

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: 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	NW	BNA	VORTAC	315.19	135.19	R	1	3000 6000	4 5
2	NW	BNA	VORTAC	336.00	156.00	R	1-1 1/2	7000 16000	8 15
3	E	BNA	VORTAC	080.87	260.87	L	15	18000 45000	28 29
4	E	WP	WP	078.00	258.00	L	15	18000 45000	28 30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-000685)	361550.00N/0864739.00W	2049	3D
2	230	TOWER (47-000685)	361550.00N/0864739.00W	2049	3D

REASON FOR NONSTANDARD HOLDING:

PAT 4 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.
 PAT 3 ATC REQUEST. 15 NM LEG LENGTHS ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

DO NOT CHART HOLD PAT 2/USED FOR ATC OVERFLOW.
 HOLD PAT 1 CONTROLLING OBSTACLE IS 4131.52 FT INTO THE SECONDARY AREA, PRIMARY EQ 1378.01 FT.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 MAGVAR: 2W/1995

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BIRMINGHAM			KBHM	BIRMINGHAM	AL (US)
DP	HUNTSVILLE			KHSV	HUNTSVILLE	AL (US)
DP	PENCL (RNAV)			KATL	ATLANTA	GA (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KCPS	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)
DP	CHATTANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	NASHVILLE			KBNA	NASHVILLE	TN (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)
EN ROUTE	V49					(US)
IAP	RNAV (GPS) RWY 18			KHOP	FT CAMPBELL	KY (US)
IAP	RNAV (GPS) RWY 23			KHOP	FT CAMPBELL	KY (US)
IAP	RNAV (GPS) RWY 17			KM33	GALLATIN	TN (US)
IAP	RNAV (GPS) RWY 35			KM33	GALLATIN	TN (US)
IAP	VOR/DME-A			KM33	GALLATIN	TN (US)
IAP	RNAV (GPS) RWY 01			KM54	LEBANON	TN (US)
IAP	RNAV (GPS) RWY 19			KM54	LEBANON	TN (US)
IAP	VOR/DME-A			KM54	LEBANON	TN (US)
IAP	NDB RWY 18			KMBT	MURFREESBORO	TN (US)

QUALITY
24
CHECKED

IAP	ILS OR LOC RWY 20R		KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2C		KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2L		KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 31		KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC/DME RWY 20L		KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC/DME RWY 2R		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 (CAT II & III)		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	VOR/DME RWY 13		KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC/DME RWY 20		KJWN	NASHVILLE	TN (US)
IAP	RNAV (GPS) RWY 20		KJWN	NASHVILLE	TN (US)
IAP	ILS OR LOC/DME RWY 32		KMQY	SMYRNA	TN (US)
IAP	VOR/DME RWY 14	1	KMQY	SMYRNA	TN (US)
IAP	VOR/DME RWY 32		KMQY	SMYRNA	TN (US)
IAP	LOC RWY 4 (ALT MISS)	1	KM91	SPRINGFIELD	TN (US)
SPECIAL DP	ZELAN (RNP-1)		KATL	ATLANTA	GA (US)
STAR	ROME		KATL	ATLANTA	GA (US)
STAR	BOOSH (RNAV)		KSTL	ST LOUIS	MO (US)
STAR	QBALL		KSTL	ST LOUIS	MO (US)
STAR	BLUZZ (RNAV)	4	KMEM	MEMPHIS	TN (US)
STAR	WLDER	3	KMEM	MEMPHIS	TN (US)
STAR	GUITR		KMBT	MURFREESBORO	TN (US)
STAR	HEHAW		KMBT	MURFREESBORO	TN (US)
STAR	VOLLS		KMBT	MURFREESBORO	TN (US)
STAR	GUITR		KBNA	NASHVILLE	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)
STAR	VOLLS		KBNA	NASHVILLE	TN (US)
STAR	GUITR		KJWN	NASHVILLE	TN (US)
STAR	HEHAW		KJWN	NASHVILLE	TN (US)
STAR	VOLLS		KJWN	NASHVILLE	TN (US)
STAR	GUITR		KMQY	SMYRNA	TN (US)
STAR	HEHAW		KMQY	SMYRNA	TN (US)
STAR	VOLLS		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 25

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

ADDED FACILITY MAGVAR TO REMARKS BLOCK.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/27/2016

OFFICE: AJV-5431

NAME: SEAN BARBEE

APPROVED BY: **DATE:**

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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



RADIO FIX AND HOLDING DATA RECORD

NAME: HIKRY STATE: TN COUNTRY: US ICAO REGION CODE: K7
 LATITUDE/LONGITUDE: 361828.81N/0863642.00W TYPE: WP, RADAR, 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	NASHVILLE	I-VIY	LOC		020.65	017.65		12.21	4000	5000
2	NASHVILLE	BNA	VORTAC	H			10.85	10.85	4000	5000

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES DME	MIN	MAX	TEMPLATES MIN	MAX
1	N		WP	020.69	200.69	R		4	4000	10000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-023527)	362614.71N/0863646.85W	1205	2C
1	230	TOWER (47-000967)	363136.00N/0864114.00W	2049	5D
1	310	TOWER (47-002272)	361604.95N/0864744.70W	2049	2B

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) Y RWY 2L	KBNA	NASHVILLE	TN (US)
1	RNAV (RNP) Z RWY 2L	KBNA	NASHVILLE	TN (US)
1	RNAV (GPS) Y RWY 2C	KBNA	NASHVILLE	TN (US)
1	RNAV (RNP) Z RWY 2C	KBNA	NASHVILLE	TN (US)

REMARKS:

NASHVILLE (FAC 1) AND NASHVILLE (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 20R	1, 2		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20R		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2C		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2L		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 20R			KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2C		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2L		1	KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

CHANGED PAT 1 200K OBSTACLE FROM 1142 MSL AAO TO 1205 MSL TOWER (47-023527).

DEVELOPED BY: DATE: 06/15/2016 OFFICE: AJV-5431 NAME: SEAN BARBEE

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

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZME
 ATC FACILITY: BNA APP CON; BNA ATCT
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: OPERY

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 361225.08N/0863905.13W

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	FAC FEET	MRA	MAA
1	NASHVILLE	I-VIY	LOC		020.65	017.65		5.86	35594	2000	5000
2	NASHVILLE	BNA	VORTAC	H			4.50	4.50		2000	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NASHVILLE (FAC 1) AND NASHVILLE (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 20R	1, 2		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20R			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

FIX MOVED 282.17 FT.
CHANGED FAC 1 DIST FROM FAC FROM 5.81 NM TO 5.86 NM AND FROM 35312 FT TO 35594 FT IN FIX MAKE-UP FACILITIES BLOCK.
CHANGED FAC 2 DME TO FIX FROM 4.45 DME TO 4.50 DME AND DIST FROM FAC FROM 4.45 NM TO 4.50 NM.

DEVELOPED BY:

DATE: 07/29/2016

OFFICE: AJV-5431

NAME: SEAN BARBEE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON; BNA ATCT
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: RONLE

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 355547.34N/0864535.86W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	S		WP	200.61	020.61	L	4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-001005)	355516.60N/0864226.20W	1597	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AVOID CONFLICT WITH HOLDING PATTERNS RWY 02C/02R

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	RNAV (GPS) Y RWY 20R		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2L		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 20R		1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (RNP) Z RWY 2L			KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

CHANGED CONTROLLING OBSTACLE FROM 1547 MSL TOWER (47-002306) TO 1597 MSL TOWER (47-001005).

DEVELOPED BY:

DATE: 07/14/2016

OFFICE: AJV-5431

NAME: SEAN BARBEE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

QUALITY
24
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TANDS STATE: TN COUNTRY: US ICAO REGION CODE: K7
 LATITUDE/LONGITUDE: 363212.96N/0863348.65W 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 FEET	MAA
1	NASHVILLE	BNA	VORTAC	H	015.75	013.75	24.68	24.68	2700	17500
2	LIVINGSTON	LVT	VOR/DME	L	270.00	268.00		67.58	3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LVT	VOR/DME	R-270	68	3000	17500

FIX RESTRICTIONS:

MRA ALL 3000

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	N	BNA	VORTAC	015.75	195.75	L	1-1 1/2	3000 17500	6 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-000250)	362804.00N/0862839.00W	1502	5E

REASON FOR NONSTANDARD HOLDING:

PAT 1 PROVIDE SEPARATION FROM DEPARTURE ROUTE

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

NASHVILLE (FAC 1) AND LIVINGSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-49	1, 2				(US)
IAP	ILS OR LOC RWY 3			KBWG	BOWLING GREEN	KY (US)
IAP	ILS OR LOC RWY 2C	1, 2	1	KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) RWY 20C			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) RWY 20			KJWN	NASHVILLE	TN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

CHANGED FAC 2 NAVAID TYPE FROM VORTAC TO VOR/DME FOR TACR.
 CHANGED PAT 1 HOLDING MIN TEMPLATE FROM 7 TO 6 AND MAX TEMPLATE FROM 18 TO 17.
 ADDED NOTE "NASHVILLE (FAC 1) AND LIVINGSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES" TO REMARKS BLOCK.
 UPDATED FIX USE.

DEVELOPED BY: DATE: 06/15/2016 OFFICE: AJV-5431 NAME: SEAN BARBEE

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

SIGNATURE:

DISTRIBUTION:

NFDC
 FPO: EST
 ARTCC: ZME
 ATC FACILITY: BNA APP CON; BNA ATCT
 OTHER:

