

# RADIO FIX AND HOLDING DATA RECORD

NAME: ARDER

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 350005.49N/0865247.68W

TYPE: WP, DME

AIRSPACE DOCKET: 20-ASO-24

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	ROCKET	RQZ	VORTAC	L	313.29	315.29	17.24	17.24		3000	17500

## 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	RQZ	VORTAC	313.29	313.29	R	1	3000 6000	5 6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-002235)	350131.00N/0865236.00W	1247	1A

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR/DME RWY 34	1	1	KGZS	PULASKI	TN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 20-ASO-24.
2. DELETED EN ROUTE V49 AND IAP RNAV (GPS) RWY 18 AT KDCU FROM FIX USE.
3. UPDATED CONTROLLER TO CONTROLLER LOW IN REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZME  
ATC FACILITY: HSV APP CON  
OTHER:

Mar 19, 2021



# RADIO FIX AND HOLDING DATA RECORD

NAME: BOUNT

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 340343.77N/0865456.18W

TYPE: WP

AIRSPACE DOCKET: 20-ASO-24

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**REMARKS:**

MAINTAINED AS A COORDINATION FIX PER ATC REQUEST.

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 08/12/2021

**REASON FOR REVISION:**

1. DELETED DME FROM FIX TYPE.
2. ADDED AIRSPACE DOCKET 20-ASO-24.
3. DELETED FAC 1 AND ASSOCIATED DATA FROM FIX MAKE-UP FACILITIES.
4. ADDED REMARK: MAINTAINED AS A COORDINATION FIX PER ATC REQUEST.
5. DELETED EN ROUTE V49 FROM FIX USE.
6. DELETED DP FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**JON DENTON**

Mar 19, 2021

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZTL  
ATC FACILITY:  
OTHER:



# RADIO FIX AND HOLDING DATA RECORD

NAME: CAPUN

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 334708.38N/0865415.97W

TYPE: WP

AIRSPACE DOCKET: 20-ASO-24

FIX TYPE OF ACTION: MODIFY

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 MIN	ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	N		WP	356.10	176.10	R	6	3000	6000	7 8

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	335336.00N/0865006.00W	1365	2D

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
IPDS LEVEL 1 DTED ACCURACY USED FOR HOLDING OBS.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 18			KBHM	BIRMINGHAM	AL (US)
IAP	RNAV (GPS) Y RWY 24		1	KBHM	BIRMINGHAM	AL (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. DELETED DME FROM FIX TYPE.
2. ADDED AIRSPACE DOCKET 20-ASO-24.
3. DELETED FAC 1 AND ASSOCIATED DATA FROM FIX MAKE-UP FACILITIES.
4. DELETED EN ROUTE V49 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZTL  
ATC FACILITY: BHM APP CON  
OTHER:

Mar 19, 2021

QUALITY  
30  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: DELFI

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 335325.13N/0865431.14W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 20-ASO-24

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	JASPER	I-JFX	LOC/DME		092.86	091.86	20.69	20.71		2800	5000
2	VULCAN	VUZ	VORTAC	H	356.09	358.09	13.19	13.19		2800	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-JFX	LOC/DME	R-093	23	2800	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

JASPER (FAC 1) AND VULCAN (FAC 2) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 27	1, 2		KJFX	JASPER	AL (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 20-ASO-24.
2. UPDATED FAC 2 MAG/TRUE BRG FROM 356.08 TO 356.09.
3. DELETED EN ROUTE V49 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZTL  
ATC FACILITY: BHM APP CON  
OTHER:

Mar 19, 2021



# RADIO FIX AND HOLDING DATA RECORD

NAME: ELKED

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 345040.52N/0865423.36W

TYPE: WP

AIRSPACE DOCKET: 20-ASO-24.

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**REMARKS:**

MAINTAINED FOR ATC PURPOSES.

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 08/12/2021

**REASON FOR REVISION:**

1. CHANGED FIX TYPE FROM DME TO WP.
2. ADDED AIRSPACE DOCKET 20-ASO-24.
3. DELETED FAC 1 AND ASSOCIATED DATA FROM FIX MAKE-UP FACILITIES.
4. ADDED REMARK: MAINTAINED FOR ATC PURPOSES.
5. DELETED EN ROUTE V49 FROM FIX USE.
6. REQUIRED CHARTING: ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZME

ATC FACILITY: HSV APP CON

OTHER:

Mar 19, 2021



# RADIO FIX AND HOLDING DATA RECORD

NAME: FOLSO

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 341124.92N/0865514.83W

TYPE: WP

AIRSPACE DOCKET: 20-ASO-24

FIX TYPE OF ACTION: MODIFY

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	S		WP	174.19	354.19	R	5	3100	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPACE	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (01-001199)	340457.00N/0865413.00W	2056	2C

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
MAINTAINED FOR ATC PURPOSES.

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. DELETED DME FROM FIX TYPE.
2. ADDED AIRSPACE DOCKET 20-ASO-24.
3. DELETED FAC 1 AND ASSOCIATED DATA FROM FIX MAKE-UP FACILITIES.
4. DELETED ON FILE FROM ESV.
5. ADDED REMARK: MAINTAINED FOR ATC PURPOSES.
6. DELETED EN ROUTE V49 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**JON DENTON**

Mar 19, 2021

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZME  
ATC FACILITY:  
OTHER:

QUALITY  
30  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: FOREV

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 355718.65N/0864259.04W

TYPE: DME

AIRSPACE DOCKET: 20-ASO-24

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	NASHVILLE	BNA	VORTAC	H	190.05	188.05	11.00	11.00		2700	17500

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR-A	1		KXNX	GALLATIN	TN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 20-ASO-24.
2. DELETED EN ROUTE V49 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZME

ATC FACILITY: BNA APP CON

OTHER:

Mar 19, 2021



# RADIO FIX AND HOLDING DATA RECORD

NAME: HASEL

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 343109.23N/0865603.15W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 19-ASO-9

FIX TYPE OF ACTION: CANCEL

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	MUSCLE SHOALS	MSL	VORTAC	L	111.00	112.00		29.80		2200	17500
2	DECATUR	DCU	VOR/DME	L	179.06	178.06	7.74	7.74		2200	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

DECATUR (DCU) VOR/DME IS SCHEDULED TO DECOMMISSION IN FY21.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V49	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 05/21/2020

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET NUMBER 19-ASO-9.
2. REQUIRED CHARTING: UPDATED CONTROLLER TO CONTROLLER LOW.
3. FIX MAKE-UP FACILITIES: ADDED DIST FROM FAC NM DATA FOR BOTH FACS; 29.80 FOR FAC1, AND 7.74 FOR FAC2.
4. REMARKS: ADDED DECATUR (DCU) VOR/DME IS SCHEDULED TO DECOMMISSION IN FY21.
5. REMARKS: ADDED FIX COORDINATE DETERMINATION REMARK - IAW 8260.19H 8-5-2E(1).
6. FIX USE: ADDED FACS 1 AND 2 TO V49; REFORMATTED ENTRY.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC  
FPO: ATL  
ARTCC: ZME  
ATC FACILITY:  
OTHER:

Mar 19, 2021

QUALITY  
30  
CHECKED



# RADIO FIX AND HOLDING DATA RECORD

NAME: JOVNA

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 354458.35N/0864507.16W

TYPE: WP

AIRSPACE DOCKET: 20-ASO-24

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
IAP  
IAP

**USE TITLE**

RNAV (GPS) RWY 2  
RNAV (GPS) RWY 18

**FAC**

**PAT**

**AIRPORT IDENT**

KJWN  
KSYI

**CITY**

NASHVILLE  
SHELBYVILLE

**STATE**

TN (US)  
TN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/12/2021

**REASON FOR REVISION:**

1. DELETED DME FROM FIX TYPE.
2. ADDED AIRSPACE DOCKET 20-ASO-24.
3. DELETED FAC 1 AND ASSOCIATED DATA FROM FIX MAKE-UP FACILITIES.
4. DELETED EN ROUTE V49 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**JON DENTON**

Mar 19, 2021

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZME

ATC FACILITY: BNA APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: LOYYI

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 352155.87N/0864904.68W

TYPE: WP

AIRSPACE DOCKET: 20-ASO-24

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV (GPS) Z RWY 36

FAC

PAT

AIRPORT IDENT  
KSYI

CITY  
SHELBYVILLE

STATE  
TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. DELETED DME FROM FIX TYPE.
2. ADDED AIRSPACE DOCKET 20-ASO-24.
3. DELETED FAC 1 AND FAC 2 WITH ASSOCIATED DATA FROM FIX MAKE-UP FACILITIES.
4. DELETED EN ROUTE V49 FROM FIX USE.
5. DELETED EN ROUTE LOW AND CONTROLLER LOW FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZME  
ATC FACILITY: MEM APP CON  
OTHER:

Mar 19, 2021

QUALITY  
30  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MASHA

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 342508.52N/0865548.39W

TYPE: WP, DME

AIRSPACE DOCKET: 20-ASO-24

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	MUSCLE SHOALS	MSL	VORTAC	L	120.63	121.63	32.73	32.73		2500	17500

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V325	1				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 20-ASO-24.
2. DELETED INT FROM FIX TYPE.
3. DELETED FAC 2 DCU VOR/DME AND ASSOCIATED DATA FROM FIX MAKE-UP FACILITIES.
4. REMARKS: DELETED DECATUR (DCU) VOR/DME IS SCHEDULED TO DECOMMISSION IN FY21 AND MUSCLE SHOALS (FAC 1) AND DECATUR (FAC 2) USED TO ESTABLISH FIX COORDINATES.
5. DELETED EN ROUTE V49 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZME  
ATC FACILITY:  
OTHER:

Mar 19, 2021

QUALITY  
30  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: NASHVILLE VORTAC STATE: TN COUNTRY: US ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 360813.06N/0864105.18W TYPE:

AIRSPACE DOCKET: 20-ASO-24 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	NASHVILLE	BNA	VORTAC	H							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	E	BNA	VORTAC	080.87	260.87	L		15	18000	45000	28	29
2	E		WP	080.00	260.00	L		15	18000	45000	28	30

## REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.  
PAT 1 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
FACILITY MAGVAR 2W/1995.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KPCS	CAHOKIA/ST LOUIS	IL (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
DP	BOBZY (RNAV)			KVUJ	ALBEMARLE	NC (US)
DP	BOBZY (RNAV)			KCLT	CHARLOTTE	NC (US)
DP	BOBZY (RNAV)			KJQF	CONCORD	NC (US)
DP	BOBZY (RNAV)			KAKH	GASTONIA	NC (US)
DP	BOBZY (RNAV)			KIPJ	LINCOLNTON	NC (US)
DP	BOBZY (RNAV)			KEQY	MONROE	NC (US)
DP	BOBZY (RNAV)			KRUQ	SALISBURY	NC (US)
DP	BOBZY (RNAV)			KLKR	LANCASTER	SC (US)
DP	BOBZY (RNAV)			KUZA	ROCK HILL	SC (US)
EN ROUTE	J39					(US)
EN ROUTE	J42					(US)
EN ROUTE	J45					(US)
EN ROUTE	J46					(US)
EN ROUTE	J73					(US)
EN ROUTE	Q19					(US)
EN ROUTE	Q32					(US)
EN ROUTE	Q36					(US)
EN ROUTE	V140					(US)
IAP	TACAN RWY 23			KHOP	FT CAMPBELL	KY (US)
IAP	VOR-A			KXNX	GALLATIN	TN (US)
IAP	RNAV (GPS) RWY 01			KM54	LEBANON	TN (US)
IAP	RNAV (GPS) RWY 19			KM54	LEBANON	TN (US)
IAP	ILS OR LOC RWY 2L			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 31			KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2L (CAT II & III)			KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2L (SA CAT I)			KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2R (SA CAT I)			KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) RWY 13			KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20L			KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20R			KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2L			KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2R			KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 31			KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) RWY 20			KJWN	NASHVILLE	TN (US)
IAP	ILS OR LOC/DME RWY 32			KMQY	SMYRNA	TN (US)
STAR	ROME			KATL	ATLANTA	GA (US)
STAR	BOOSH (RNAV)			KSTL	ST LOUIS	MO (US)
STAR	BLUZZ (RNAV)		2	KMEM	MEMPHIS	TN (US)
STAR	WLDER		1	KMEM	MEMPHIS	TN (US)

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



**COMPULSORY REPORTING POINT:** NO**RECORD REVISION NUMBER:** 35**DATE OF REVISION:** 08/12/2021**REASON FOR REVISION:**

1. ADDED AIRSPACE DOCKET 20-ASO-24.
2. FIX USE: DELETED EN ROUTE V49 AND UPDATED KMQY ILS OR LOC RWY 32 TO ILS OR LOC/DME RWY 32.

**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** SYLVAN DRAKES**APPROVED BY:****DATE:****OFFICE:** AJV-A430**NAME:** LONNIE EVERHART**SIGNATURE:** *Digitally signed by***JON DENTON****DISTRIBUTION:****NFDC****FPO:** EST**ARTCC:** ZME**ATC FACILITY:** BNA APP CON, BNA ATCT**OTHER:**

Mar 19, 2021



# RADIO FIX AND HOLDING DATA RECORD

NAME: VULCAN VORTAC

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 334012.48N/0865359.41W

TYPE:

AIRSPACE DOCKET: 20-ASO-24

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	VULCAN	VUZ	VORTAC	H						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	NE		WP	049.00	229.00	R		7	3000	10000	9	12
2	SW	VUZ	VORTAC	230.00	050.00	R	1		3000	10000	4	9
3	NE	VUZ	VORTAC	046.00	226.00	R	1		3000	10000	4	9

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	335336.00N/0865006.00W	1365	4E
2	200	TOWER (01-001564)	334114.00N/0864922.00W	1082	2C
3	200	TOWER (01-001564)	334114.00N/0864922.00W	1082	2C

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ASSIGNED FACILITY MAGVAR: 2 DEGREES EAST.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HUNTSVILLE			KHSV	HUNTSVILLE	AL (US)
DP	NASSA (RNAV)			KATL	ATLANTA	GA (US)
DP	CHATTANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	NASHVILLE			KBNA	NASHVILLE	TN (US)
EN ROUTE	J14					(US)
EN ROUTE	J151					(US)
EN ROUTE	J22					(US)
EN ROUTE	J31					(US)
EN ROUTE	J39					(US)
EN ROUTE	J41					(US)
EN ROUTE	J52					(US)
EN ROUTE	J69					(US)
EN ROUTE	Q116					(US)
EN ROUTE	Q30					(US)
EN ROUTE	V115					(US)
EN ROUTE	V159					(US)
EN ROUTE	V168					(US)
EN ROUTE	V18					(US)
EN ROUTE	V209					(US)
EN ROUTE	V278					(US)
EN ROUTE	V417					(US)
EN ROUTE	V521					(US)
EN ROUTE	V7					(US)
IAP	ILS Z OR LOC Z RWY 5			KANB	ANNISTON	AL (US)
IAP	ILS OR LOC RWY 5		2	KEYK	BESSEMER	AL (US)
IAP	RNAV (GPS) RWY 23			KEYK	BESSEMER	AL (US)
IAP	VOR RWY 5			KEYK	BESSEMER	AL (US)
IAP	ILS OR LOC RWY 24		3	KBHM	BIRMINGHAM	AL (US)
IAP	ILS OR LOC RWY 6		3	KBHM	BIRMINGHAM	AL (US)
IAP	ILS RWY 24 (SA CAT II)		3	KBHM	BIRMINGHAM	AL (US)
IAP	ILS RWY 6 (CAT II)		3	KBHM	BIRMINGHAM	AL (US)
IAP	LOC RWY 18			KBHM	BIRMINGHAM	AL (US)
IAP	RNAV (GPS) RWY 36		1	KBHM	BIRMINGHAM	AL (US)
IAP	RNAV (GPS) Y RWY 24			KBHM	BIRMINGHAM	AL (US)
IAP	ILS OR LOC RWY 24			KGAD	GADSDEN	AL (US)
IAP	RNAV (GPS) RWY 6			KGAD	GADSDEN	AL (US)
IAP	ILS OR LOC RWY 18L			KHSV	HUNTSVILLE	AL (US)
IAP	ILS OR LOC RWY 27			KJFX	JASPER	AL (US)
IAP	VOR/DME-A			KJFX	JASPER	AL (US)
IAP	RNAV (GPS) RWY 6			K20A	ONEONTA	AL (US)
IAP	ILS Z OR LOC Z RWY 04			KASN	TALLADEGA	AL (US)
STAR	LAGRANGE			KATL	ATLANTA	GA (US)
STAR	ROME			KATL	ATLANTA	GA (US)

QUALITY  
30  
CHECKED

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 27

**DATE OF REVISION:** 08/12/2021

**REASON FOR REVISION:**

1. ADDED AIRSPACE DOCKET 20-ASO-24.
2. DELETED EN ROUTE V49 FROM FIX USE.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** SYLVAN DRAKES

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-A430

**NAME:** LONNIE EVERHART

**SIGNATURE:**

*Digitally signed by*

**JON DENTON**

Mar 19, 2021

**DISTRIBUTION:**

**NFDC**

**FPO:** ATL

**ARTCC:** ZTL

**ATC FACILITY:** BHM APP CON

**OTHER:**

QUALITY  
30  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: ZUSMA

STATE: AL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 335413.72N/0865433.09W

TYPE: WP, DME

AIRSPACE DOCKET: 20-ASO-24

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	VULCAN	VUZ	VORTAC	H	356.08	358.08	14.00	14.00		3100	17500

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR/DME-A	1		KJFX	JASPER	AL (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 20-ASO-24.
2. DELETED EN ROUTE V49 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**JON DENTON**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZTL

ATC FACILITY: BHM APP CON

OTHER:

Mar 19, 2021

QUALITY  
30  
CHECKED