

RADIO FIX AND HOLDING DATA RECORD

NAME: CIBES

STATE: NH

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 424811.03N/0713328.07W

TYPE: INT

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	NASHUA	I-ASH	LOC		318.69	302.69		2.90		740	4600
2	MANCHESTER	MHT	VOR/DME	L	259.77	244.77		9.19		740	4600

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2		KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/22/2021

REASON FOR REVISION:

1. CHANGED FAC 1/2 MRA FROM 660 TO 740.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: JAMES LAFFERTY

APPROVED BY:

DATE: 08/24/2023

OFFICE: AJV-A432

NAME: CHRISTOPHER WILKINSON

SIGNATURE:

Digitally signed by

CASIMIR L TABAKA

Dec 13, 2023

DISTRIBUTION:

NFDC

FPO:

ARTCC: ZBW

ATC FACILITY: ASH TOWER, BOS APP CON

OTHER:

QUALITY
12
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LODTI

STATE: NH

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 425126.06N/0714021.97W

TYPE: WP, RADAR, INT

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	NASHUA	I-ASH	LOC		318.69	302.69		8.92		2500	4600
2	GARDNER	GDM	VOR/DME	L	056.27	042.27		25.29		2500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NASHUA (FAC 1) AND GARDNER (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2		KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 14			KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. LATITUDE/LONGITUDE: CHANGED FROM 425113.87N/0713956.05W TO 425126.06N/0714021.97W TO MEET SATISFACTORY INTERSECTION CRITERIA.
2. FIX TYPE: ADDED RADAR.
3. FIX MAKE-UP FACILITIES: AMENDED NASHUA (I-ASH) DIST FROM FAC TO REFLECT NEW LAT/LONG POSITION.
4. FIX MAKE-UP FACILITIES: REMOVED MHT VOR AND ADDED GDM VOR.
5. REMARKS: CHANGED REMARK FROM MANCHESTER (FAC 2) TO GARDNER (FAC 2) TO ESTABLISH FIX COORDINATES.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER WILKINSON

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA

Dec 13, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: MUGGY

STATE: NH

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 425344.72N/0714517.22W

TYPE: WP, INT, 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	FEET	MRA	MAA
1	NASHUA	I-ASH	LOC		318.69	302.69		13.22		3000	4600
2	CONCORD	CON	VOR/DME	L	217.15	202.15		20.98		3000	17500
3	GARDNER	GDM	VOR/DME	L	046.50	032.50		24.91		3800	17500

FIX RESTRICTIONS:

MCA T316 3100 WESTBOUND

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		WP	318.69	138.69	L		4	3800	6000	5	6
2	NW	I-ASH	LOC	318.69	138.69	L	1		3800	4600	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	425309.00N/0715157.00W	2458	4B
2	200	AAO	425309.00N/0715157.00W	2458	4B

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.

PAT 2 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

NASHUA (FAC 1) AND CONCORD (FAC 2) USED TO ESTABLISH FIX COORDINATES.

CHART ON SECTIONAL - ATC REQUEST.

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	T316					
IAP	ILS OR LOC RWY 14	1, 2, 3	2	KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 14		1	KASH	NASHUA	NH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: REMOVED MHT VOR AND ADDED GDM VOR.

2. HOLDING CONTROLLING OBSTRUCTIONS: UPDATED OBSTACLE ELEVATION AND ACCURACY CODE WITH NEW MITRE 3ARCSEC DTED RESULTS.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER WILKINSON

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA

Dec 13, 2023

QUALITY
12
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NORIY

STATE: NH

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 424930.28N/0713616.06W

TYPE: WP, INT

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	NASHUA	I-ASH	LOC		318.69	302.69		5.34 32469	1600	4600
2	GARDNER	GDM	VOR/DME	L	064.02	050.02		26.14 158855	1600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NASHUA (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2		KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 14			KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: REMOVED MHT VOR AND ADDED GDM VOR.
2. REMARKS: REMOVED "RNP FORMULA USED TO ESTABLISH FIX COORDINATES."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER WILKINSON

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA
Dec 13, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: PELAN

STATE: NH

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 424520.00N/0711947.41W

TYPE: WP, INT, 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	MANCHESTER	I-MHT	LOC/DME		171.53	156.53	12.42	12.41	2500	4700
2	GARDNER	GDM	VOR/DME	L	082.45	068.45	34.61	34.61	2000	6000
3	CONCORD	CON	VOR/DME	L	173.69	158.69	29.87	29.87	2000	6000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
GDM	VOR/DME	R-082	35	2000	2200

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	E		WP	082.45	262.45	R		4	2000	6000	4	6
2	E	GDM	VOR/DME	082.45	262.45	R	1		2000	6000	5	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (33-023160)	424900.40N/0711611.50W	869	2C
2	200	TOWER (33-023160)	424900.40N/0711611.50W	869	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

MANCHESTER (FAC 1) USED TO ESTABLISH FIX COORDINATES.
I-MHT DME COORDINATES: 425642.13N/0712635.39W
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35	1		KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT II & III)	1		KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (SA CAT I)	1		KMHT	MANCHESTER	NH (US)
IAP	RNAV (GPS) Y RWY 35			KMHT	MANCHESTER	NH (US)
IAP	RNAV (RNP) Z RWY 35			KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 14	2, 3	2	KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 14		1	KASH	NASHUA	NH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. TYPE: ADDED INT TO FIX TYPE
2. FIX MAKE-UP: ADDED GDM AND CON AS FIX MAKE-UP FACILITIES.
3. ADDED GDM ESV.
4. PATTERNS: UPDATED PATTERN 1 RADIAL/CRS/BRG FROM 086.63 TO 082.45 AND CRS INBOUND FROM 266.83 TO 262.45 AND ADDED PATTERN 2.
5. CONTROLLING OBSTRUCTIONS: UPDATED PATTERN 1 CONTROLLING OBSTACLE FROM 980 TOWER (33-000085) 424407.00N/0712335.00W (4D) TO 869 TOWER (33-023160) 424900.40N/0711611.50W (2C) AND ADDED CONTROLLING OBSTACLE FOR PATTERN 2.
6. FIX USE: ADDED KASH ILS OR LOC RWY 14 WITH ASSOCIATED FACILITIES AND PATTERN.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER WILKINSON

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA
Dec 13, 2023

