

RADIO FIX AND HOLDING DATA RECORD

NAME: ADDDA

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423620.25N/0704655.46W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
OOSHN (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: 11/13/2014

DEVELOPED BY: **DATE:** 06/16/2014

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: AJJAY

STATE: ME

COUNTRY: US

LATITUDE/LONGITUDE: 434340.55N/0693608.22W

TYPE: WP

AIRSPACE DOCKET:

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 TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NE		WP	038.20	218.20	L		20	24000	39000	30	30

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	Q822					(US)
STAR	OOSHN (RNAV)		1	KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/13/2014

REASON FOR REVISION:

1. ADDED Q822 TO FIX USE.

DEVELOPED BY:

DATE: 06/12/2014

OFFICE: AJV-354

NAME: GREGORY MILLS

APPROVED BY:

DATE: 11/13/2014

OFFICE: AJV-354

NAME: JILL OLSON

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: AYBEE

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422626.01N/0703140.48W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
OOSHN (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: 11/13/2014

DEVELOPED BY: **DATE:** 06/16/2014

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: BECHH

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422012.83N/0705016.49W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

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

FAC

PAT

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

UPDATED FIX USE, CHANGED QUABN STAR TO JFUND.

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: BRGIT

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423325.12N/0704152.30W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STARUSE TITLE
OOSHN (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: 06/16/2014

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: CUJKE

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 410947.03N/0703348.84W

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	MARCONI	LFV	VOR/DME	H	221.00	205.00	56.44	56.44		18000	45000
2	NANTUCKET	ACK	VOR/DME	H	268.84	253.84	25.33	25.33		18000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

MARCONI (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J62	1, 2				(US)
EN ROUTE	J79	1, 2				(US)
STAR	OOSHN (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/18/2014

REASON FOR REVISION:

DELETED SCUPP STAR FROM FIX USE.

DEVELOPED BY:

DATE: 04/09/2014

OFFICE: AJV-352

NAME: JACOB POWERS (JOHN THORNTON)

APPROVED BY:

DATE: 09/18/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: CURLI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420055.04N/0710354.34W

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 NM	FAC FEET	MRA	MAA
1	NORWOOD	I-OWD	LOC/DME		169.77	154.77	11.95	11.95		2200	4500
2	PROVIDENCE	PVD	VORTAC	H	057.00	043.00		23.91		2200	4500
3	BOSTON	BOS	VOR/DME	H	205.35	189.35		20.80		2200	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC RWY 35	1, 2		KOWD	NORWOOD	MA (US)
IAP	RNAV (GPS) RWY 35			KOWD	NORWOOD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

UPDATED FIX USE INFORMATION, DELETED OOSHN (RNAV) STAR
REMOVED STAR FROM REQUIRED CHARTING.

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, OWD ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CUTOX

STATE: NY

COUNTRY: US

LATITUDE/LONGITUDE: 405253.28N/0714711.87W

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	092.00	080.00	91.71	91.71		18000	45000
2	NANTUCKET	ACK	VOR/DME	H	268.84	253.84	83.38	83.38		18000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

KENNEDY (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J62	1, 2				(US)
EN ROUTE	J79	1, 2				(US)
STAR	OOSHN (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/18/2014

REASON FOR REVISION:

DELETED SCUPP STAR FROM FIX USE.

DEVELOPED BY:

DATE: 04/09/2014

OFFICE: AJV-352

NAME: JACOB POWERS (JOHN THORNTON)

APPROVED BY:

DATE: 09/18/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: KENNEBUNK VOR/DME

STATE: ME

COUNTRY: US

LATITUDE/LONGITUDE: 432532.42N/0703648.69W

TYPE:

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	KENNEBUNK	ENE	VOR/DME	H							45000

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	NE	ENE	VOR/DME	062.00	242.00	L	1-1 1/2	3000 17500	4 16
2	E	ENE	VOR/DME	082.00	262.00	L	1	2400 6000	4 12
3	W	ENE	VOR/DME	267.54	087.54	R	1	2400 6000	4 5
4	E	ENE	VOR/DME	081.00	261.00	L	1	2000 6000	4 5
5	NE	ENE	VOR/DME	044.00	224.00	L	1 1/2	24000 39000	19 27
6	NE		WP	044.00	224.00	L		17000 45000	30 30
7	NE		WP	062.00	242.00	L		3000 6000	5 13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	432218.00N/0704009.00W	578	4E
2	200	AAO	432218.00N/0704009.00W	578	4E
2	310	AAO	432303.00N/0704709.00W	1126	4E
3	200	AAO	432303.00N/0704709.00W	1126	4E
4	200	AAO	432218.00N/0704009.00W	578	4E
6	265	TOWER (23-000419)	435044.24N/0704540.76W	2549	2C
7	200	AAO	432218.00N/0704009.00W	578	4E
7	310	AAO	432748.00N/0704436.00W	804	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
 PAT 2 ATC REQUEST
 PAT 5 ATC REQUEST
 PAT 4 ATC REQUEST
 PAT 6 ATC REQUEST
 PAT 7 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 7	KSFM	SANFORD	ME (US)
7	RNAV (GPS) RWY 32	KSFM	SANFORD	ME (US)
7	RNAV (GPS) RWY 6	KB19	BIDDEFORD	ME (US)
7	RNAV (GPS) RWY 7	KSFM	SANFORD	ME (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 PAT 6 MAG VAR JFK 14W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKR			KPSM	PORTSMOUTH	NH (US)
DP	BETTE			KJFK	NEW YORK	NY (US)
DP	GREKI			KJFK	NEW YORK	NY (US)
DP	HAPIE			KJFK	NEW YORK	NY (US)
DP	MERIT			KJFK	NEW YORK	NY (US)
EN ROUTE	J121					(US)
EN ROUTE	J55					(US)
EN ROUTE	J573					(US)
EN ROUTE	Q480					(US)
EN ROUTE	Q822					(US)
EN ROUTE	T295					(US)

INFO ONLY

EN ROUTE	V106				(US)
EN ROUTE	V139				(US)
EN ROUTE	V167				(US)
EN ROUTE	V496				(US)
EN ROUTE	V93	1			(US)
IAP	ILS OR LOC RWY 4		KLEW	AUBURN/LEWISTON	ME (US)
IAP	RNAV (GPS) RWY 6	7	KB19	BIDDEFORD	ME (US)
IAP	VOR RWY 6	3	KB19	BIDDEFORD	ME (US)
IAP	ILS OR LOC/DME RWY 1R		KBXM	BRUNSWICK	ME (US)
IAP	NDB RWY 32		KIZG	FRYEBURG	ME (US)
IAP	NDB-B		KIZG	FRYEBURG	ME (US)
IAP	ILS OR LOC RWY 11	2	KPWM	PORTLAND	ME (US)
IAP	ILS OR LOC RWY 29	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (CAT II - III)	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT I)	2	KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 11		KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 29		KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 36		KPWM	PORTLAND	ME (US)
IAP	ILS OR LOC RWY 13		KRKD	ROCKLAND	ME (US)
IAP	RNAV (GPS) RWY 31		KRKD	ROCKLAND	ME (US)
IAP	ILS OR LOC RWY 7	2	KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 32	7	KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 7	7	KSFM	SANFORD	ME (US)
IAP	VOR RWY 25	4	KSFM	SANFORD	ME (US)
IAP	VOR RWY 7	2	KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 24		KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	ILS OR LOC RWY 34		KPSM	PORTSMOUTH	NH (US)
IAP	VOR RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	VOR RWY 34		KPSM	PORTSMOUTH	NH (US)
IAP	NDB RWY 33		KDAW	ROCHESTER	NH (US)
IAP	RNAV(GPS) RWY 33		KDAW	ROCHESTER	NH (US)
STAR	OOSH (RNAV)	6	KBOS	BOSTON	MA (US)
STAR	PARCH (RNAV)	6	KFRG	FARMINGDALE	NY (US)
STAR	ROBER	5	KFRG	FARMINGDALE	NY (US)
STAR	PARCH (RNAV)	6	KJFK	NEW YORK	NY (US)
STAR	ROBER	5	KJFK	NEW YORK	NY (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH**COMPULSORY REPORTING POINT:** NO**RECORD REVISION NUMBER:** 29**DATE OF REVISION:** 12/10/2015**REASON FOR REVISION:**

UPDATED PAT 6 CONTROLLING OBSTRUCTION FROM 1165 MSL TOWER 23-000093 AT 432500.30N/0704815.20W, AC 5E TO 2549 MSL TOWER 23-000419 AT 435044.24N/0704540.76W, AC 2C.

UPDATED PATTERN 7 CONTROLLING OBSTACLES: 200 KT PATTERN OBSTACLE CHANGED FROM 589 MSL AAO AT 433045.01N/0703702.39W, AC 2C TO 578 MSL AAO AT 433218.00N/0704009.00W, AC 4E; 310 KT PATTERN OBSTACLE CHANGED FROM 929 MSL AAO AT 432330.00N/0704657.00W, AC 4E TO 804 MSL AAO AT 432748.00N/0704436.00W, AC 4E.

UPDATED FIX MAKE UP DESCRIPTION FOR KPWM ILS RWY 11 (SA CAT I-II) TO ILS RWY 11 (SA CAT I).

DEVELOPED BY: **DATE:** 08/21/2015 **OFFICE:** AJV-5412 **NAME:** MIKE MELSSSEN

APPROVED BY: **DATE:** 11/27/2015 **OFFICE:** AJV-5410 **NAME:** GEORGE GONZALEZ

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: EURRO

STATE: OA

COUNTRY: US

LATITUDE/LONGITUDE: 423902.67N/0700516.55W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
OOSHN (RNAV)

FAC

PAT

AIRPORT IDENT
KBOS

CITY
BOSTON

STATE
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:** 06/17/2014

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: FERNZ

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 415035.40N/0694653.11W

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 ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	S		WP	180.00	360.00	R	20	16000 30000	30 30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (25-000161)	414649.10N/0700034.17W	515	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

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

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

LOWERED PAT 1 MIN ALTITUDE FROM 24000.

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:

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: FLUTI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422444.74N/0705311.93W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STARUSE TITLE
OOSHN (RNAV)

FAC

PAT

AIRPORT IDENT
KBOSCITY
BOSTONSTATE
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

MOVED FIX 0.59 NM SOUTH.

DEVELOPED BY:

DATE: 03/30/2012

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 07/05/2012

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: FOSTY

STATE: RI

COUNTRY: US

LATITUDE/LONGITUDE: 415035.46N/0713831.34W

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	FEET	MRA	MAA
1	NORTH KINGSTOWN	I-OQU	LOC/DME		340.00	325.00	18.59	18.58		2500	4500
2	NORWICH	ORW	VOR/DME	L	056.92	042.92	23.53	23.53		2500	17500
3	PUTNAM	PUT	VOR/DME	H	140.57	126.57	11.28	11.28		3000	17500
4	PROVIDENCE	PVD	VORTAC	H	320.85	306.85	11.90	11.90		2500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-OQU	LOC/DME	R-325	19	2200	4500

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	SW	ORW	VOR/DME	056.92	056.92	L	1-1 1/2	2500 17500	5 17
2	SW	PUT	WP	237.00	057.00	L	4	2500 17500	5 17
3	NW	PUT	VOR/DME	140.57	140.57	L	1	2500 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (44-000083)	415032.00N/0714011.00W	1069	5D
2	200	TOWER (44-000083)	415032.00N/0714011.00W	1069	5D
3	200	TOWER (44-000083)	415032.00N/0714011.00W	1069	5D

REASON FOR NONSTANDARD HOLDING:

PAT 2 AIRWAY SEPARATION

PAT 1 AIRWAY SEPARATION

PAT 3 AIRWAY SEPARATION

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

NORWICH (FAC 2) AND PUTNAM (FAC 3) USED TO ESTABLISH FIX COORDINATES

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

I-OQU DME COORDINATES: 413520.15N-0712419.93W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V146	3, 4				(US)
EN ROUTE	V151	3, 4				(US)
EN ROUTE	V16	2, 3	1			(US)
EN ROUTE	V3	2, 3				(US)
EN ROUTE	V405	3, 4				(US)
IAP	ILS OR LOC RWY 16			KOQU	NORTH KINGSTOWN	RI (US)
IAP	RNAV (GPS) RWY 16			KOQU	NORTH KINGSTOWN	RI (US)
IAP	RNAV (GPS) RWY 34		2	KOQU	NORTH KINGSTOWN	RI (US)
IAP	LOC RWY 5	2, 3	1	KSFZ	PAWTUCKET	RI (US)
IAP	LOC RWY 5 (ALT MISSED)	3	3	KSFZ	PAWTUCKET	RI (US)
IAP	RNAV (GPS) RWY 5		2	KSFZ	PAWTUCKET	RI (US)
IAP	VOR-A	2, 3	1	KSFZ	PAWTUCKET	RI (US)
IAP	VOR-B	2, 3	1	KSFZ	PAWTUCKET	RI (US)
IAP	ILS OR LOC RWY 23	2, 3	1	KPVD	PROVIDENCE	RI (US)
IAP	ILS OR LOC RWY 5	2, 3	1	KPVD	PROVIDENCE	RI (US)
IAP	ILS OR LOC/DME RWY 34	2, 3	1	KPVD	PROVIDENCE	RI (US)
IAP	ILS RWY 5 (CAT II & III)	2, 3	1	KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) RWY 16			KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) RWY 34		2	KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) RWY 5		2	KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) Y RWY 23		2	KPVD	PROVIDENCE	RI (US)
IAP	RNAV (RNP) Z RWY 23		2	KPVD	PROVIDENCE	RI (US)
IAP	VOR RWY 34	2, 3, 4	1	KPVD	PROVIDENCE	RI (US)
IAP	VOR RWY 5	2, 4	1	KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 16	2, 4	1	KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 23	2, 4	1	KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 34	2, 4	1	KPVD	PROVIDENCE	RI (US)
STAR	OOSHN (RNAV)			KBOS	BOSTON	MA (US)
STAR	WOONS	2, 3, 4		KBOS	BOSTON	MA (US)
STAR	SCOGS (RNAV)			KPWM	PORTLAND	ME (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 12/10/2015

REASON FOR REVISION:

AMENDED PAT 1, PAT 2, AND PAT 3 CONTROLLING OBSTACLE FROM 1070 MSL TOWER TO 1069 MSL TOWER.

DEVELOPED BY: **DATE:** 07/07/2015

OFFICE: AJV-5413

NAME: PETER GUIMOND

APPROVED BY: **DATE:** 11/17/2015

OFFICE: AJV-5410

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZBW

ATC FACILITY: PVD APP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: GGABE

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421629.28N/0705703.28W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STARUSE TITLE
JFUND (RNAV)
OOSHN (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: 05/26/2016

REASON FOR REVISION:

UPDATED FIX USE, CHANGED QUABN STAR TO JFUND.

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: GRGIO

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423509.36N/0703354.40W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STARUSE TITLE
OOSHN (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: 07/09/2014

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: GRIFI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421842.17N/0705605.73W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STARUSE TITLE
JFUND (RNAV)
OOSHN (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: 05/26/2016

REASON FOR REVISION:

UPDATED FIX USE, CHANGED QUABN STAR TO JFUND.

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: HNOVR

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423207.43N/0704947.85W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STARUSE TITLE
OOSHN (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: 06/23/2014

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: IYANA

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 420316.48N/0704940.68W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
OOSHN (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:

RADIO FIX AND HOLDING DATA RECORD

NAME: JOBEE

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421041.96N/0705932.15W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STARUSE TITLE
JFUND (RNAV)
OOSHN (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: 05/26/2016

REASON FOR REVISION:

UPDATED FIX USE, CHANGED QUABN STAR TO JFUND.

DEVELOPED BY:

DATE: 12/22/2015

OFFICE: AJV-5442

NAME: JEFF ANDERSON (DAVID SAUER)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

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:

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: KYSKY

STATE: NY

COUNTRY: US

LATITUDE/LONGITUDE: 404652.75N/0721221.45W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	NANTUCKET	ACK	VOR/DME	H	268.84	253.84	103.40	103.40		18000	45000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J62	1		KBOS	BOSTON	(US)
STAR	OOSHN (RNAV)					MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/20/2012

DEVELOPED BY: DATE: 03/30/2012

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY: DATE: 07/05/2012

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: LEEZI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 424102.21N/0704436.30W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STARUSE TITLE
OOSHN (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:

MOVED FIX 1.36 NM NORTHEAST, FIX NAME RETAINED FOR ATC OPERATIONAL REQUIREMENTS.
UPDATED LAT/LONG.

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

RADIO FIX AND HOLDING DATA RECORD

NAME: LONEY

STATE: OA

COUNTRY: US

LATITUDE/LONGITUDE: 422855.22N/0695442.21W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	S		WP	182.95	002.95	R	10	10000	18000	15	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	SHIP	422855.22N/0695442.21W	208	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

ADDED HOLDING.

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:

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	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:

RADIO FIX AND HOLDING DATA RECORD

NAME: NIKKO

STATE: OA

COUNTRY: US

LATITUDE/LONGITUDE: 424537.41N/0700201.55W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STARUSE TITLE
OOSHN (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 17.03 NM SOUTHEAST, FIX NAME RETAINED FOR ATC OPERATIONAL REQUIREMENTS.
UPDATED LAT/LONG.

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

RADIO FIX AND HOLDING DATA RECORD

NAME: OOSHN

STATE: OA

COUNTRY: US

LATITUDE/LONGITUDE: 423605.44N/0701352.37W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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	E		WP	081.10	261.10	R	20	9000	20000	30	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	WINDMILL (25-022327)	423741.53N/0703857.97W	690	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

ADDED HOLDING RESTRICTION: HOLDING LIMITED TO ESTABLISHED PATTERN.
ADDED REMARK: PRECIPITOUS TERRAIN EVALUATION COMPLETE.

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: PLGRM

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422315.44N/0705119.79W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STARUSE TITLE
OOSHN (RNAV)

FAC

PAT

AIRPORT IDENT
KBOSCITY
BOSTONSTATE
MA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 12/15/2011

DEVELOPED BY:

DATE: 06/23/2011

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:

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 MIN	ALTITUDES 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:

RADIO FIX AND HOLDING DATA RECORD

NAME: PUDJJ

STATE: OA

COUNTRY: US

LATITUDE/LONGITUDE: 422848.58N/0701748.68W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STARUSE TITLE
OOSHN (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: 06/19/2014

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:

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 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

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: RIFLE

STATE: NY

COUNTRY: US

LATITUDE/LONGITUDE: 404124.18N/0723454.89W

TYPE: WP, 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	HAMPTON	HTO	VORTAC	H	234.44	221.44	18.29	18.29		18000	45000
2	ROBBINSVILLE	RBV	VORTAC	H	080.93	070.93	92.38	92.38		18000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

HAMPTON (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J174	1				(US)
EN ROUTE	J62	2				(US)
STAR	OOSHN (RNAV)			KBOS	BOSTON	MA (US)
STAR	DEEPO (RNAV)			KACK	NANTUCKET	MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

1. DELETED CURRENT FAC 1 (SEY), FAC 3 (MVY), AND FAC 4 (ACK).
2. RENUMBERED CURRENT FAC 2 (HTO) TO FAC 1.
3. ADDED NEW FAC 2 (RBV) TO SUPPORT J62.
4. ADDED DIST FROM FAC TO FAC 1 (HTO).
5. UPDATED FIX USE.

DEVELOPED BY:

DATE: 03/30/2012

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 07/05/2012

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: RODEE

STATE: OA

COUNTRY: US

LATITUDE/LONGITUDE: 423558.22N/0695654.94W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STARUSE TITLE
OOSHN (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 6.36 NM EAST, FIX NAME RETAINED FOR ATC OPERATIONAL REQUIREMENTS.
UPDATED LAT/LONG.

DEVELOPED BY:

DATE: 06/20/2014

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: SCITU

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421643.48N/0704538.19W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STARUSE TITLE
JFUND (RNAV)
OOSHN (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: 05/26/2016

REASON FOR REVISION:

UPDATED FIX USE, CHANGED QUABN STAR TO JFUND.

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: SOBAH

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 421414.45N/0700843.28W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STARUSE TITLE
OOSHN (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: 06/20/2014

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: SUFFI

STATE: OA

COUNTRY: US

LATITUDE/LONGITUDE: 430129.66N/0695501.71W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STARUSE TITLE
OOSHN (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 4.26 NM NORTHEAST, FIX NAME RETAINED FOR ATC OPERATIONAL REQUIREMENTS.
UPDATED LAT/LONG.

DEVELOPED BY:

DATE: 06/20/2014

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:

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 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

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: TTERI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423146.46N/0703054.94W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STARUSE TITLE
OOSHN (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 5.08 NM NORTHEAST, FIX NAME RETAINED FOR ATC OPERATIONAL REQUIREMENTS.

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: WAATR

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422728.16N/0704931.96W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STARUSE TITLE
OOSHN (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 0.45 NM NORTH.
UPDATED LAT/LONG.

DEVELOPED BY:

DATE: 06/20/2014

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: