

RADIO FIX AND HOLDING DATA RECORD

NAME: BOISE VORTAC

STATE: ID

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 433310.12N/1161131.67W

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 NM	FAC FEET	MRA	MAA
1	BOISE	BOI	VORTAC	H							45000

FIX RESTRICTIONS:

MCA V444-500 7400 EASTBOUND
MCA V253 7400 NORTHBOUND
MCA V113 8200 NORTHEAST BOUND

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	NW	BOI	VORTAC	301.49	121.49	R	1-1 1/2		6200	40000	8	27
2	E	BOI	VORTAC	072.00	252.00	R	1 1/2		20000	32000		23
3	SE	BOI	VORTAC	113.07	293.07	L	1-1 1/2		6000	40000	5	27
4	SE	BOI	VORTAC	113.07	293.07	L	1-1 1/2		6400	40000	8	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
4	230	AAO	433618.10N/1160334.90W	6105	6C

REASON FOR NONSTANDARD HOLDING:

PAT 3 AVOID HIGH TERRAIN
PAT 4 AVOID HIGH TERRAIN

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

HOLDING PATTERNS 1 & 2 AS PER ATC REQUEST.
PAT 4 FOR MILITARY OPERATIONS.
PAT 1, 6105 AAO LOCATED 10268.44 FT FROM INNER EDGE OF SECONDARY AREA.
PAT 3, 5578 AAO LOCATED 12030.71 FT FROM INNER EDGE OF SECONDARY AREA.
PAT 4, 6105 AAO LOCATED 7352.10 FT FROM INNER EDGE OF SECONDARY AREA.
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			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	V253					(US)
EN ROUTE	V330					(US)
EN ROUTE	V4					(US)
EN ROUTE	V444					(US)
EN ROUTE	V500					(US)
EN ROUTE	V113					ID (US)
IAP	HI-ILS 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 OR LOC Y RWY 10R		3, 4	KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (SA CAT I)		3, 4	KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (CAT II-III)		3, 4	KBOI	BOISE	ID (US)
IAP	NDB RWY 10R			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	NDB RWY 28			KU76	MOUNTAIN HOME	ID (US)
IAP	RNAV (GPS) RWY 11			KMAN	NAMPA	ID (US)
IAP	RNAV (GPS)-B			KMAN	NAMPA	ID (US)
IAP	NDB RWY 33			KONO	ONTARIO	OR (US)
STAR	BEWTE (RNAV)	1		KBOI	BOISE	ID (US)

STAR	KOURT (RNAV)	1	KBOI	BOISE	ID (US)
STAR	KYAAN (RNAV)	1	KBOI	BOISE	ID (US)
STAR	OWYHE (RNAV)	1	KBOI	BOISE	ID (US)
STAR	PARMO (RNAV)	1	KBOI	BOISE	ID (US)
STAR	SADYL (RNAV)	1	KBOI	BOISE	ID (US)
STAR	SPUUD (RNAV)	1	KBOI	BOISE	ID (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

1. CHANGED NDB RWY 32 TO NDB RWY 33 AT KONO IN FIX USE.
2. REMOVED DME FROM HI-ILS OR LOC/DME RWY 10R AND ILS OR LOC/DME RWY 28R AT KBOI.
3. ADDED Y TO ILS OR LOC 10R AND ILS (SA CAT I) AND ILS (CAT II/III) 10R AT KBOI.
4. ADDED Z TO HI-ILS OR LOC RWY 10R AT KBOI.

DEVELOPED BY: **DATE:** 07/06/2017 **OFFICE:** AJV-5431 **NAME:** LIAM DONAHUE

APPROVED BY: **DATE:** **OFFICE:** AJV-5430 **NAME:** PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLC
ATC FACILITY: BOI ATAC, BOI APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: EMETT STATE: ID COUNTRY: US ICAO REGION CODE: K1
 LATITUDE/LONGITUDE: 435450.49N/1163807.41W TYPE: WP, INT, 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 FAC NM	MRA	MAA
1	BOISE	BOI	VORTAC	H	301.49	318.49	29.01	29.01	5600	17500
2	DONNELLY	DNJ	VOR/DME	H	181.00	200.00		54.42	9400	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DNJ	VOR/DME	R-181	55	9400	17500

FIX RESTRICTIONS:

MRA V4-444 9400

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	NW	BOI	VORTAC	301.49	121.49	R		7	7000	17500	9	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	200 AAO	435727.00N/1163148.00W	3271	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

BOISE (FAC 1) AND DONNELLY (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PAT 1: ATC REQUEST.
 PRECIPITIOUS TERRAIN EVALUATION COMPLETED: NO ADJUSTMENT.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V444	1, 2				(US)
IAP	V4	1, 2				(US)
IAP	ILS Y OR LOC Y RWY 10R	1, 2		KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (CAT II)	1, 2		KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (CAT III)	1, 2		KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (SA CAT I)	1, 2		KBOI	BOISE	ID (US)
IAP	VOR/DME OR TACAN RWY 10L	1		KBOI	BOISE	ID (US)
IAP	RNAV (GPS) RWY 12			KEUL	CALDWELL	ID (US)
IAP	RNAV (GPS) RWY 11			KMAN	NAMPA	ID (US)
IAP	RNAV (GPS) - A			KS87	WEISER	ID (US)
IAP	NDB RWY 33	1, 2		KONO	ONTARIO	OR (US)
IAP	RNAV (GPS) RWY 33			KONO	ONTARIO	OR (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

1. CHANGED ALL REFERENCES TO KONO RWY 32 TO KONO RWY 33 IN FIX USE.
 2. ADDED Y TO ALL KBOI ILS 10R PROCEDURES.

08/17/17: THIS IS AN UPDATED COPY OF THE FORM PREPARED ON 07/06/17.

1. CHANGED ILS OR LOC Y RWY 10R TO ILS Y OR LOC Y RWY 10R AT KBOI.

DEVELOPED BY: DATE: 07/06/2017 OFFICE: AJV-5431 NAME: LIAM DONAHUE

APPROVED BY: DATE: OFFICE: AJV-5430 NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: JIMMI

STATE: ID

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 433814.40N/1162627.45W

TYPE: WP, RADAR, 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	MRA	MAA
1	BOISE	I-BOI	LOC/DME		282.13	295.13	11.37	11.39	4000	7300
2	BOISE	BOI	VORTAC	H	278.14	295.14	11.98	11.98	4000	17500

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	W	I-BOI	LOC/DME	282.13	102.13	R	1		4500	7000	5	8
2	W	BOI	VORTAC	278.14	098.14	R	1-1 1/2		4500	17500	5	16
3	W	WP	WP	281.97	101.97	R		5	5000	17500	6	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (16-000004)	433333.00N/1162357.00W	3055	3C
1	230	TOWER (16-000306)	433258.00N/1162441.00W	3095	3C
2	200	TOWER (16-000004)	433333.00N/1162357.00W	3055	3C
2	230	TOWER (16-000306)	433258.00N/1162441.00W	3095	3C
3	200	TOWER (16-000306)	433258.00N/1162441.00W	3095	3C
3	310	AAO	433115.00N/1161600.00W	3258	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	RNAV (GPS) Y RWY 28L	KBOI	BOISE	ID (US)
3	RNAV (RNP) Z RWY 28L	KBOI	BOISE	ID (US)
3	RNAV (GPS) Y RWY 10R	KBOI	BOISE	ID (US)
3	RNAV (GPS) Y RWY 10L	KBOI	BOISE	ID (US)

REMARKS:

BOISE (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
I-BOI DME COORDINATES: 433321.58N/1161219.15W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-ILS OR LOC Z RWY 10R	1, 2	1	KBOI	BOISE	ID (US)
IAP	HI-VOR/DME OR TACAN RWY 10R	2	2	KBOI	BOISE	ID (US)
IAP	HI-VOR/DME OR TACAN RWY 28L	2	2	KBOI	BOISE	ID (US)
IAP	ILS OR LOC Y RWY 10R	1	2	KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (CAT II)	1	2	KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (CAT III)	1	2	KBOI	BOISE	ID (US)
IAP	ILS Y RWY 10R (SA CAT I)	1	2	KBOI	BOISE	ID (US)
IAP	RNAV (GPS) Y RWY 10L		3	KBOI	BOISE	ID (US)
IAP	RNAV (GPS) Y RWY 10R		3	KBOI	BOISE	ID (US)
IAP	RNAV (GPS) Y RWY 28L		3	KBOI	BOISE	ID (US)
IAP	RNAV (RNP) X RWY 28L		3	KBOI	BOISE	ID (US)
IAP	RNAV (RNP) Z RWY 10L			KBOI	BOISE	ID (US)
IAP	RNAV (RNP) Z RWY 10R			KBOI	BOISE	ID (US)
IAP	RNAV (RNP) Z RWY 28L		3	KBOI	BOISE	ID (US)
IAP	VOR/DME OR TACAN RWY 10L	2	2	KBOI	BOISE	ID (US)
IAP	VOR/DME OR TACAN RWY 28L	2	2	KBOI	BOISE	ID (US)
STAR	KYAAN (RNAV)			KBOI	BOISE	ID (US)
STAR	PARMO (RNAV)			KBOI	BOISE	ID (US)

REQUIRED CHARTING: STAR, MILITARY IAP, IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

FAC 1 MAG BRG CHANGED FROM 280.13 TO 282.13. HOLD PAT 1 INBOUND COURSE CHANGED FROM 100.13 TO 102.13, HOLD PAT 3 INBOUND COURSE CHANGED FROM 099.97 TO 101.97, DUE TO MAG VAR UPDATE @ KBOI AND I-BOI E15/2005 TO E13/2020.
FIX USE UPDATED: HI-ILS OR LOC/DME RWY 10R CHANGED TO HI-ILS OR LOC Z RWY 10R, ILS OR LOC/DME RWY 10R TO ILS OR LOC Y RWY 10R @ KBOI.

DEVELOPED BY: **DATE:** 07/06/2017 **OFFICE:** AJV-5431 **NAME:** ROBERT GRIM
APPROVED BY: **DATE:** **OFFICE:** AJV-5430 **NAME:** PATRICK MULQUEEN
SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZLC
 ATC FACILITY: BOI ATCT, BOI APP CON
 OTHER: