US)
EN ROUTE	J32					(US)
EN ROUTE	J45					(US)
EN ROUTE	J70					(US)
EN ROUTE	J90					(US)
EN ROUTE	Q19					(US)
EN ROUTE	T405					(US)
EN ROUTE	T462					(US)
EN ROUTE	V15					(US)
EN ROUTE	V170					(US)
EN ROUTE	V263					(US)
EN ROUTE	V344					(US)
IAP	ILS OR LOC RWY 31		1	KABR	ABERDEEN	SD (US)
IAP	RNAV (GPS) RWY 31			KABR	ABERDEEN	SD (US)
IAP	VOR RWY 13		2	KABR	ABERDEEN	SD (US)
IAP	VOR RWY 31		1	KABR	ABERDEEN	SD (US)
IAP	RNAV (GPS) RWY 13			KBTN	BRITTON	SD (US)
IAP	ILS OR LOC RWY 35			KATY	WATERTOWN	SD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 28 **DATE OF REVISION:** 08/07/2025

REASON FOR REVISION:

1. FIX USE: REMOVED DP MEADOW LAKE AT KMSP.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** EMMANUEL GONZALES

APPROVED BY: **DATE:** 07/03/2025 **OFFICE:** AJV-A433 **NAME:** ROBERT HAMILTON

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: BISMARCK VOR/DME

STATE: ND

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 464542.34N/1003955.47W

TYPE:

AIRSPACE DOCKET: 22-AGL-11

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	BISMARCK	BIS	VOR/DME	VL							17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	E	BIS	VOR/DME	091.00	271.00	R	1		3300	8000	4	14
2	NE	BIS	VOR/DME	029.00	209.00	R	1		3600	8000	4	8
3	E	BIS	VOR/DME	080.00	260.00	R	1		3500	8000	4	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (38-000488)	465004.00N/1003120.00W	2242	5D
1	310	AAO	464012.00N/1002621.00W	2382	4E
2	200	TOWER (38-000034)	465116.77N/1003239.47W	2369	2C
3	200	TOWER (38-000488)	465004.00N/1003120.00W	2242	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RADAR 1	KBIS	BISMARCK	ND (US)
1	ILS OR LOC RWY 13	KBIS	BISMARCK	ND (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED MAGVAR: E12/1965

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T268					(US)
EN ROUTE	T462					(US)
EN ROUTE	T475					(US)
EN ROUTE	V15					(US)
EN ROUTE	V169					(US)
EN ROUTE	V2					(US)
EN ROUTE	V510					(US)
EN ROUTE	V55					(US)
EN ROUTE	V71					(US)
IAP	ILS OR LOC RWY 13		1	KBIS	BISMARCK	ND (US)
IAP	ILS OR LOC RWY 31		2	KBIS	BISMARCK	ND (US)
IAP	RADAR 1		1	KBIS	BISMARCK	ND (US)
IAP	RNAV (GPS) RWY 13			KBIS	BISMARCK	ND (US)
IAP	RNAV (GPS) RWY 21			KBIS	BISMARCK	ND (US)
IAP	RNAV (GPS) RWY 3			KBIS	BISMARCK	ND (US)
IAP	RNAV (GPS) RWY 31			KBIS	BISMARCK	ND (US)
IAP	VOR-A		1	KBIS	BISMARCK	ND (US)
IAP	RADAR 1		3	Y19	MANDAN	ND (US)
IAP	VOR-A		3	Y19	MANDAN	ND (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 16

DATE OF REVISION: 08/10/2023

REASON FOR REVISION:

AIRSPACE DOCKET: CHANGED 22-AGL-4 TO 22-AGL-11.
FIX USE: ADDED T475.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 08/10/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: MINOT VOR/DME

STATE: ND

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 481537.21N/1011713.46W

TYPE:

AIRSPACE DOCKET: 23-AGL-20

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	MINOT	MOT	VOR/DME	VH							45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	MOT	VOR/DME	120.00	300.00	L	1		3500	17500	4	16
2	NW	MOT	VOR/DME	314.00	134.00	R	1		3500	17500	12	20
3	E	MOT	VOR/DME	084.00	264.00	L	1		3500	17500	4	16
4	SW	MOT	VOR/DME	247.00	067.00	R	1		3500	17500	4	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (38-000123)	481255.00N/1011908.00W	2446	1D
2	310	TOWER (38-000123)	481255.00N/1011908.00W	2446	1D
3	200	TOWER (38-000123)	481255.00N/1011908.00W	2446	1D
4	200	TOWER (38-000123)	481255.00N/1011908.00W	2446	1D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AVOID MINOT AFB TRAFFIC
PAT 3 AVOID MINOT AFB TRAFFIC

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PAT 2 310K HOLDING FOR KMOT ILS OR LOC RWY 31 CAT E AIRCRAFT.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 13 DEGREES EAST/1965

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	Q971					(US)
EN ROUTE	T331					(US)
EN ROUTE	V15					(US)
EN ROUTE	V430					(US)
EN ROUTE	V491					(US)
IAP	RNAV (GPS) RWY 13			D09	BOTTINEAU	ND (US)
IAP	RNAV (GPS) RWY 26			7K5	KENMARE	ND (US)
IAP	ILS OR LOC RWY 31		2	KMOT	MINOT	ND (US)
IAP	LOC BC RWY 13			KMOT	MINOT	ND (US)
IAP	RNAV (GPS) RWY 26			KMOT	MINOT	ND (US)
IAP	RNAV (GPS) RWY 8			KMOT	MINOT	ND (US)
IAP	VOR RWY 13		2	KMOT	MINOT	ND (US)
IAP	VOR RWY 26		3	KMOT	MINOT	ND (US)
IAP	VOR RWY 31		1	KMOT	MINOT	ND (US)
IAP	VOR RWY 8		4	KMOT	MINOT	ND (US)
IAP	RNAV (GPS) RWY 31			KHBC	MOHALL	ND (US)
IAP	RNAV (GPS) RWY 12			KRUG	RUGBY	ND (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

AIRSPACE DOCKET: CHANGED 22-AGL-11 TO 23-AGL-20.
FIX USE: REMOVED J483. ADDED Q971.
COMPULSORY REPORTING POINT: REMOVED LOW/HIGH - NOT DOCUMENTED OR CHARTED.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE: