

RADIO FIX AND HOLDING DATA RECORD

NAME: LAWRN STATE: MA COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 421211.70N/0714934.07W TYPE: 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	GARDNER	GDM	VOR/DME	L	167.26	153.26	23.00	23.00	2500	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	S	GDM	VOR/DME	167.26	347.26	L	1		2700	6000	5	6
2	S	GDM	VOR/DME	167.26	347.26	L	1		3100	6000	5	13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (25-000622)	420313.00N/0714904.00W	1548	5D
2	310	TOWER (25-000157)	422009.00N/0714255.00W	2048	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 11 CAT II/III	KORH	WORCESTER	MA (US)
2	ILS OR LOC RWY 11	KORH	WORCESTER	MA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11	1	2	KORH	WORCESTER	MA (US)
IAP	ILS OR LOC RWY 11 CAT II/III	1	2	KORH	WORCESTER	MA (US)
IAP	VOR/DME RWY 33	1	1	KORH	WORCESTER	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

CHANGED HOLDING LIMITED TO ESTABLISHED PATTERN TO HOLDING LIMITED TO ESTABLISHED PATTERNS
ADDED PAT 2 AND UPDATED 310 OBSTACLE FROM ANTENNA (25-030076) 421833.99N/0715411.29W 1681 TO TOWER (25-000157) 422009.00N/0714255.00W 2048 5D
CHANGE PAT 1 MAX HOLDING TEMPLATE FROM 5 TO 6
ADDED REASON FOR NONSTANDARD HOLDING PAT 2 ATC REQUEST
CHANGED FIX USE PATTERN FOR KORH ILS OR LOC RWY 11 AND CAT II AND III FROM PAT 1 TO PAT 2
REMOVED NOTE GARDNER (FAC 1) USED TO ESTABLISH FIX COORDINATES

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: ROSE BOONE-WALT

APPROVED BY:

DATE: 05/18/2023

OFFICE: AJV-A421

NAME: JASON KRETSCHMER

SIGNATURE:

Digitally signed by
JASON KRETSCHMER
May 16, 2023

QUALITY
10
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RILOC

STATE: MA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 421624.42N/0720053.75W

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	WORCESTER	I-RSR	LOC/DME	T	288.84	273.84	5.50	6.76	41096	2800	5400
2	GARDNER	GDM	VOR/DME	L	187.28	173.28		16.46		2800	5400

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	W		WP	288.76	108.76	L		4	3000	6000	5	6
2	W	I-RSR	LOC/DME	288.84	108.84	L	1		2800	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	421903.00N/0715527.00W	1405	4E
2	200	AAO	421859.62N/0715527.01W	1420	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

WORCESTER (FAC 1) AND GARDNER (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED
I-RSR DME COORDINATES 421608.21N/0715330.15W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11	1, 2	2	KORH	WORCESTER	MA (US)
IAP	ILS OR LOC RWY 11 CAT II/III			KORH	WORCESTER	MA (US)
IAP	RNAV (GPS) RWY 11			KORH	WORCESTER	MA (US)
IAP	RNAV(GPS) RWY 29		1	KORH	WORCESTER	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

FAC 1 I-RSR DME CHANGED FROM 5.44 TO 5.50 - RSR DME ANTENNA MOVED 428 FT FROM 421605.50N/0715334.53W TO 421608.21N/0715330.15W
ADDED GARDNER (FAC 2) TO FACILITIES USED TO ESTABLISH FIX COORDINATES

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: ROSE BOONE-WALT

APPROVED BY:

DATE: 05/18/2023

OFFICE: AJV-A421

NAME: JASON KRETSCHMER

SIGNATURE:

Digitally signed by
JASON KRETSCHMER
May 16, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: SPENO STATE: MA COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 421648.55N/0720914.70W 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	WORCESTER	I-RSR	LOC/DME		288.84	273.84	11.71	12.97		3000	5400
2	GARDNER	GDM	VOR/DME	L	209.00	195.00		16.50		3000	17500
3	CHESTER	CTR	VOR/DME	L	103.81	090.81	35.43	35.43		4000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CTR	VOR/DME	R-104	36	18000	45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

WORCESTER (FAC 1) AND GARDNER (FAC 2) USED TO ESTABLISH FIX COORDINATES.
 DEPICT FAC 3 (CTR) ON HIGH ENROUTE CHARTS PER ATC REQUEST FOR VECTORING AND AUTOMATION REQUIREMENTS.
 I-RSR DME COODINATES: 421608.21N/0715330.15W
 CHART ON SECTIONAL - ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLZZR (RNAV)			KBOS	BOSTON	MA (US)
DP	REVSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
EN ROUTE	T315					(US)
EN ROUTE	V270	2, 3				(US)
IAP	RNAV (GPS) RWY 32			KORE	ORANGE	MA (US)
IAP	ILS OR LOC RWY 11	1, 2		KORH	WORCESTER	MA (US)
IAP	ILS RWY 11 (CAT II & III)	1, 2		KORH	WORCESTER	MA (US)
IAP	RNAV (GPS) RWY 11			KORH	WORCESTER	MA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19 DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

CHANGED FAC 1 (I-RSR) DME FROM 11.65 TO 11.71 - I-RSR DME COODINATES CHANGED FROM 421605.50N/0715334.53W TO 421608.21N/0715330.15W EKW DME ANTENNA MOVED 428 FT

INITIATED BY: DATE: ORGANIZATION: NAME:
 OFFICE OF PRIMARY RESPONSIBILITY: AJV-A421 NAME: ROSE BOONE-WALT
 APPROVED BY: DATE: 05/18/2023 OFFICE: AJV-A421 NAME: JASON KRETSCHMER

SIGNATURE: Digitally signed by
JASON KRETSCHMER
 May 16, 2023

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