

## RADIO FIX AND HOLDING DATA RECORD

NAME: ANSLY

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 415525.95N/0705818.81W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/13/2014

REASON FOR REVISION:

FIX MOVED .35 NM NORTHEAST.  
UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/24/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: AWLIN

STATE: CT

COUNTRY: US

LATITUDE/LONGITUDE: 413322.48N/0715956.97W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/13/2014

DEVELOPED BY:

DATE: 06/24/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: BANKI

STATE: CT

COUNTRY: US

LATITUDE/LONGITUDE: 413544.39N/0715203.63W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

## 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	264.19	084.19	R	10	16000 23000	16 20

## CONTROLLING OBSTRUCTIONS:

PAT	AIR SPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (09-000279)	412503.00N/0721153.28W	1511	2C

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	ROBUC (RNAV)		1	KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/13/2014

DEVELOPED BY: DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY: DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: BBOGG

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420556.98N/0704109.06W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/13/2014

REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: BENNN

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421046.29N/0704528.54W

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 NM	FAC FEET	MRA	MAA
1	BOSTON	I-LIP	LOC/DME		151.18	135.18	14.95	16.69		4000	6000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-LIP	LOC/DME	R-151	25	2000	10000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

LOC/DME ANTENNA COORDINATES: 422126.66N-0705935.05W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 33L	1		KBOS	BOSTON	MA (US)
IAP	ILS RWY 33L (CAT II)	1		KBOS	BOSTON	MA (US)
IAP	ILS RWY 33L (CAT III)	1		KBOS	BOSTON	MA (US)
IAP	ILS RWY 33L (SA CAT I)	1		KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 33L			KBOS	BOSTON	MA (US)
STAR	ROBUC (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY: DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY: DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
 FPO: EST  
 ARTCC: ZBW  
 ATC FACILITY: BOS APP CON, BOS ATCT  
 OTHER:

QUALITY  
 2  
 CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: BEREI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420032.09N/0704820.74W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE  
DP  
STARUSE TITLE  
BRUWN (RNAV)  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOS  
KBOSCITY  
BOSTON  
BOSTONSTATE  
MA (US)  
MA (US)

REQUIRED CHARTING: DP, STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: BOXRS

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420616.24N/0710417.45W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
STAR

USE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOS

CITY  
BOSTON

STATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/26/2016

DEVELOPED BY:

DATE: 12/22/2015

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: CHERS

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422418.51N/0705547.58W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
STAR

USE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOS

CITY  
BOSTON

STATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/26/2016

DEVELOPED BY:

DATE: 12/22/2015

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED



## RADIO FIX AND HOLDING DATA RECORD

NAME: CRADL

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420036.88N/0704547.55W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: ERNEI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 415641.29N/0711230.68W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

FIX MOVED .08 NM NORTH.  
UPDATED LAT/LONG.  
UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: ETHYN

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421933.13N/0703319.59W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/13/2014

REASON FOR REVISION:

FIX USE UPDATED.

DEVELOPED BY:

DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: FEXXX

STATE: CT

COUNTRY: US

LATITUDE/LONGITUDE: 411239.54N/0725459.76W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

## FIX USE:

## USE TYPE

STAR  
STAR

## USE TITLE

OOSHN (RNAV)  
ROBUC (RNAV)

## FAC

## PAT

## AIRPORT IDENT

KBOS  
KBOS

## CITY

BOSTON  
BOSTON

## STATE

MA (US)  
MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/13/2014

DEVELOPED BY:

DATE: 06/18/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZBW

ATC FACILITY: BOS APP CON

OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: GOSHI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420211.09N/0710947.14W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/13/2014

REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: HOKDU

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422043.93N/0703355.81W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

1. FIX MOVED 1.39 NM NORTH. FIX NAME RETAINED FOR ATC OPERATIONAL REQUIREMENTS.
2. UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: ISLAY

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422946.42N/0710339.16W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

NAME CHANGED FROM CHYAN TO ISLAY.

## FIX USE:

## USE TYPE

STAR  
STAR

## USE TITLE

JFUND (RNAV)  
ROBUC (RNAV)

## FAC

## PAT

## AIRPORT IDENT

KBOS  
KBOS

## CITY

BOSTON  
BOSTON

## STATE

MA (US)  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/26/2016

## REASON FOR REVISION:

FIX NAME CHANGED.  
UPDATED FIX USE.

DEVELOPED BY:

DATE: 12/21/2015

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: JAYNA

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 414915.90N/0711213.60W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
STAR

USE TITLE  
ROBUC (RNAV)

FAC PAT AIRPORT IDENT CITY  
KBOS BOSTON

STATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/26/2016

DEVELOPED BY: DATE: 12/22/2015

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY: DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED



## RADIO FIX AND HOLDING DATA RECORD

NAME: JOODY

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 414707.37N/0711715.23W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

## 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	256.22	076.22	L	10	9000 18000	15 17

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (25-000325)	415213.00N/0711743.00W	1148	4D

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	ROBUC (RNAV)		1	KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/13/2014

DEVELOPED BY: DATE: 06/25/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY: DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

## DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: KLANE

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422450.78N/0704050.09W

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 NM	FAC FEET	MRA	MAA
1	BOSTON	I-DGU	LOC/DME		092.58	076.58	15.32	15.35		4000	5000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DGU	LOC/DME	R-093	16	4500	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 27	1		KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 27			KBOS	BOSTON	MA (US)
STAR	OOSHN (RNAV)			KBOS	BOSTON	MA (US)
STAR	ROBUC (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 05/26/2016

## REASON FOR REVISION:

UPDATED FIX USE, ADDED OOSHN STAR.

DEVELOPED BY:

DATE: 12/22/2015

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: KLEBB

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420630.28N/0703658.08W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE  
STAR  
STARUSE TITLE  
OOSHN (RNAV)  
ROBUC (RNAV)

FAC PAT

AIRPORT IDENT  
KBOS  
KBOSCITY  
BOSTON  
BOSTONSTATE  
MA (US)  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

UPDATED FIX USE INFORMATION.

DEVELOPED BY:

DATE: 06/23/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: KRANN

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 415118.69N/0710724.46W

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	FAC FEET	MRA	MAA
1	PROVIDENCE	PVD	VORTAC	H	074.17	060.17	15.82	15.80		5000	17500
2	BOSTON	BOS	VOR/DME	H	208.00	192.00		30.71		5000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

PROVIDENCE (FAC 1) AND BOSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES  
 FAC 2 (BOS) MAG BRG 208.00 IS A FLIGHT INSPECTED VALUE. COMPUTED VALUE IS 207.27.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	NORWICH	1, 2		KBOS	BOSTON	MA (US)
STAR	ROBUC (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/26/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
 FPO: EST  
 ARTCC: ZBW  
 ATC FACILITY: BOS APP CON  
 OTHER:

QUALITY  
 2  
 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MAANO

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421323.87N/0711133.25W

TYPE: DME

AIRSPACE DOCKET:

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	BOSTON	BOS	VOR/DME	H	244.40	228.40	12.10			2000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

ATC COORDINATION FIX

REQUIRED CHARTING: AREA, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/26/2016

## REASON FOR REVISION:

REMOVED WP FROM FIX TYPE.  
UPDATED FIX USE, REMOVED ROBUC (RNAV) STAR.  
REMOVED STAR FROM REQUIRED CHARTING.

DEVELOPED BY:

DATE: 01/05/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: MERIT

STATE: CT

COUNTRY: US

LATITUDE/LONGITUDE: 412255.02N/0730814.75W

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	LA GUARDIA	LGA	VOR/DME	L	054.52	042.52	48.86	48.86		4000	17500
2	HAMPTON	HTO	VORTAC	H	320.00	307.00		46.42		4000	17500
3	CARMEL	CMK	VOR/DME	L	084.92	072.92		20.97		4000	17500
4	MADISON	MAD	VOR/DME	L	294.62	281.62		20.53		4000	17500
5	HARTFORD	HFD	VOR/DME	L	252.90	239.90		30.80		4000	45000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LGA	VOR/DME	R-055	49	4000	17500
HTO	VORTAC	R-320	47	4000	17500
HFD	VOR/DME	R-253	31	17100	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

LA GUARDIA (FAC 1) AND HAMPTON (FAC 2) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MORRISTOWN	1		KMMU	MORRISTOWN	NJ (US)
DP	LIBERTY	1		KEWR	NEWARK	NJ (US)
DP	NEWARK	1		KEWR	NEWARK	NJ (US)
DP	PORTT (RNAV)			KEWR	NEWARK	NJ (US)
DP	RUUDY (RNAV)			KTEB	TETERBORO	NJ (US)
DP	TETERBORO	1		KTEB	TETERBORO	NJ (US)
DP	FARMINGDALE			KFRG	FARMINGDALE	NY (US)
DP	LONG ISLAND			KISP	ISLIP	NY (US)
DP	BETTE			KJFK	NEW YORK	NY (US)
DP	GREKI			KJFK	NEW YORK	NY (US)
DP	HAPIE			KJFK	NEW YORK	NY (US)
DP	KENNEDY			KJFK	NEW YORK	NY (US)
DP	MERIT	5		KJFK	NEW YORK	NY (US)
DP	SKORR (RNAV)			KJFK	NEW YORK	NY (US)
DP	GLDMN (RNAV)			KLGA	NEW YORK	NY (US)
DP	JUTES (RNAV)			KLGA	NEW YORK	NY (US)
DP	LA GUARDIA			KLGA	NEW YORK	NY (US)
DP	TNNIS (RNAV)			KLGA	NEW YORK	NY (US)
DP	WESTCHESTER			KHPN	WHITE PLAINS	NY (US)
EN ROUTE	V99	1, 2, 3, 4				(US)
STAR	OOSHN (RNAV)			KBOS	BOSTON	MA (US)
STAR	ROBUC (RNAV)			KBOS	BOSTON	MA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 10/15/2015

## REASON FOR REVISION:

ADDED RADAR TO FIX TYPE.

ADDED FAC 5 (HFD).

ADDED FAC 5 TO MERIT ON FIX USE FOR CHARTING.

DEVELOPED BY: DATE: 05/28/2015

OFFICE: AJV-352

NAME: KELLY DEAN

APPROVED BY: DATE:

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: N90  
OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: MYNOT

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421707.81N/0704501.99W

TYPE: WP, 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 NM	FAC FEET	MRA	MAA
1	BOSTON	BOS	VOR/DME	H	128.00	112.00	11.48	11.48		4000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LIGHT VISUAL RWY 33L	1		KBOS	BOSTON	MA (US)
STAR	ROBUC (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY: DATE: 06/21/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY: DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: NEWES

STATE: NY

COUNTRY: US

LATITUDE/LONGITUDE: 405120.21N/0732641.77W

TYPE: WP, 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 NM	FAC FEET	MRA	MAA
1	KENNEDY	JFK	VOR/DME	H	060.00	048.00	20.00	20.00		18000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J225	1				(US)
STAR	NORWICH	1		KBOS	BOSTON	MA (US)
STAR	ROBUC (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY: DATE: 06/26/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY: DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZNY, ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED



## RADIO FIX AND HOLDING DATA RECORD

NAME: NUNZO

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420151.20N/0711213.36W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE  
IAP  
STARUSE TITLE  
RNAV (GPS) RWY 4L  
ROBUC (RNAV)

FAC PAT

AIRPORT IDENT  
KBOS  
KBOSCITY  
BOSTON  
BOSTONSTATE  
MA (US)  
MA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 02/04/2016

## REASON FOR REVISION:

UPDATED FIX USE.  
ADDED IAP TO REQUIRED CHARTING.

DEVELOPED BY:

DATE: 10/21/2015

OFFICE: AJV-5423

NAME: PABLO ORTIZ

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: GEORGE GONZALEZ

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: PROVI

STATE: RI

COUNTRY: US

LATITUDE/LONGITUDE: 414325.46N/0712554.17W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

## 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	SW		WP	235.00	055.00	R	10	11000 18000	15 17

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (44-000125)	414812.00N/0713325.00W	1048	5D

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	OOSHN (RNAV)			KBOS	BOSTON	MA (US)
STAR	ROBUC (RNAV)		1	KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/13/2014

DEVELOPED BY: DATE: 06/19/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY: DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO:  
ARTCC:  
ATC FACILITY:  
OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: PTRIK

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423138.24N/0704914.28W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/13/2014

REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/26/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: RDHOK

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422936.10N/0710320.94W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPESTAR  
STAR

## USE TITLE

OOSHN (RNAV)  
ROBUC (RNAV)

## FAC

## PAT

## AIRPORT IDENT

KBOS  
KBOS

## CITY

BOSTON  
BOSTON

## STATE

MA (US)  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/26/2016

DEVELOPED BY:

DATE: 12/22/2015

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: ROBUC

STATE: RI

COUNTRY: US

LATITUDE/LONGITUDE: 414044.11N/0713506.42W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/13/2014

DEVELOPED BY:

DATE: 06/26/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: RUIZE

STATE: CT

COUNTRY: US

LATITUDE/LONGITUDE: 412845.63N/0721233.94W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NAME CHANGED FROM GIGTY TO RUIZE.

FIX USE:

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

STAR

ROBUC (RNAV)

KBOS

BOSTON

MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

FIX NAME CHANGED

DEVELOPED BY:

DATE: 12/22/2015

OFFICE:

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZBW

ATC FACILITY: BOS APP CON

OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: SOFEE

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 415035.42N/0711532.13W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

MOVED FIX 1.30 ENE, FIX NAME RETAINED FOR ATC OPERATIONAL REQUIREMENTS.

UPDATED FIX LAT/LONG.

UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/26/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZBW

ATC FACILITY: BOS APP CON

OTHER:

QUALITY  
2  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

CANCELLED

5/26/2016

NAME: STRKK

STATE: CT

COUNTRY: US

LATITUDE/LONGITUDE: 412845.63N/0721233.94W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
STAR

USE TITLE  
KRANN (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOS

CITY  
BOSTON

STATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 12/15/2011

DEVELOPED BY: DATE: 06/24/2011

OFFICE: AJV-352

NAME: DONALD SMITH (DAVID SAUER)

APPROVED BY: DATE: 10/26/2011

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

QUALITY  
2  
CHECKED



## RADIO FIX AND HOLDING DATA RECORD

NAME: TAALE

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423734.55N/0704618.74W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STARUSE TITLE  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT  
KBOSCITY  
BOSTONSTATE  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/13/2014

REASON FOR REVISION:

UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/26/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: TKMAN

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423454.97N/0711051.19W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPESTAR  
STAR

USE TITLE

OOSHN (RNAV)  
ROBUC (RNAV)

FAC

PAT

AIRPORT IDENT

KBOS  
KBOS

CITY

BOSTON  
BOSTON

STATE

MA (US)  
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/26/2016

DEVELOPED BY:

DATE: 12/23/2015

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZBW

ATC FACILITY: BOS APP CON

OTHER:

QUALITY  
2  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: WINNI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420701.71N/0710728.22W

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 NM	FAC FEET	MRA	MAA
1	LOGAN INTL	I-BOS	LOC/DME		215.74	199.74	16.90	16.89		3000	10000
2	BOSTON	BOS	VOR/DME	H	218.70	202.70	15.62	15.62		3000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-BOS	LOC/DME	R-216	30	3000	10000

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	SW	BOS	VOR/DME	218.70	038.70	R	1		3000	6000	5	6
2	SW		WP	218.70	038.70	R		4	3000	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	420700.00N/0711254.00W	719	4E
2	200	AAO	420700.00N/0711254.00W	719	4E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

LOC/DME COORDINATES: 42257.47N/0705950.81W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 04R	1		KBOS	BOSTON	MA (US)
IAP	ILS OR LOC RWY 22L	2	1	KBOS	BOSTON	MA (US)
IAP	ILS RWY 04R (CAT II)	1		KBOS	BOSTON	MA (US)
IAP	ILS RWY 04R (CAT III)	1		KBOS	BOSTON	MA (US)
IAP	ILS RWY 04R (SA CAT I)	1		KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 04R			KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 22L		2	KBOS	BOSTON	MA (US)
STAR	ROBUC (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/13/2014

## REASON FOR REVISION:

UPDATED FIX USE.  
 ADDED TO REMARKS "HOLDING LIMITED TO ESTABLISHED PATTERNS."

DEVELOPED BY: DATE: 06/26/2014

OFFICE: AJV-352

NAME: GEORGETTE BARNETT

APPROVED BY: DATE: 11/13/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC  
 FPO: EST  
 ARTCC: ZBW  
 ATC FACILITY: BOS APP CON  
 OTHER:

QUALITY  
 2  
 CHECKED