

# RADIO FIX AND HOLDING DATA RECORD

NAME: BANGS

STATE: ID

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 440410.21N/1161153.07W

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 NM	FAC FEET	MRA	MAA
1	BOISE	BOI	VORTAC	H	342.52	359.52	31.00	31.00		9100	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V253	1				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 03/26/2020

## REASON FOR REVISION:

REMOVED FROM FIX MAKE-UP ONTARIO ONO NDB DECOMMISSIONED, INT REMOVED.  
FIX MAKE-UP FAC - INCREASED MRA FROM 9000 TO 9100.  
UPDATED FIX LONGITUDE - FIX MOVED 6.57 FEET EAST ON AIRWAY CENTERLINE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: ANTHONY KACZKA

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*  
**WARDELL HENNING**

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZLC  
ATC FACILITY: BOI  
OTHER:

Nov 27, 2019

QUALITY  
32  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: BOISE VORTAC STATE: ID COUNTRY: US ICAO REGION CODE: K1  
 LATITUDE/LONGITUDE: 433310.12N/1161131.65W 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	FEET	MRA	MAA
1	BOISE	BOI	VORTAC	H							45000

## FIX RESTRICTIONS:

MCA V113 8200 NORTHEAST BOUND  
 MCA V253 7500 NORTHBOUND  
 MCA V444 7400 EASTBOUND  
 MCA V500 7400 EASTBOUND

## 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	NW	BOI	VORTAC	301.49	121.49	R	1		6200	40000	8	27
2	E	BOI	VORTAC	072.00	252.00	R	1 1/2		20000	32000	17	23
3	SE	BOI	VORTAC	113.07	293.07	L	1		6000	40000	5	27

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	433618.10N/1160334.90W	6105	6C
3	200	AAO	433609.00N/1160403.00W	5578	4E

## REASON FOR NONSTANDARD HOLDING:

PAT 3 AVOID HIGH TERRAIN

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

HOLDING PAT 1 AND 2 FOR USE BY ATC (NOT CHARTED).  
 PAT 1 CONTROLLING OBSTACLE LIES IN SECONDARY AREA 10280.58 FT FROM EDGE OF PRIMARY (PRIMARY EQUIVALENT 5182.01 MSL).  
 PAT 3 CONTROLLING OBSTACLE LIES IN SECONDARY AREA 12030.71 FT FROM EDGE OF PRIMARY (PRIMARY EQUIVALENT 4583.01 MSL).  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED. ASSIGNED MAGVAR: 17E (1985).

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BOISE			KBOI	BOISE	ID (US)
DP	GOWEN (OBSTACLE)			KBOI	BOISE	ID (US)
EN ROUTE	J15					(US)
EN ROUTE	J163					(US)
EN ROUTE	J517					(US)
EN ROUTE	J54					(US)
EN ROUTE	J7					(US)
EN ROUTE	V113					(US)
EN ROUTE	V253					(US)
EN ROUTE	V330					(US)
EN ROUTE	V4					(US)
EN ROUTE	V444					(US)
EN ROUTE	V500					(US)
IAP	HI-ILS Z OR LOC Z RWY 10R			KBOI	BOISE	ID (US)
IAP	HI-VOR/DME OR TACAN RWY 10R			KBOI	BOISE	ID (US)
IAP	HI-VOR/DME OR TACAN RWY 28L			KBOI	BOISE	ID (US)
IAP	ILS OR LOC RWY 28R			KBOI	BOISE	ID (US)
IAP	ILS Y OR LOC Y RWY 10R		3	KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (CAT II & III)		3	KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (SA CAT I)		3	KBOI	BOISE	ID (US)
IAP	VOR/DME OR TACAN RWY 10L			KBOI	BOISE	ID (US)
IAP	VOR/DME OR TACAN RWY 28L			KBOI	BOISE	ID (US)
IAP	RNAV (GPS) RWY 30			KEUL	CALDWELL	ID (US)
IAP	RNAV (GPS) RWY 11			KMAN	NAMPA	ID (US)
IAP	RNAV (GPS)-B			KMAN	NAMPA	ID (US)
STAR	BEWTE (RNAV)			KBOI	BOISE	ID (US)
STAR	KOURT (RNAV)			KBOI	BOISE	ID (US)
STAR	KYAAN (RNAV)			KBOI	BOISE	ID (US)
STAR	PARMO (RNAV)			KBOI	BOISE	ID (US)
STAR	SADYL (RNAV)			KBOI	BOISE	ID (US)
STAR	SPUUD (RNAV)			KBOI	BOISE	ID (US)

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**WARDELL HENNING**

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 22

**DATE OF REVISION:** 03/26/2020

**REASON FOR REVISION:**

UPDATED FIX RESTRICTIONS - INCREASED MCA V253 FROM 7400 TO 7500 NORTHBOUND.  
DELETED LEG LENGTH TIME 1 1/2 FROM PATTTTERNS 1 AND 3.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** ANTHONY KACZKA

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-A430

**NAME:** LONNIE EVERHART

**SIGNATURE:**

*Digitally signed by*

**WARDELL HENNING**

Nov 27, 2019

**DISTRIBUTION:**

**NFDC**

**FPO:** WST

**ARTCC:** ZLC

**ATC FACILITY:** BOI APP CON

**OTHER:**

QUALITY  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: CANEK

STATE: ID

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 431857.88N/1154828.06W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	BOISE	BOI	VORTAC	H	113.07	130.07	22.00	22.00		7000	17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

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	SE	BOI	VORTAC	113.07	293.07	R	1		9500	17500	10	17
2	NW	BOI	VORTAC	113.07	113.07	L	1		8500	17500	10	17
3	NW		WP	297.07	117.07	L		7	7300	17500	9	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	431412.00N/1152718.00W	7179	4E
2	230	AAO	432351.00N/1153948.00W	6214	4E
3	230	AAO	432507.90N/1153940.90W	6892	6A

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	149
2	230	79
3	230	180

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST.  
PAT 3 ATC REQUEST.

HOLDING RESTRICTIONS:

PAT 2, 3 PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-3203.  
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

ATC REQUEST (PAT 1 & 2).  
PATTERN 3 OBSTACLE IS 7953 FT INTO THE SECONDARY. ACCURACY CODE APPLIED IN EVALUATION. PRIMARY EQUIV. 6068 FT  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
PATTERN 1 AND 2 EVALUATED USING IAPA; PATTERN 3 EVALUATED USING IPDS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V253	1				(US)
EN ROUTE	V330	1				(US)
EN ROUTE	V4	1				(US)
IAP	RNAV (GPS) Y RWY 28L			KBOI	BOISE	ID (US)
IAP	RNAV (GPS) Y RWY 28R			KBOI	BOISE	ID (US)
IAP	RNAV (RNP) Z RWY 10L		3	KBOI	BOISE	ID (US)
IAP	RNAV (RNP) Z RWY 10R		3	KBOI	BOISE	ID (US)
IAP	VOR/DME OR TACAN RWY 28L	1		KBOI	BOISE	ID (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19

DATE OF REVISION: 03/26/2020

REASON FOR REVISION:

DELETED LEG LENGTH TIME 1 1/2 FROM PATTTTERNS 1 AND 2.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: ANTHONY KACZKA

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

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**WARDELL HENNING**

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                         **ARTCC:** ZLC  
                         **ATC FACILITY:** BOI ATCT, BOI APP CON, MOU APP CON  
                         **OTHER:**

